

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: McGRAW-EDISON

Report Number: P527131

Luminaire Tested: **GALN-SA2A-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527131
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: McGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA 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: 4644 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

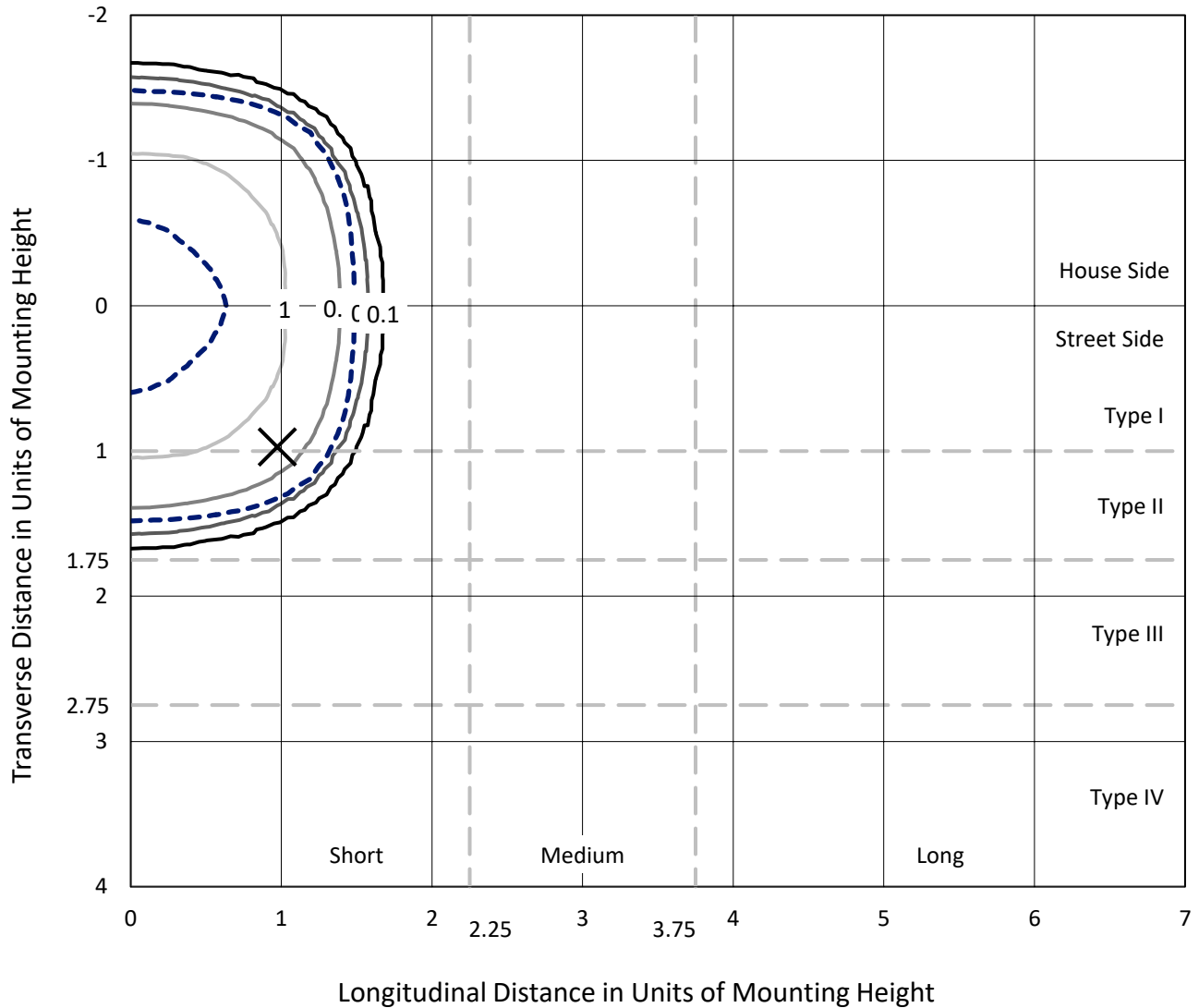
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

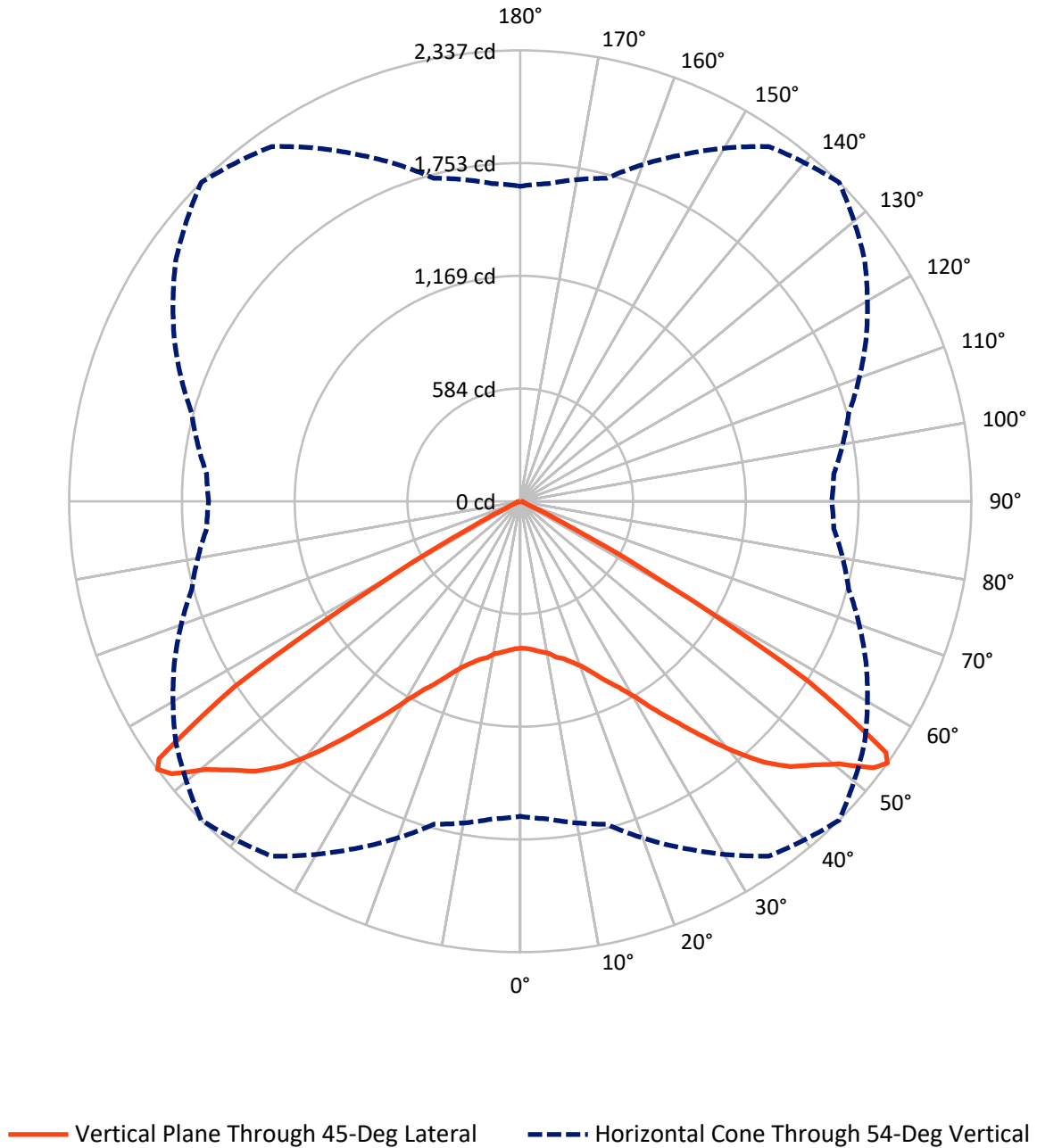
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2322.0 | 0.0 | 2322.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2322.0 | 0.0 | 2322.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4644.0 | 0.0 | 4644.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.5 | 1.6 |
| 10°-20° | 241.4 | 5.2 |
| 20°-30° | 473.0 | 10.2 |
| 30°-40° | 850.6 | 18.3 |
| 40°-50° | 1456.1 | 31.4 |
| 50°-60° | 1408.9 | 30.3 |
| 60°-70° | 120.6 | 2.6 |
| 70°-80° | 14.3 | 0.3 |
