

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: P451524

Luminaire Tested: **GLAN-SA2B-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9537 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

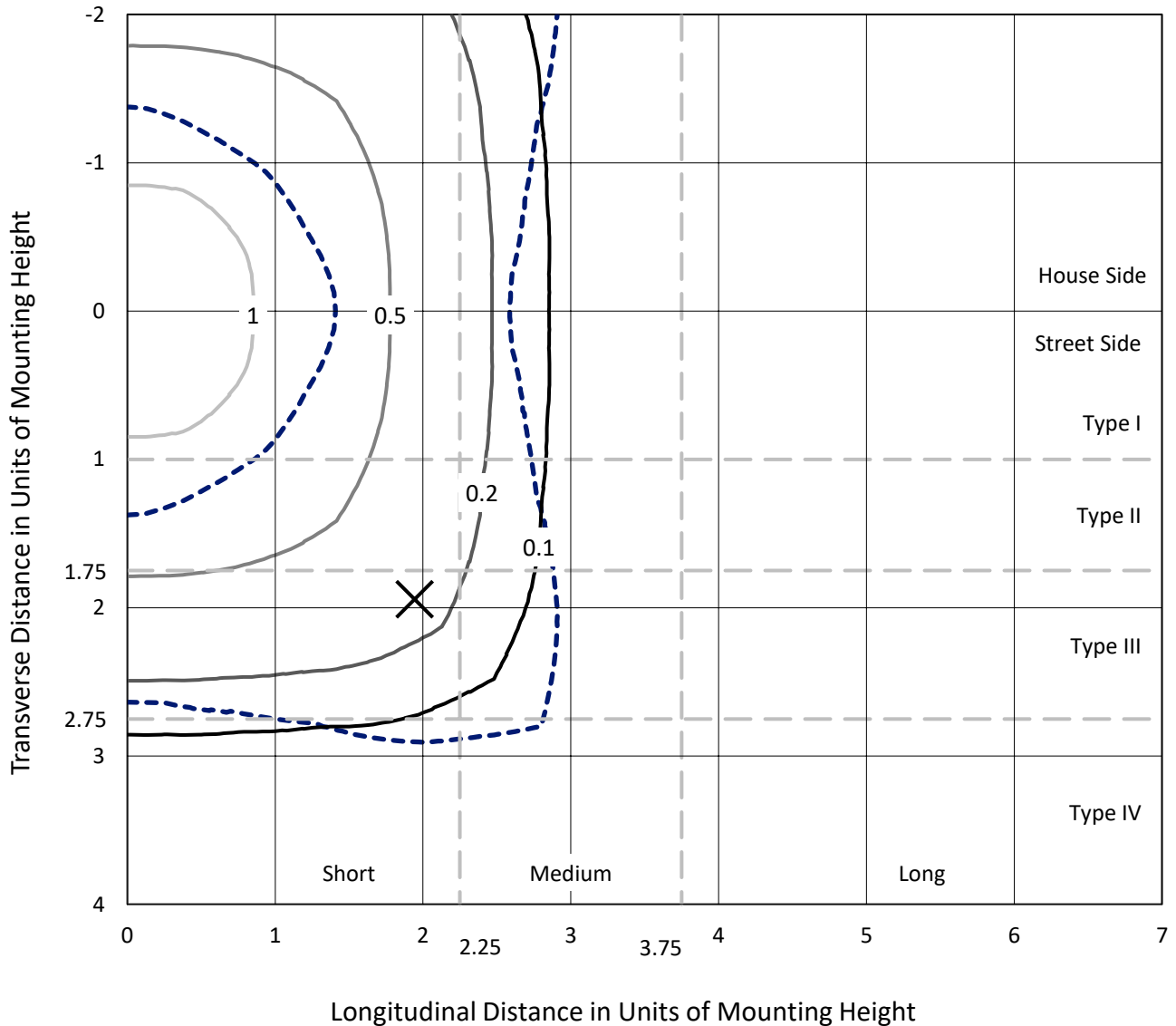
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

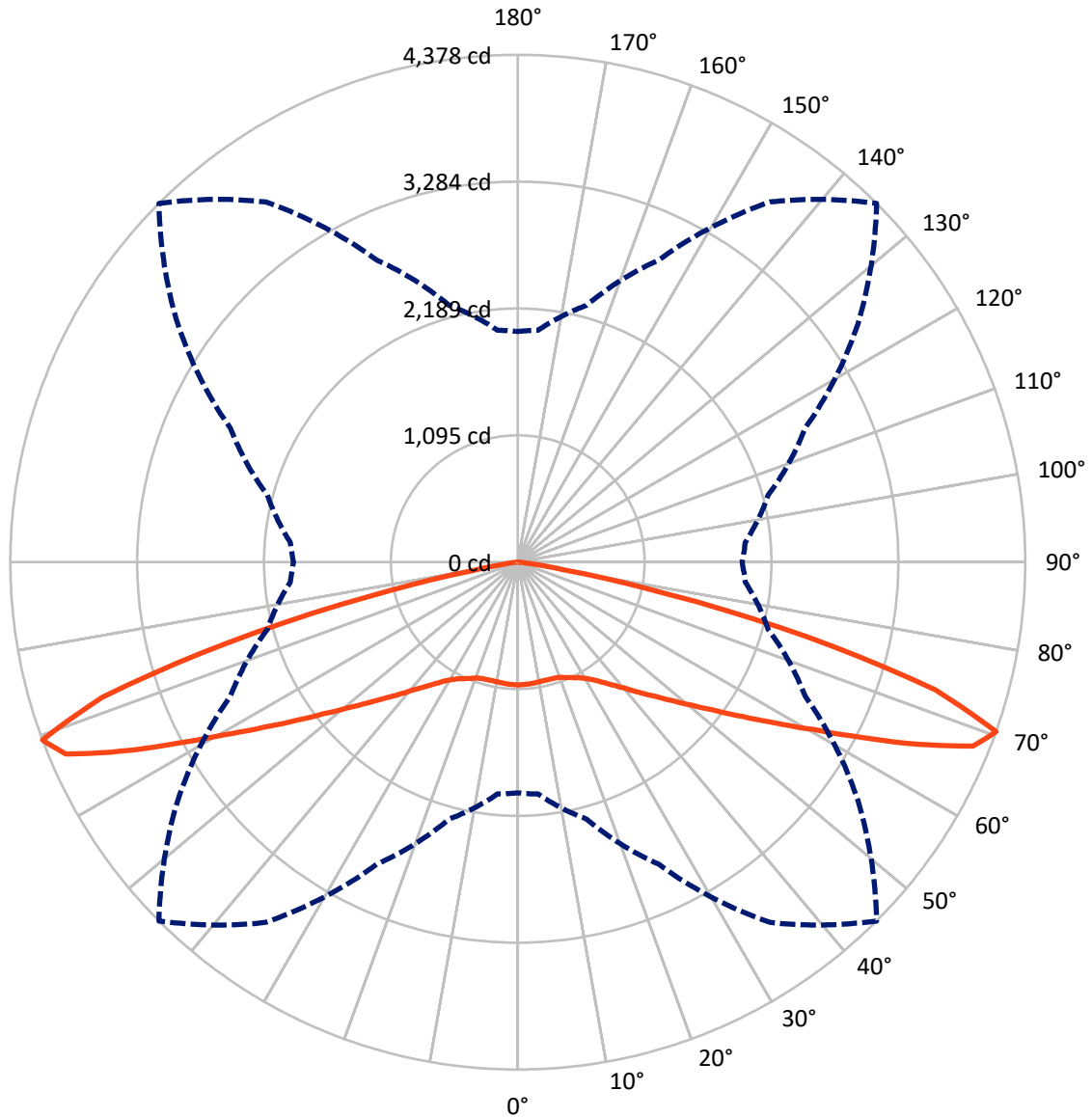
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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 | 4768.5 | 0.0 | 4768.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4768.5 | 0.0 | 4768.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9537.0 | 0.0 | 9537.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.4 | 1.1 |
| 10°-20° | 294.7 | 3.1 |
| 20°-30° | 504.0 | 5.3 |
| 30°-40° | 800.0 | 8.4 |
| 40°-50° | 1290.6 | 13.5 |
| 50°-60° | 2099.8 | 22.0 |
| 60°-70° | 3044.0 | 31.9 |
| 70°-80° | 1350.2 | 14.2 |
| 80°-90° | 53.2 | 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° | 9537.0 | 100.0 |
| 0°-180° | 9537.0 | 100.0 |

Coefficient of Utilization



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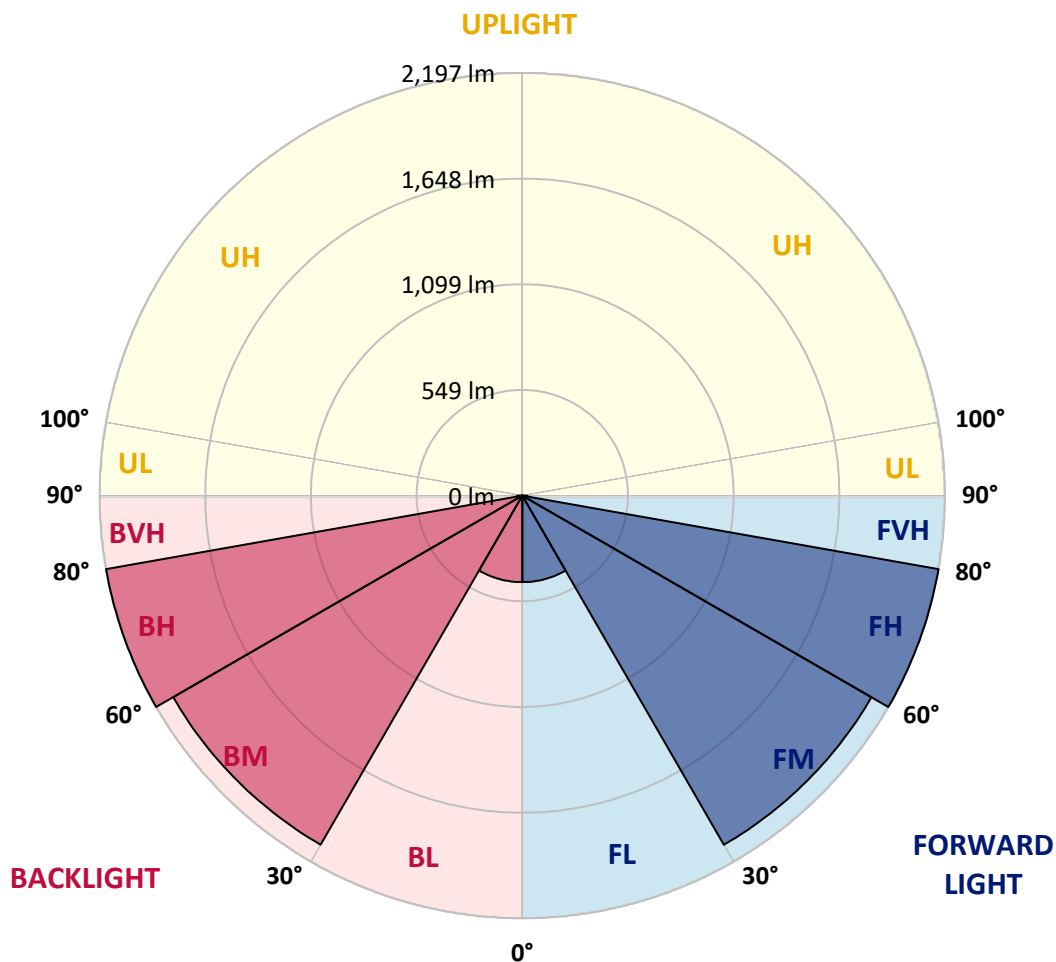
