

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: P533813

Luminaire Tested: **GLAN-SA9B-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9B-735-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33011 lumens  
Efficiency: N/A  
Efficacy: 90.7 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

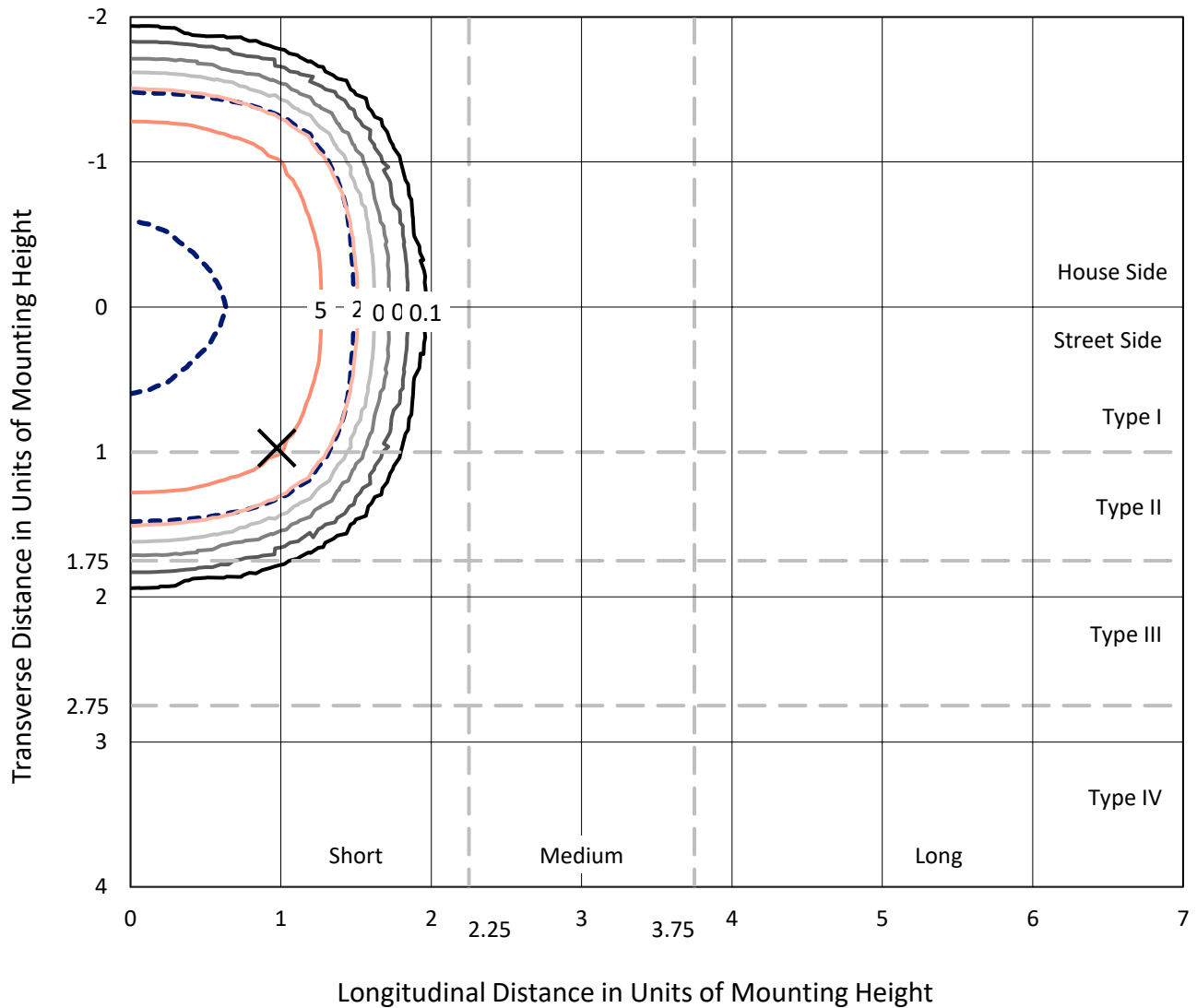
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

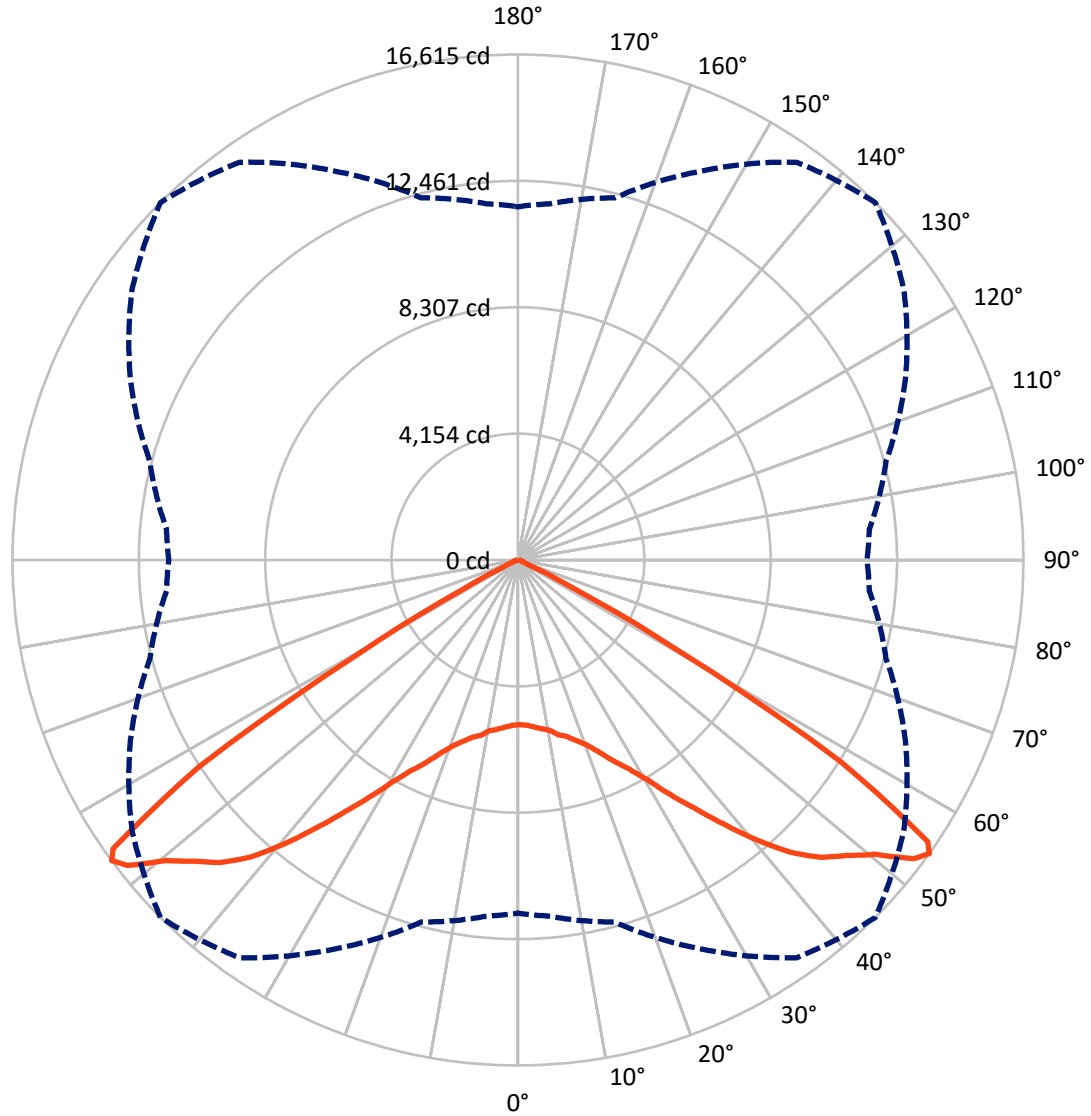
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16505.5  | 0.0    | 16505.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16505.5  | 0.0    | 16505.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 33011.0  | 0.0    | 33011.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 529.8   | 1.6       |
| 10°-20°   | 1715.6  | 5.2       |
| 20°-30°   | 3362.5  | 10.2      |
| 30°-40°   | 6046.6  | 18.3      |
| 40°-50°   | 10350.5 | 31.4      |
| 50°-60°   | 10015.1 | 30.3      |
| 60°-70°   | 857.3   | 2.6       |
| 70°-80°   | 101.6   | 0.3       |
| 80°-90°   | 31.9    | 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°    | 33011.0 | 100.0     |
| 0°-180°   | 33011.0 | 100.0     |

**Coefficient of Utilization**



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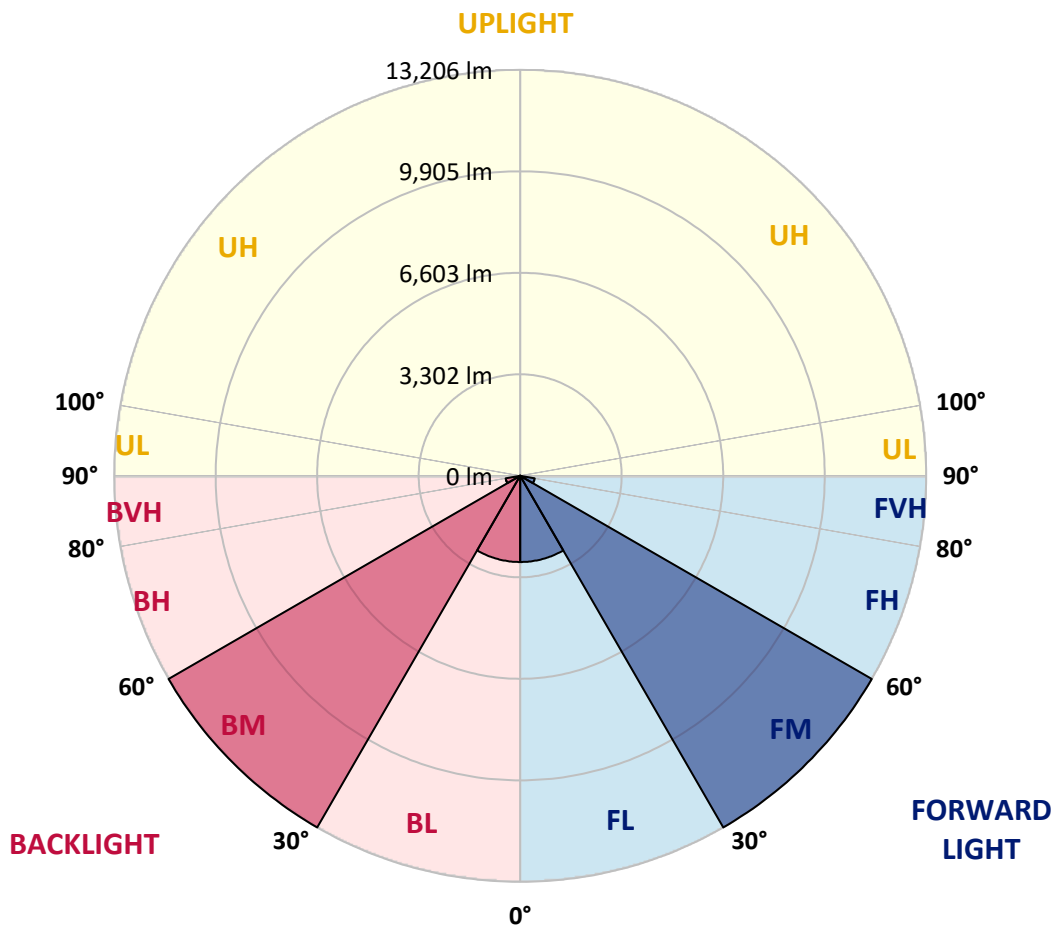