| 80°-90° | 4.5 | 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° | 4644.0 | 100.0 |
| 0°-180° | 4644.0 | 100.0 |

Coefficient of Utilization



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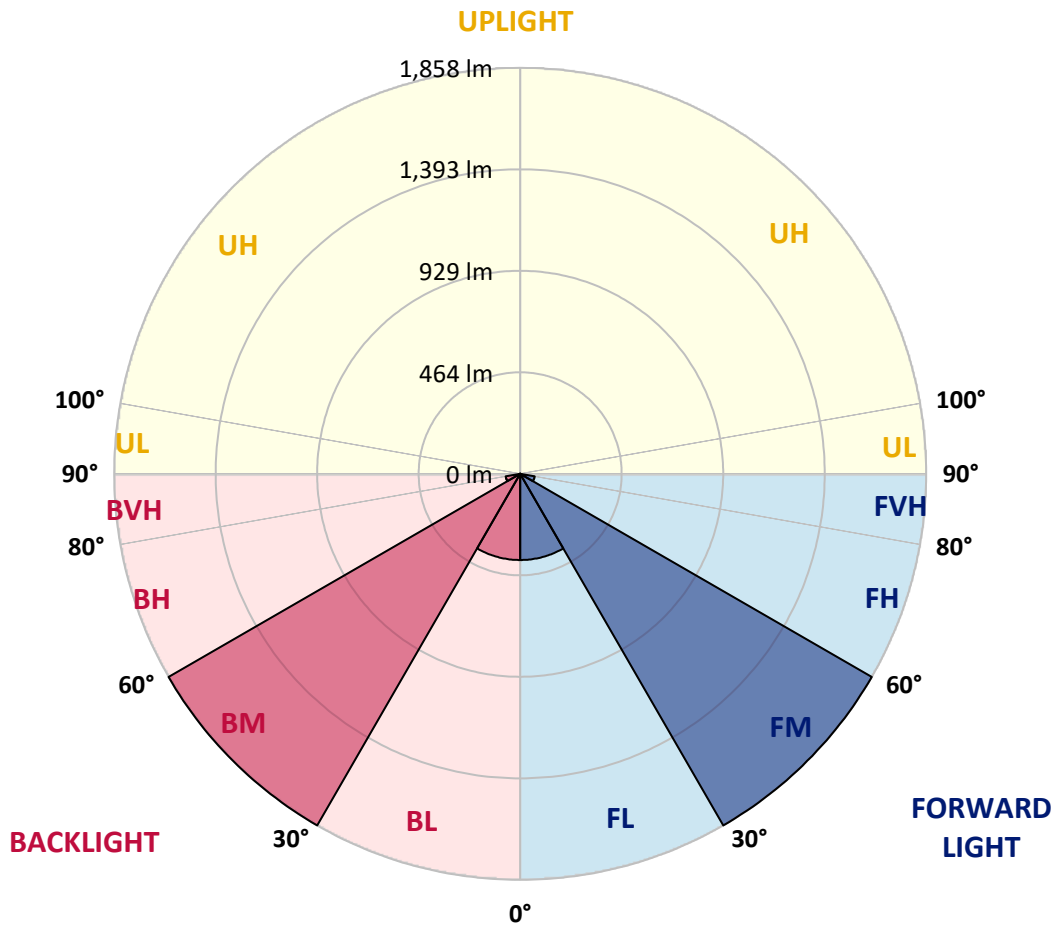
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 394.5 | 8.5 | | | |
| FM (30°-60°) | 1857.8 | 40.0 | | | |
| FH (60°-80°) | 67.5 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 394.5 | 8.5 | B1/500 | | |
| BM (30°-60°) | 1857.8 | 40.0 | B2/2500 | | |
| BH (60°-80°) | 67.5 | 1.5 | B0/110 | | G0/660 |
| BVH (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 761.5 | 761.5 | 761.5 | 761.5 | 761.5 | 761.5 | 761.5 | 761.5 | 761.5 | 761.5 | 761.5 |
| 2.5° | 765.1 | 769.6 | 766.6 | 768.8 | 768.8 | 765.1 | 767.4 | 758.5 | 764.4 | 760.0 | 760.7 |
| 5° | 776.9 | 776.2 | 776.2 | 776.9 | 774.0 | 775.5 | 772.5 | 769.6 | 767.4 | 764.4 | 773.2 |
| 7.5° | 791.6 | 791.6 | 786.5 | 788.0 | 786.5 | 788.7 | 782.8 | 776.9 | 774.7 | 772.5 | 771.0 |
| 10° | 805.6 | 804.1 | 801.9 | 808.6 | 803.4 | 800.5 | 797.5 | 793.8 | 785.8 | 782.8 | 779.9 |