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 449.6 | 4.7 | | | |
| FM (30°-60°) | 2095.2 | 22.0 | | | |
| FH (60°-80°) | 2197.1 | 23.0 | | | G2/5000 |
| FVH (80°-90°) | 26.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 449.6 | 4.7 | B1/500 | | |
| BM (30°-60°) | 2095.2 | 22.0 | B2/2500 | | |
| BH (60°-80°) | 2197.1 | 23.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 26.6 | 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° | 1059.0 | 1059.0 | 1059.0 | 1059.0 | 1059.0 | 1059.0 | 1059.0 | 1059.0 | 1059.0 | 1059.0 | 1059.0 |
| 2.5° | 1059.0 | 1060.0 | 1058.5 | 1057.5 | 1057.0 | 1057.0 | 1056.5 | 1057.0 | 1060.0 | 1060.5 | 1059.0 |
| 5° | 1056.0 | 1057.0 | 1056.5 | 1055.5 | 1055.0 | 1055.0 | 1054.5 | 1054.0 | 1056.5 | 1057.5 | 1057.0 |
| 7.5° | 1052.0 | 1052.5 | 1052.0 | 1051.5 | 1052.0 | 1051.5 | 1050.0 | 1049.0 | 1051.0 | 1051.0 | 1050.5 |
| 10° | 1045.0 | 1046.0 | 1045.5 | 1046.0 | 1047.0 | 1047.0 | 1045.0 | 1043.0 | 1043.5 | 1042.5 | 1042.5 |
| 12.5° | 1036.4 | 1037.9 | 1038.4 | 1040.4 | 1043.0 | 1046.0 | 1041.4 | 1036.9 | 1035.9 | 1035.4 | 1034.9 |