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 2804.0  | 8.5       |                         |      |        |
| FM (30°-60°)   | 13206.1 | 40.0      |                         |      |        |
| FH (60°-80°)   | 479.5   | 1.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 15.9    | 0.0       |                         |      | G1/100 |
| BL (0°-30°)    | 2804.0  | 8.5       | B4/5000                 |      |        |
| BM (30°-60°)   | 13206.1 | 40.0      | B5                      |      |        |
| BH (60°-80°)   | 479.5   | 1.5       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 15.9    | 0.0       |                         |      | 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°    | 5412.8  | 5412.8  | 5412.8  | 5412.8  | 5412.8  | 5412.8  | 5412.8  | 5412.8  | 5412.8  | 5412.8  | 5412.8  |
| 2.5°  | 5438.9  | 5470.3  | 5449.4  | 5465.1  | 5465.1  | 5438.9  | 5454.6  | 5391.9  | 5433.7  | 5402.3  | 5407.5  |
| 5°    | 5522.6  | 5517.4  | 5517.4  | 5522.6  | 5501.7  | 5512.1  | 5491.2  | 5470.3  | 5454.6  | 5433.7  | 5496.5  |
| 7.5°  | 5627.2  | 5627.2  | 5590.6  | 5601.0  | 5590.6  | 5606.3  | 5564.4  | 5522.6  | 5506.9  | 5491.2  | 5480.8  |
| 10°   | 5726.6  | 5716.1  | 5700.4  | 5747.5  | 5710.9  | 5690.0  | 5669.0  | 5642.9  | 5585.4  | 5564.4  | 5543.5  |
