

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: P316466

Luminaire Tested: **GAN-SA2A-740-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10015 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

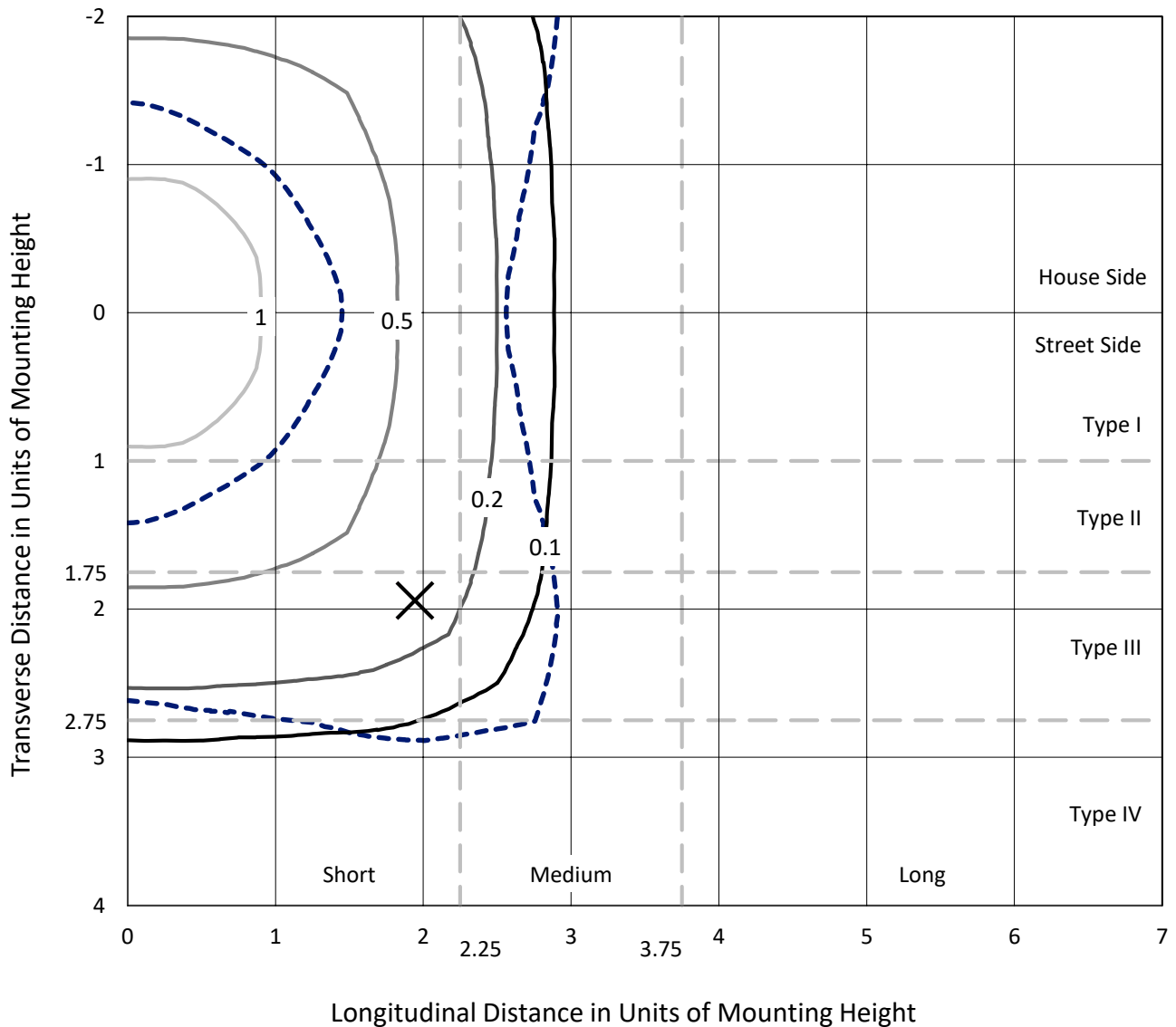
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

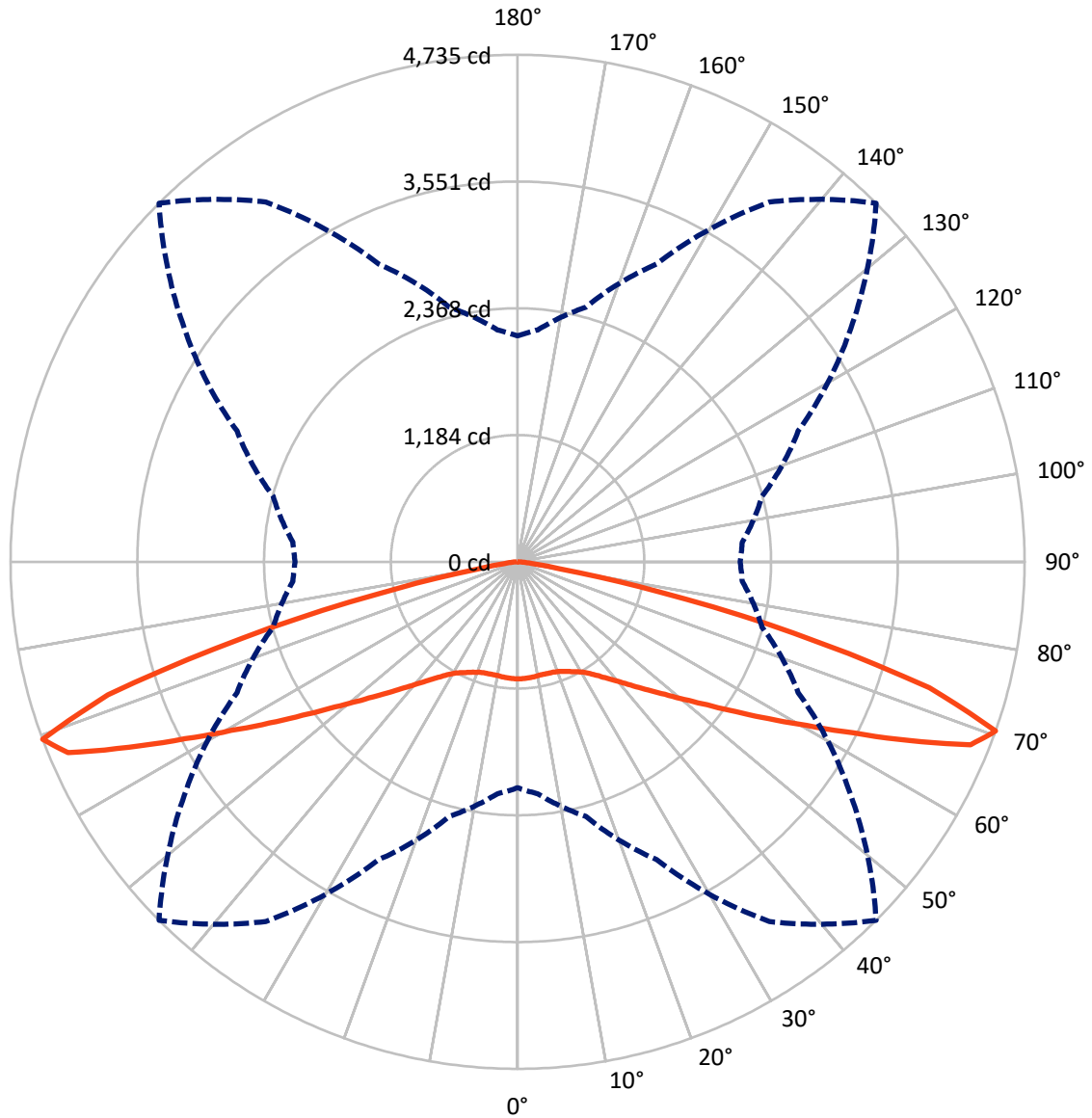
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5007.5 | 0.0 | 5007.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5007.5 | 0.0 | 5007.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10015.0 | 0.0 | 10015.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 103.6 | 1.0 |
| 10°-20° | 304.1 | 3.0 |
| 20°-30° | 517.7 | 5.2 |
| 30°-40° | 821.1 | 8.2 |
| 40°-50° | 1336.2 | 13.3 |
| 50°-60° | 2203.1 | 22.0 |
| 60°-70° | 3234.2 | 32.3 |
| 70°-80° | 1430.2 | 14.3 |
| 80°-90° | 64.8 | 0.6 |
| 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° | 10015.0 | 100.0 |
| 0°-180° | 10015.0 | 100.0 |

Coefficient of Utilization



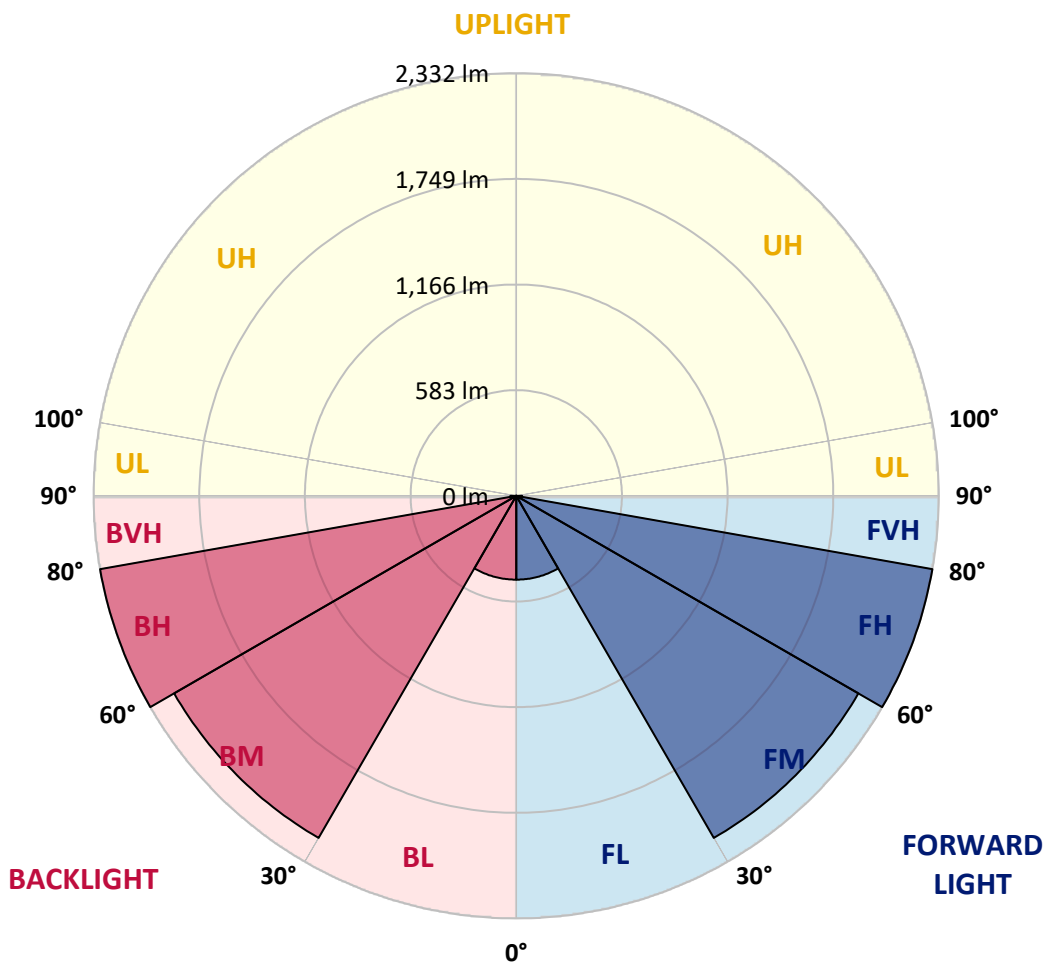