| 12.5° | 826.2 | 825.5 | 822.5 | 829.2 | 826.2 | 829.2 | 818.1 | 808.6 | 807.1 | 797.5 | 802.7 |
| 15° | 850.5 | 857.1 | 852.0 | 852.0 | 850.5 | 846.8 | 842.4 | 838.0 | 824.7 | 821.1 | 821.8 |
| 17.5° | 882.1 | 879.9 | 880.7 | 880.7 | 888.0 | 878.5 | 869.6 | 858.6 | 852.0 | 849.8 | 842.4 |
| 20° | 912.3 | 915.2 | 914.5 | 919.7 | 924.1 | 913.8 | 904.2 | 902.7 | 884.3 | 887.3 | 877.0 |
| 22.5° | 965.3 | 963.1 | 966.7 | 970.4 | 967.5 | 966.0 | 957.2 | 946.1 | 930.0 | 922.6 | 921.1 |
| 25° | 1021.2 | 1017.5 | 1010.9 | 1019.7 | 1024.1 | 1030.7 | 1013.8 | 1007.9 | 982.9 | 971.9 | 972.6 |
| 27.5° | 1069.0 | 1074.2 | 1081.5 | 1085.2 | 1096.2 | 1094.0 | 1082.2 | 1063.1 | 1044.0 | 1031.5 | 1023.4 |
| 30° | 1134.5 | 1137.4 | 1149.9 | 1155.1 | 1174.2 | 1179.4 | 1161.0 | 1138.9 | 1105.1 | 1088.9 | 1079.3 |
| 32.5° | 1194.8 | 1215.4 | 1214.7 | 1240.4 | 1271.3 | 1292.7 | 1259.6 | 1225.7 | 1191.9 | 1172.7 | 1155.8 |
| 35° | 1292.7 | 1289.0 | 1310.3 | 1337.5 | 1387.6 | 1411.8 | 1375.8 | 1336.8 | 1285.3 | 1254.4 | 1241.2 |