| 12.5° | 5873.0  | 5867.8  | 5846.8  | 5893.9  | 5873.0  | 5893.9  | 5815.5  | 5747.5  | 5737.0  | 5669.0  | 5705.6  |
| 15°   | 6045.6  | 6092.6  | 6056.0  | 6056.0  | 6045.6  | 6019.4  | 5988.0  | 5956.7  | 5862.5  | 5836.4  | 5841.6  |
| 17.5° | 6270.5  | 6254.8  | 6260.0  | 6260.0  | 6312.3  | 6244.3  | 6181.5  | 6103.1  | 6056.0  | 6040.3  | 5988.0  |
| 20°   | 6484.9  | 6505.8  | 6500.6  | 6537.2  | 6568.5  | 6495.3  | 6427.3  | 6416.9  | 6286.1  | 6307.1  | 6233.8  |
| 22.5° | 6861.4  | 6845.7  | 6871.9  | 6898.0  | 6877.1  | 6866.6  | 6803.9  | 6725.4  | 6610.4  | 6558.1  | 6547.6  |
| 25°   | 7258.9  | 7232.7  | 7185.7  | 7248.4  | 7279.8  | 7326.9  | 7206.6  | 7164.7  | 6986.9  | 6908.5  | 6913.7  |
| 27.5° | 7598.8  | 7635.4  | 7687.7  | 7713.9  | 7792.3  | 7776.6  | 7692.9  | 7557.0  | 7421.0  | 7332.1  | 7274.6  |
| 30°   | 8064.3  | 8085.2  | 8174.1  | 8210.7  | 8346.7  | 8383.3  | 8252.5  | 8095.6  | 7855.1  | 7740.0  | 7672.0  |
| 32.5° | 8493.1  | 8639.5  | 8634.3  | 8817.3  | 9037.0  | 9188.6  | 8953.3  | 8712.7  | 8472.2  | 8336.2  | 8215.9  |
| 35°   | 9188.6  | 9162.5  | 9314.2  | 9507.7  | 9863.3  | 10035.9 | 9779.6  | 9502.4  | 9136.3  | 8916.7  | 8822.6  |