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 462.7 | 4.6 | | | |
| FM (30°-60°) | 2180.2 | 21.8 | | | |
| FH (60°-80°) | 2332.2 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 32.4 | 0.3 | | | G1/100 |
| BL (0°-30°) | 462.7 | 4.6 | B1/500 | | |
| BM (30°-60°) | 2180.2 | 21.8 | B2/2500 | | |
| BH (60°-80°) | 2332.2 | 23.3 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 32.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1093.8 | 1093.8 | 1093.8 | 1093.8 | 1093.8 | 1093.8 | 1093.8 | 1093.8 | 1093.8 | 1093.8 | 1093.8 |
| 2.5° | 1092.1 | 1091.1 | 1093.5 | 1093.1 | 1091.1 | 1091.5 | 1091.5 | 1092.5 | 1092.5 | 1091.8 | 1091.8 |
| 5° | 1088.2 | 1087.5 | 1090.1 | 1090.1 | 1088.2 | 1088.8 | 1089.5 | 1090.5 | 1090.1 | 1089.5 | 1089.2 |
| 7.5° | 1083.2 | 1082.9 | 1085.5 | 1085.5 | 1084.2 | 1084.8 | 1084.2 | 1084.5 | 1083.9 | 1083.2 | 1082.2 |
| 10° | 1074.9 | 1075.6 | 1077.9 | 1078.5 | 1078.5 | 1078.9 | 1078.2 | 1076.6 | 1075.6 | 1074.6 | 1073.6 |
| 12.5° | 1067.3 | 1066.9 | 1070.3 | 1071.9 | 1074.6 | 1077.6 | 1075.6 | 1070.9 | 1068.9 | 1066.9 | 1066.3 |
