

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: P528898

Luminaire Tested: **GLAN-SA4A-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-735-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14875 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

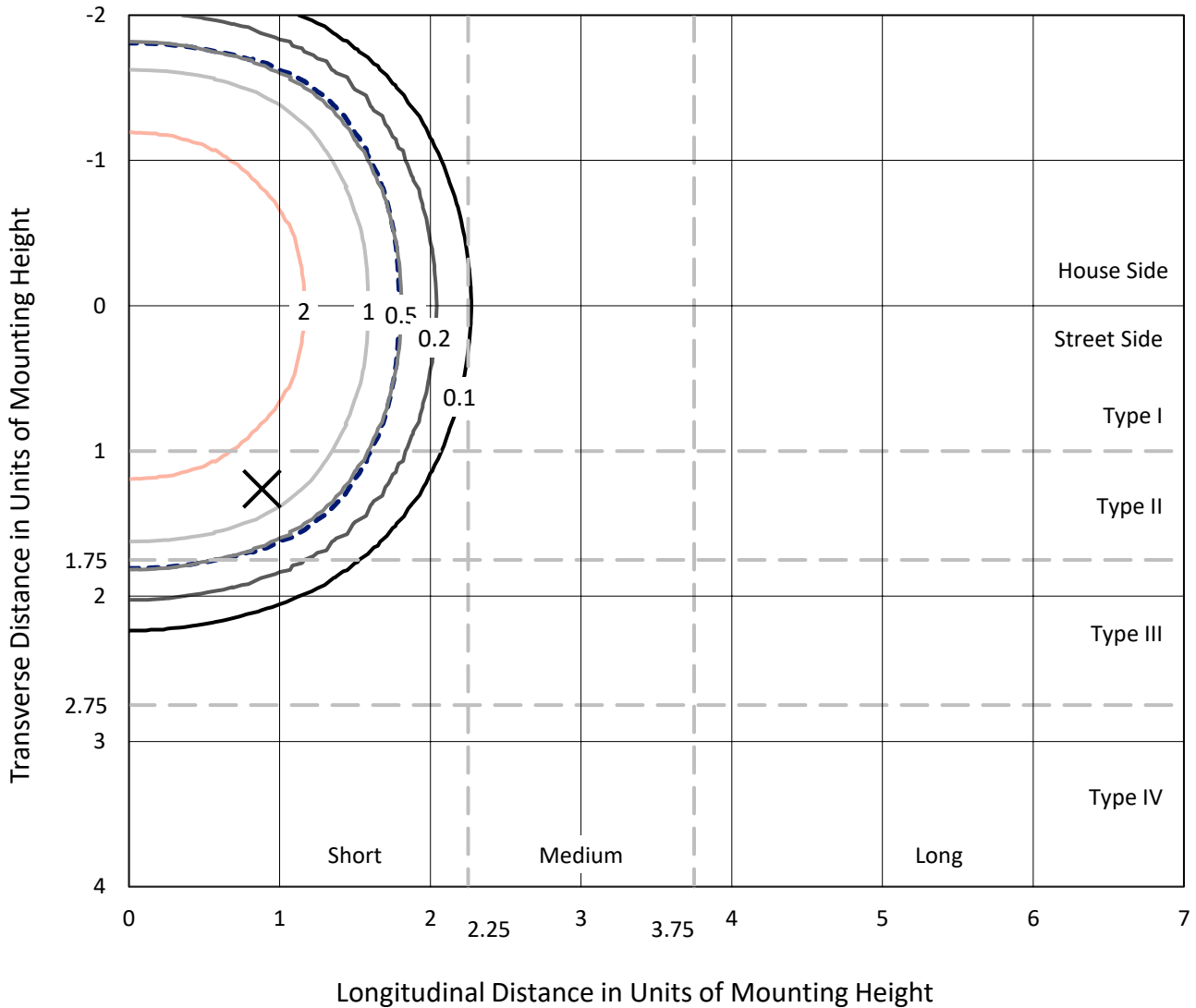
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528898  
 CATALOG NUMBER: GLAN-SA4A-735-U-5MQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

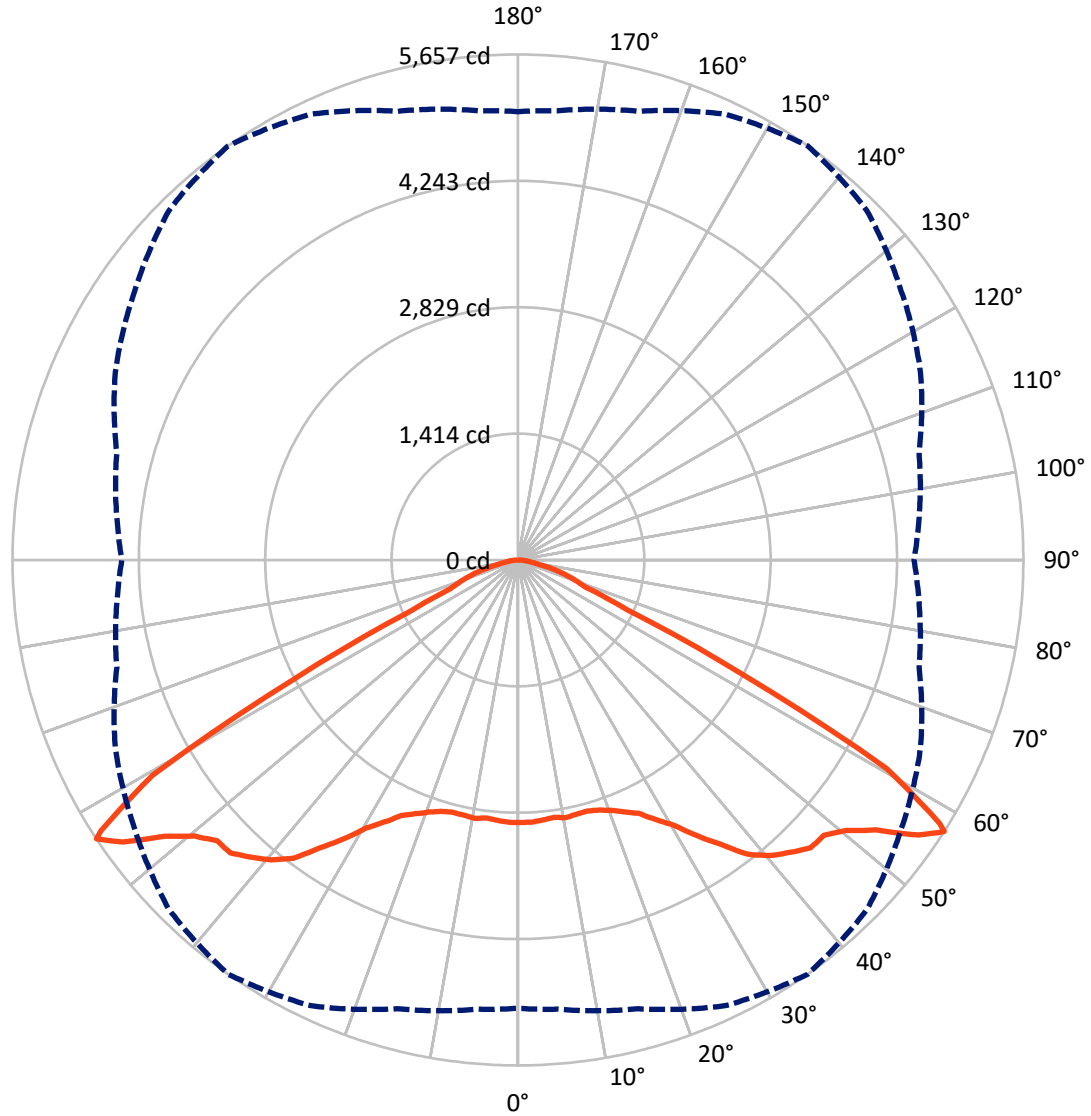
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P528898  
CATALOG NUMBER: GLAN-SA4A-735-U-5MQ-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P528898  
 CATALOG NUMBER: GLAN-SA4A-735-U-5MQ-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7437.5   | 0.0    | 7437.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7437.5   | 0.0    | 7437.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14875.0  | 0.0    | 14875.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 278.5   | 1.9       |
| 10°-20°   | 824.9   | 5.5       |
| 20°-30°   | 1440.6  | 9.7       |
| 30°-40°   | 2360.5  | 15.9      |
| 40°-50°   | 3461.0  | 23.3      |
| 50°-60°   | 4359.4  | 29.3      |
| 60°-70°   | 1639.5  | 11.0      |
| 70°-80°   | 435.9   | 2.9       |