| 37.5° | 9837.1  | 9847.6  | 10051.6 | 10360.1 | 10768.0 | 11034.7 | 10809.9 | 10354.9 | 9978.3  | 9695.9  | 9565.2  |
| 40°   | 10778.5 | 10799.4 | 11008.6 | 11359.0 | 11819.2 | 12106.8 | 11845.3 | 11385.1 | 10883.1 | 10663.4 | 10663.4 |
| 42.5° | 11882.0 | 11970.9 | 12106.8 | 12410.2 | 12823.3 | 13142.3 | 12907.0 | 12546.1 | 12038.8 | 11756.4 | 11798.3 |
| 45°   | 13016.8 | 13058.6 | 13147.6 | 13597.3 | 13790.8 | 13947.7 | 13728.1 | 13560.7 | 13220.8 | 12875.6 | 12818.1 |
| 47.5° | 14078.4 | 14094.1 | 14355.6 | 14496.8 | 14648.5 | 14517.7 | 14658.9 | 14439.3 | 14057.5 | 13722.8 | 13654.8 |
| 50°   | 14549.1 | 14523.0 | 14894.3 | 15323.1 | 15438.2 | 15208.1 | 15087.8 | 14941.4 | 14360.9 | 13958.2 | 13780.4 |
| 52.5° | 13178.9 | 13330.6 | 14020.9 | 15213.3 | 16112.8 | 16306.3 | 15605.5 | 14930.9 | 13848.3 | 13063.9 | 12943.6 |
| 54°   | 11610.0 | 11751.2 | 12321.3 | 14088.9 | 15961.2 | 16614.9 | 15485.2 | 14052.3 | 12525.2 | 11594.3 | 11474.0 |
| 55°   | 10056.8 | 9899.9  | 10935.4 | 12739.6 | 15249.9 | 16342.9 | 15009.3 | 12917.4 | 11170.7 | 10318.3 | 10150.9 |
| 57.5° | 5444.2  | 5470.3  | 6343.7  | 8048.6  | 10715.7 | 12530.4 | 11066.1 | 8738.9  | 6599.9  | 5642.9  | 5559.2  |
| 60°   | 1725.8  | 1767.7  | 2149.4  | 3252.9  | 5119.9  | 6113.6  | 5240.2  | 3509.2  | 2426.6  | 1945.5  | 1867.0  |