| 15° | 1062.3 | 1062.6 | 1066.0 | 1068.9 | 1073.6 | 1079.9 | 1077.6 | 1070.3 | 1066.3 | 1064.0 | 1063.3 |
| 17.5° | 1061.3 | 1062.0 | 1066.3 | 1071.6 | 1076.6 | 1083.5 | 1082.2 | 1074.9 | 1068.3 | 1064.0 | 1063.0 |
| 20° | 1063.6 | 1064.0 | 1070.6 | 1078.2 | 1086.8 | 1093.5 | 1090.5 | 1082.5 | 1073.6 | 1066.9 | 1065.3 |
| 22.5° | 1067.9 | 1069.3 | 1077.6 | 1089.5 | 1102.7 | 1111.7 | 1108.0 | 1094.5 | 1080.5 | 1072.2 | 1069.9 |
| 25° | 1081.5 | 1081.9 | 1093.1 | 1109.4 | 1125.3 | 1135.6 | 1131.2 | 1112.0 | 1094.1 | 1084.8 | 1081.9 |
| 27.5° | 1109.7 | 1110.7 | 1122.0 | 1140.9 | 1154.4 | 1161.1 | 1158.4 | 1142.8 | 1127.6 | 1117.7 | 1118.7 |
| 30° | 1150.5 | 1151.8 | 1164.4 | 1185.3 | 1193.6 | 1195.2 | 1194.6 | 1187.3 | 1173.3 | 1160.1 | 1161.1 |
| 32.5° | 1200.2 | 1200.9 | 1217.8 | 1236.6 | 1243.3 | 1244.6 | 1243.3 | 1236.6 | 1220.1 | 1202.2 | 1203.2 |
| 35° | 1264.2 | 1266.1 | 1282.4 | 1300.6 | 1305.9 | 1308.6 | 1306.3 | 1297.6 | 1280.4 | 1262.8 | 1262.2 |
| 37.5° | 1343.0 | 1343.4 | 1360.3 | 1379.2 | 1385.8 | 1386.5 | 1383.8 | 1378.2 | 1356.6 | 1340.7 | 1339.7 |