| 15° | 1030.9 | 1032.4 | 1034.4 | 1036.4 | 1040.9 | 1047.5 | 1040.9 | 1033.9 | 1031.9 | 1029.9 | 1028.9 |
| 17.5° | 1029.4 | 1031.4 | 1034.4 | 1037.4 | 1043.5 | 1050.0 | 1044.5 | 1037.4 | 1032.4 | 1029.4 | 1028.4 |
| 20° | 1033.4 | 1034.9 | 1039.4 | 1045.0 | 1053.5 | 1060.0 | 1054.5 | 1047.0 | 1039.4 | 1034.9 | 1033.4 |
| 22.5° | 1041.4 | 1044.0 | 1049.5 | 1059.5 | 1071.6 | 1081.2 | 1073.6 | 1061.0 | 1049.0 | 1043.0 | 1040.9 |
| 25° | 1059.0 | 1061.0 | 1067.6 | 1081.2 | 1095.2 | 1104.3 | 1096.2 | 1081.7 | 1065.1 | 1057.0 | 1054.5 |
| 27.5° | 1085.7 | 1088.7 | 1095.7 | 1111.8 | 1123.4 | 1128.4 | 1122.9 | 1112.8 | 1100.8 | 1092.2 | 1090.2 |
| 30° | 1123.4 | 1126.9 | 1137.4 | 1154.5 | 1162.1 | 1165.1 | 1162.6 | 1156.0 | 1147.5 | 1138.5 | 1136.4 |
| 32.5° | 1174.1 | 1176.2 | 1188.2 | 1204.3 | 1211.3 | 1212.3 | 1209.3 | 1206.3 | 1192.2 | 1177.2 | 1176.2 |
| 35° | 1230.9 | 1234.5 | 1249.0 | 1268.1 | 1274.7 | 1275.2 | 1269.1 | 1264.6 | 1248.0 | 1236.0 | 1236.0 |
| 37.5° | 1306.3 | 1307.8 | 1321.9 | 1343.5 | 1350.6 | 1348.6 | 1345.5 | 1341.5 | 1323.9 | 1308.3 | 1308.8 |