| 37.5° | 1383.9 | 1385.4 | 1414.1 | 1457.5 | 1514.8 | 1552.4 | 1520.7 | 1456.7 | 1403.8 | 1364.0 | 1345.6 |
| 40° | 1516.3 | 1519.3 | 1548.7 | 1598.0 | 1662.7 | 1703.2 | 1666.4 | 1601.7 | 1531.0 | 1500.1 | 1500.1 |
| 42.5° | 1671.6 | 1684.1 | 1703.2 | 1745.9 | 1804.0 | 1848.9 | 1815.8 | 1765.0 | 1693.6 | 1653.9 | 1659.8 |
| 45° | 1831.2 | 1837.1 | 1849.6 | 1912.9 | 1940.1 | 1962.2 | 1931.3 | 1907.7 | 1859.9 | 1811.3 | 1803.3 |
| 47.5° | 1980.6 | 1982.8 | 2019.6 | 2039.4 | 2060.8 | 2042.4 | 2062.2 | 2031.3 | 1977.6 | 1930.5 | 1921.0 |
| 50° | 2046.8 | 2043.1 | 2095.3 | 2155.7 | 2171.8 | 2139.5 | 2122.6 | 2102.0 | 2020.3 | 1963.6 | 1938.6 |
| 52.5° | 1854.0 | 1875.4 | 1972.5 | 2140.2 | 2266.8 | 2294.0 | 2195.4 | 2100.5 | 1948.2 | 1837.8 | 1820.9 |
| 54° | 1633.3 | 1653.2 | 1733.4 | 1982.0 | 2245.4 | 2337.4 | 2178.5 | 1976.9 | 1762.1 | 1631.1 | 1614.2 |
| 55° | 1414.8 | 1392.7 | 1538.4 | 1792.2 | 2145.4 | 2299.1 | 2111.5 | 1817.2 | 1571.5 | 1451.6 | 1428.0 |
| 57.5° | 765.9 | 769.6 | 892.4 | 1132.3 | 1507.5 | 1762.8 | 1556.8 | 1229.4 | 928.5 | 793.8 | 782.1 |