| 80°-90°   | 74.7    | 0.5       |
| 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°    | 14875.0 | 100.0     |
| 0°-180°   | 14875.0 | 100.0     |



REPORT NUMBER: P528898

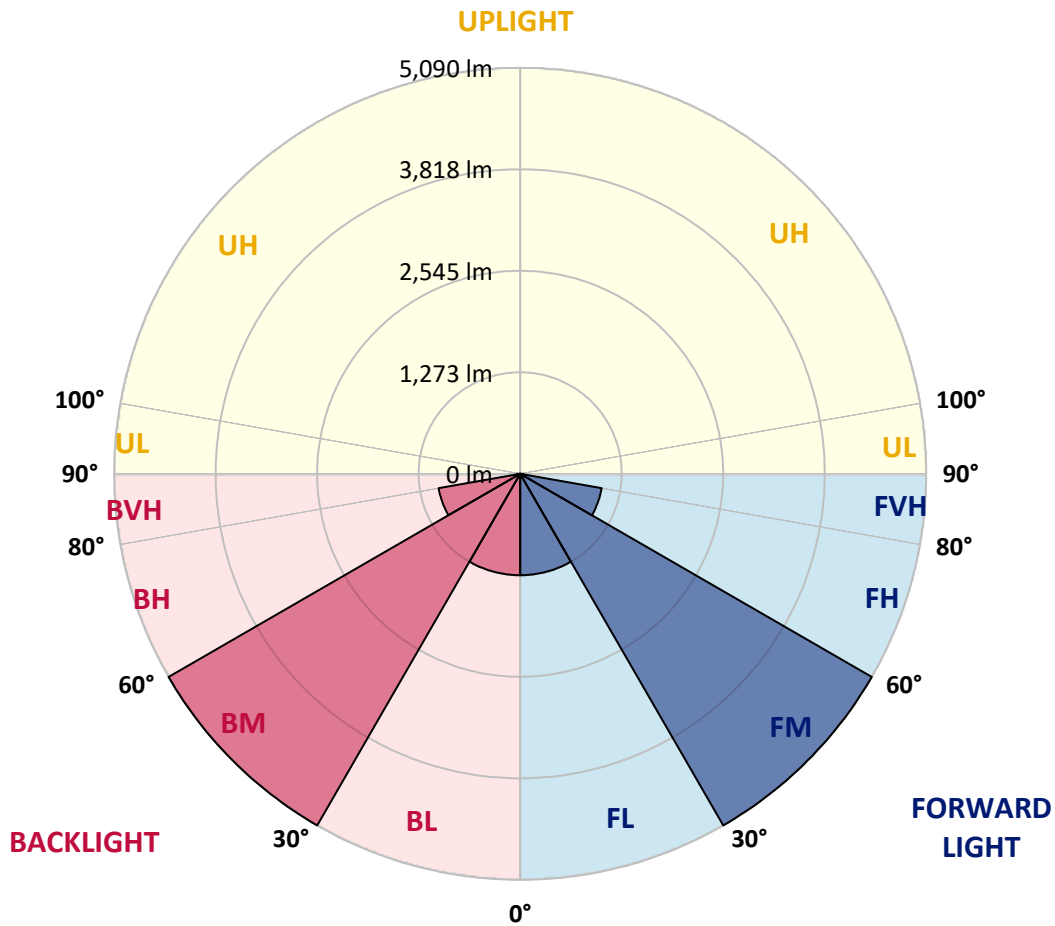
CATALOG NUMBER: GLAN-SA4A-735-U-5MQ-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1272.0 | 8.6       |                         |      |         |
| FM (30°-60°)   | 5090.4 | 34.2      |                         |      |         |
| FH (60°-80°)   | 1037.7 | 7.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 37.4   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1272.0 | 8.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 5090.4 | 34.2      | B4/8500                 |      |         |
| BH (60°-80°)   | 1037.7 | 7.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 37.4   | 0.3       |                         |      | G1/100  |
| 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





REPORT NUMBER: P528898

CATALOG NUMBER: GLAN-SA4A-735-U-5MQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2937.7 | 2937.7 | 2937.7 | 2937.7 | 2937.7 | 2937.7 | 2937.7 | 2937.7 | 2937.7 | 2937.7 | 2937.7 |
| 2.5°  | 2923.0 | 2952.4 | 2939.5 | 2932.2 | 2937.7 | 2928.5 | 2913.9 | 2930.4 | 2926.7 | 2912.0 | 2906.5 |