| 40° | 1434.5 | 1435.9 | 1455.7 | 1476.0 | 1478.6 | 1475.6 | 1479.3 | 1476.0 | 1453.8 | 1435.5 | 1438.5 |
| 42.5° | 1545.9 | 1548.9 | 1572.7 | 1592.6 | 1585.0 | 1583.3 | 1585.7 | 1586.7 | 1568.8 | 1546.6 | 1544.6 |
| 45° | 1675.5 | 1678.1 | 1708.0 | 1723.9 | 1718.9 | 1708.0 | 1712.6 | 1720.6 | 1695.7 | 1668.2 | 1670.9 |
| 47.5° | 1823.3 | 1830.0 | 1861.8 | 1876.7 | 1864.4 | 1849.5 | 1858.5 | 1870.4 | 1841.2 | 1807.1 | 1805.4 |
| 50° | 1987.7 | 1996.0 | 2038.4 | 2059.3 | 2047.1 | 2019.5 | 2034.5 | 2042.4 | 2000.3 | 1956.2 | 1952.6 |
| 52.5° | 2163.1 | 2171.3 | 2224.7 | 2267.8 | 2259.8 | 2217.1 | 2238.0 | 2229.7 | 2181.3 | 2122.0 | 2117.3 |
| 55° | 2361.6 | 2364.9 | 2422.6 | 2492.2 | 2500.1 | 2468.7 | 2467.3 | 2453.7 | 2382.2 | 2313.5 | 2310.2 |
| 57.5° | 2565.8 | 2568.1 | 2642.7 | 2724.9 | 2762.3 | 2762.3 | 2725.2 | 2696.4 | 2601.2 | 2521.7 | 2513.4 |
| 60° | 2786.2 | 2794.5 | 2877.0 | 2988.7 | 3076.2 | 3102.1 | 3036.4 | 2957.9 | 2854.5 | 2757.4 | 2747.7 |
| 62.5° | 2982.4 | 2992.0 | 3118.3 | 3284.7 | 3425.2 | 3519.4 | 3358.9 | 3231.0 | 3042.7 | 2887.0 | 2868.7 |