| 40° | 1394.8 | 1397.8 | 1409.9 | 1435.0 | 1435.0 | 1432.5 | 1434.5 | 1431.5 | 1413.9 | 1398.8 | 1399.3 |
| 42.5° | 1499.8 | 1501.4 | 1515.9 | 1542.6 | 1540.6 | 1535.5 | 1537.5 | 1533.5 | 1522.5 | 1505.4 | 1499.3 |
| 45° | 1611.9 | 1618.0 | 1643.1 | 1668.7 | 1664.7 | 1648.6 | 1656.7 | 1655.7 | 1645.6 | 1620.0 | 1621.5 |
| 47.5° | 1747.1 | 1757.2 | 1781.3 | 1812.0 | 1807.5 | 1782.3 | 1791.4 | 1797.4 | 1783.3 | 1755.2 | 1750.2 |
| 50° | 1899.4 | 1906.0 | 1941.7 | 1970.3 | 1966.3 | 1939.6 | 1960.3 | 1961.3 | 1926.1 | 1886.4 | 1886.4 |
| 52.5° | 2061.8 | 2068.3 | 2116.6 | 2161.3 | 2163.8 | 2125.1 | 2141.7 | 2140.7 | 2083.4 | 2031.1 | 2021.1 |
| 55° | 2243.7 | 2246.8 | 2309.1 | 2374.9 | 2389.0 | 2351.3 | 2353.3 | 2333.2 | 2258.8 | 2198.0 | 2192.5 |
| 57.5° | 2431.7 | 2442.8 | 2511.6 | 2597.1 | 2638.8 | 2615.7 | 2605.1 | 2551.3 | 2479.5 | 2409.6 | 2406.1 |
| 60° | 2639.8 | 2640.3 | 2729.8 | 2830.8 | 2915.2 | 2930.8 | 2887.6 | 2815.7 | 2722.7 | 2630.3 | 2626.2 |
| 62.5° | 2784.1 | 2805.7 | 2918.8 | 3089.7 | 3241.0 | 3328.4 | 3214.3 | 3063.5 | 2880.6 | 2731.3 | 2716.2 |