| 5°    | 2915.7 | 2937.7 | 2923.0 | 2937.7 | 2923.0 | 2948.7 | 2941.4 | 2913.9 | 2946.9 | 2915.7 | 2926.7 |
| 7.5°  | 2910.2 | 2917.5 | 2921.2 | 2913.9 | 2908.4 | 2939.5 | 2923.0 | 2910.2 | 2891.9 | 2886.4 | 2895.6 |
| 10°   | 2897.4 | 2915.7 | 2888.2 | 2924.9 | 2932.2 | 2910.2 | 2910.2 | 2886.4 | 2871.7 | 2862.6 | 2893.7 |
| 12.5° | 2930.4 | 2899.2 | 2895.6 | 2913.9 | 2919.4 | 2928.5 | 2902.9 | 2890.1 | 2862.6 | 2866.2 | 2860.7 |
| 15°   | 2891.9 | 2904.7 | 2906.5 | 2910.2 | 2915.7 | 2937.7 | 2913.9 | 2886.4 | 2875.4 | 2836.9 | 2840.6 |
| 17.5° | 2906.5 | 2893.7 | 2906.5 | 2948.7 | 2941.4 | 2957.9 | 2932.2 | 2890.1 | 2864.4 | 2842.4 | 2871.7 |
| 20°   | 2932.2 | 2926.7 | 2932.2 | 2983.5 | 2992.7 | 3007.3 | 2985.4 | 2946.9 | 2897.4 | 2871.7 | 2886.4 |
| 22.5° | 2959.7 | 2956.0 | 2959.7 | 3009.2 | 3062.3 | 3080.6 | 3058.7 | 2968.9 | 2943.2 | 2895.6 | 2879.1 |
| 25°   | 3009.2 | 3012.8 | 3051.3 | 3106.3 | 3141.1 | 3175.9 | 3135.6 | 3071.5 | 2989.0 | 2959.7 | 2924.9 |
| 27.5° | 3119.1 | 3128.3 | 3150.3 | 3230.9 | 3291.4 | 3322.6 | 3265.7 | 3177.8 | 3126.5 | 3066.0 | 3056.8 |
| 30°   | 3254.7 | 3254.7 | 3293.2 | 3362.9 | 3445.3 | 3493.0 | 3423.3 | 3318.9 | 3256.6 | 3223.6 | 3203.4 |
| 32.5° | 3434.3 | 3414.2 | 3428.8 | 3551.6 | 3679.9 | 3720.2 | 3626.8 | 3498.5 | 3399.5 | 3355.5 | 3340.9 |