| 65° | 3007.3 | 3033.1 | 3217.1 | 3518.4 | 3832.9 | 4020.9 | 3713.3 | 3398.1 | 3055.0 | 2838.6 | 2820.0 |
| 67.5° | 2746.4 | 2790.2 | 3038.8 | 3507.8 | 4157.7 | 4561.1 | 3939.6 | 3302.6 | 2834.9 | 2595.6 | 2575.1 |
| 70° | 2110.4 | 2174.0 | 2460.7 | 3068.3 | 4101.7 | 4735.1 | 3797.8 | 2891.3 | 2363.6 | 2106.1 | 2077.2 |
| 72.5° | 1157.8 | 1183.9 | 1441.8 | 2101.1 | 3288.3 | 4023.8 | 3167.7 | 2137.9 | 1567.4 | 1275.4 | 1227.0 |
| 75° | 367.2 | 376.5 | 507.8 | 859.8 | 1860.1 | 2665.2 | 2012.2 | 1049.4 | 577.7 | 425.9 | 420.9 |
| 77.5° | 163.1 | 164.1 | 183.6 | 250.9 | 640.7 | 1350.3 | 769.6 | 285.7 | 196.9 | 172.0 | 177.7 |
| 80° | 103.1 | 103.1 | 113.7 | 124.3 | 174.3 | 392.1 | 208.2 | 135.9 | 116.0 | 107.7 | 110.0 |
| 82.5° | 49.4 | 54.7 | 73.9 | 79.5 | 95.8 | 131.9 | 106.7 | 88.8 | 77.6 | 57.7 | 53.7 |
| 85° | 32.5 | 27.2 | 46.7 | 52.7 | 55.7 | 63.3 | 62.0 | 58.7 | 50.7 | 28.8 | 32.2 |
| 87.5° | 14.6 | 13.9 | 24.2 | 22.2 | 20.9 | 15.9 | 23.9 | 29.5 | 28.5 | 14.3 | 14.3 |
| 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)