| 62.5° | 538.7   | 559.6   | 611.9   | 910.0   | 1401.6  | 2003.0  | 1568.9  | 941.4   | 700.8   | 643.3   | 653.7   |
| 65°   | 329.5   | 329.5   | 334.7   | 355.6   | 418.4   | 486.4   | 470.7   | 413.1   | 397.5   | 387.0   | 381.8   |
| 67.5° | 214.4   | 209.2   | 219.6   | 235.3   | 245.8   | 251.0   | 266.7   | 282.4   | 277.2   | 266.7   | 266.7   |
| 70°   | 130.7   | 125.5   | 136.0   | 156.9   | 162.1   | 172.6   | 188.3   | 209.2   | 204.0   | 193.5   | 198.7   |
| 72.5° | 73.2    | 73.2    | 78.4    | 94.1    | 109.8   | 120.3   | 136.0   | 151.7   | 156.9   | 151.7   | 151.7   |
| 75°   | 26.1    | 31.4    | 41.8    | 57.5    | 68.0    | 83.7    | 99.4    | 115.1   | 130.7   | 120.3   | 115.1   |
| 77.5° | 10.5    | 10.5    | 20.9    | 36.6    | 52.3    | 68.0    | 94.1    | 109.8   | 120.3   | 109.8   | 99.4    |
| 80°   | 5.2     | 5.2     | 15.7    | 31.4    | 47.1    | 62.8    | 78.4    | 94.1    | 99.4    | 88.9    | 78.4    |
| 82.5° | 5.2     | 5.2     | 15.7    | 31.4    | 47.1    | 57.5    | 83.7    | 94.1    | 104.6   | 94.1    | 78.4    |
| 85°   | 0.0     | 5.2     | 15.7    | 31.4    | 41.8    | 47.1    | 47.1    | 31.4    | 26.1    | 15.7    | 15.7    |
| 87.5° | 0.0     | 0.0     | 5.2     | 0.0     | 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)