| 60° | 242.8 | 248.7 | 302.4 | 457.6 | 720.3 | 860.1 | 737.2 | 493.7 | 341.4 | 273.7 | 262.7 |
| 62.5° | 75.8 | 78.7 | 86.1 | 128.0 | 197.2 | 281.8 | 220.7 | 132.4 | 98.6 | 90.5 | 92.0 |
| 65° | 46.4 | 46.4 | 47.1 | 50.0 | 58.9 | 68.4 | 66.2 | 58.1 | 55.9 | 54.4 | 53.7 |
| 67.5° | 30.2 | 29.4 | 30.9 | 33.1 | 34.6 | 35.3 | 37.5 | 39.7 | 39.0 | 37.5 | 37.5 |
| 70° | 18.4 | 17.7 | 19.1 | 22.1 | 22.8 | 24.3 | 26.5 | 29.4 | 28.7 | 27.2 | 28.0 |
| 72.5° | 10.3 | 10.3 | 11.0 | 13.2 | 15.5 | 16.9 | 19.1 | 21.3 | 22.1 | 21.3 | 21.3 |
| 75° | 3.7 | 4.4 | 5.9 | 8.1 | 9.6 | 11.8 | 14.0 | 16.2 | 18.4 | 16.9 | 16.2 |
| 77.5° | 1.5 | 1.5 | 2.9 | 5.2 | 7.4 | 9.6 | 13.2 | 15.5 | 16.9 | 15.5 | 14.0 |
| 80° | 0.7 | 0.7 | 2.2 | 4.4 | 6.6 | 8.8 | 11.0 | 13.2 | 14.0 | 12.5 | 11.0 |
| 82.5° | 0.7 | 0.7 | 2.2 | 4.4 | 6.6 | 8.1 | 11.8 | 13.2 | 14.7 | 13.2 | 11.0 |
| 85° | 0.0 | 0.7 | 2.2 | 4.4 | 5.9 | 6.6 | 6.6 | 4.4 | 3.7 | 2.2 | 2.2 |
| 87.5° | 0.0 | 0.0 | 0.7 | 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)