| 35°   | 3588.3 | 3601.1 | 3634.1 | 3766.1 | 3909.0 | 4002.5 | 3855.8 | 3689.1 | 3588.3 | 3548.0 | 3540.6 |
| 37.5° | 3788.0 | 3810.0 | 3826.5 | 4008.0 | 4180.2 | 4215.0 | 4073.9 | 3940.2 | 3817.4 | 3784.4 | 3766.1 |
| 40°   | 4070.3 | 4055.6 | 4061.1 | 4194.9 | 4350.7 | 4372.7 | 4233.4 | 4138.1 | 4037.3 | 4017.1 | 4017.1 |
| 42.5° | 4303.0 | 4286.5 | 4304.8 | 4354.3 | 4473.4 | 4457.0 | 4380.0 | 4310.3 | 4268.2 | 4246.2 | 4268.2 |
| 45°   | 4444.1 | 4440.5 | 4473.4 | 4510.1 | 4594.4 | 4539.4 | 4478.9 | 4489.9 | 4449.6 | 4413.0 | 4411.1 |
| 47.5° | 4598.1 | 4574.2 | 4614.6 | 4669.5 | 4605.4 | 4579.7 | 4576.1 | 4599.9 | 4587.1 | 4522.9 | 4502.8 |
| 50°   | 4673.2 | 4664.0 | 4728.2 | 4792.3 | 4757.5 | 4698.9 | 4711.7 | 4750.2 | 4585.2 | 4499.1 | 4449.6 |
| 52.5° | 4874.8 | 4876.6 | 4999.4 | 5034.2 | 5019.6 | 4933.4 | 4960.9 | 4856.5 | 4662.2 | 4541.3 | 4546.8 |
| 55°   | 5191.8 | 5179.0 | 5316.5 | 5419.1 | 5435.6 | 5325.6 | 5193.7 | 5047.1 | 4803.3 | 4680.5 | 4643.9 |
| 57°   | 5017.7 | 5047.1 | 5199.2 | 5503.4 | 5657.3 | 5527.2 | 5239.5 | 4971.9 | 4647.5 | 4499.1 | 4433.1 |
| 57.5° | 4785.0 | 4832.6 | 5096.5 | 5402.6 | 5563.9 | 5552.9 | 5182.7 | 4832.6 | 4543.1 | 4312.2 | 4317.7 |
| 60°   | 3505.8 | 3515.0 | 3753.2 | 4238.9 | 4742.8 | 4753.8 | 4303.0 | 3839.4 | 3516.8 | 3265.7 | 3300.6 |