| 65° | 2813.7 | 2828.3 | 3000.7 | 3290.2 | 3599.3 | 3787.8 | 3523.9 | 3203.3 | 2891.1 | 2692.1 | 2682.0 |
| 67.5° | 2574.0 | 2589.5 | 2821.8 | 3266.1 | 3850.6 | 4237.2 | 3725.0 | 3135.9 | 2712.2 | 2465.9 | 2446.3 |
| 70° | 1990.9 | 2008.5 | 2295.5 | 2875.0 | 3794.8 | 4378.4 | 3581.7 | 2735.3 | 2236.7 | 1970.8 | 1935.1 |
| 72.5° | 1058.5 | 1123.4 | 1368.7 | 1973.3 | 3080.1 | 3769.7 | 2936.9 | 1995.9 | 1442.5 | 1179.2 | 1131.9 |
| 75° | 386.5 | 394.6 | 531.3 | 875.1 | 1791.9 | 2585.0 | 1860.7 | 952.0 | 547.4 | 422.7 | 401.1 |
| 77.5° | 159.8 | 159.3 | 174.9 | 264.4 | 650.9 | 1323.9 | 726.3 | 279.5 | 174.4 | 161.3 | 159.3 |
| 80° | 94.5 | 94.5 | 104.0 | 110.1 | 171.4 | 399.6 | 191.5 | 124.7 | 104.5 | 95.5 | 97.0 |
| 82.5° | 42.2 | 44.7 | 65.8 | 69.4 | 82.9 | 109.6 | 92.5 | 79.4 | 68.4 | 47.2 | 42.7 |
| 85° | 23.1 | 20.1 | 34.7 | 36.2 | 39.7 | 40.7 | 43.7 | 43.2 | 39.7 | 23.1 | 23.6 |
| 87.5° | 4.5 | 5.5 | 10.1 | 7.5 | 8.5 | 7.5 | 10.1 | 14.1 | 14.6 | 8.0 | 6.5 |
| 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)