| 62.5° | 1849.1 | 1891.3 | 1986.6 | 2376.9 | 2813.1 | 2919.4 | 2646.3 | 2408.1 | 2129.5 | 1938.9 | 1957.2 |
| 65°   | 978.6  | 973.1  | 1018.9 | 1128.9 | 1343.3 | 1398.3 | 1361.6 | 1172.9 | 1075.8 | 1044.6 | 1046.4 |
| 67.5° | 795.4  | 804.5  | 799.0  | 804.5  | 819.2  | 843.0  | 837.5  | 844.8  | 850.3  | 859.5  | 857.7  |
| 70°   | 674.4  | 674.4  | 678.1  | 679.9  | 679.9  | 690.9  | 703.7  | 727.6  | 729.4  | 738.5  | 742.2  |
| 72.5° | 531.5  | 527.8  | 533.3  | 546.1  | 548.0  | 557.1  | 575.4  | 590.1  | 595.6  | 595.6  | 584.6  |
| 75°   | 361.0  | 364.7  | 372.0  | 383.0  | 394.0  | 410.5  | 425.2  | 434.3  | 438.0  | 432.5  | 427.0  |
| 77.5° | 203.4  | 207.1  | 212.6  | 229.1  | 241.9  | 256.6  | 273.1  | 282.2  | 291.4  | 293.2  | 282.2  |
| 80°   | 121.0  | 121.0  | 130.1  | 142.9  | 157.6  | 172.3  | 186.9  | 197.9  | 201.6  | 201.6  | 196.1  |
| 82.5° | 73.3   | 75.1   | 82.5   | 95.3   | 108.1  | 117.3  | 130.1  | 139.3  | 146.6  | 144.8  | 141.1  |
| 85°   | 38.5   | 38.5   | 45.8   | 56.8   | 66.0   | 75.1   | 75.1   | 69.6   | 66.0   | 56.8   | 53.1   |
| 87.5° | 12.8   | 11.0   | 14.7   | 14.7   | 12.8   | 14.7   | 14.7   | 16.5   | 16.5   | 16.5   | 16.5   |
| 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)