

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: P479619

Luminaire Tested: **IFLD-M-SA4A-727-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479619
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

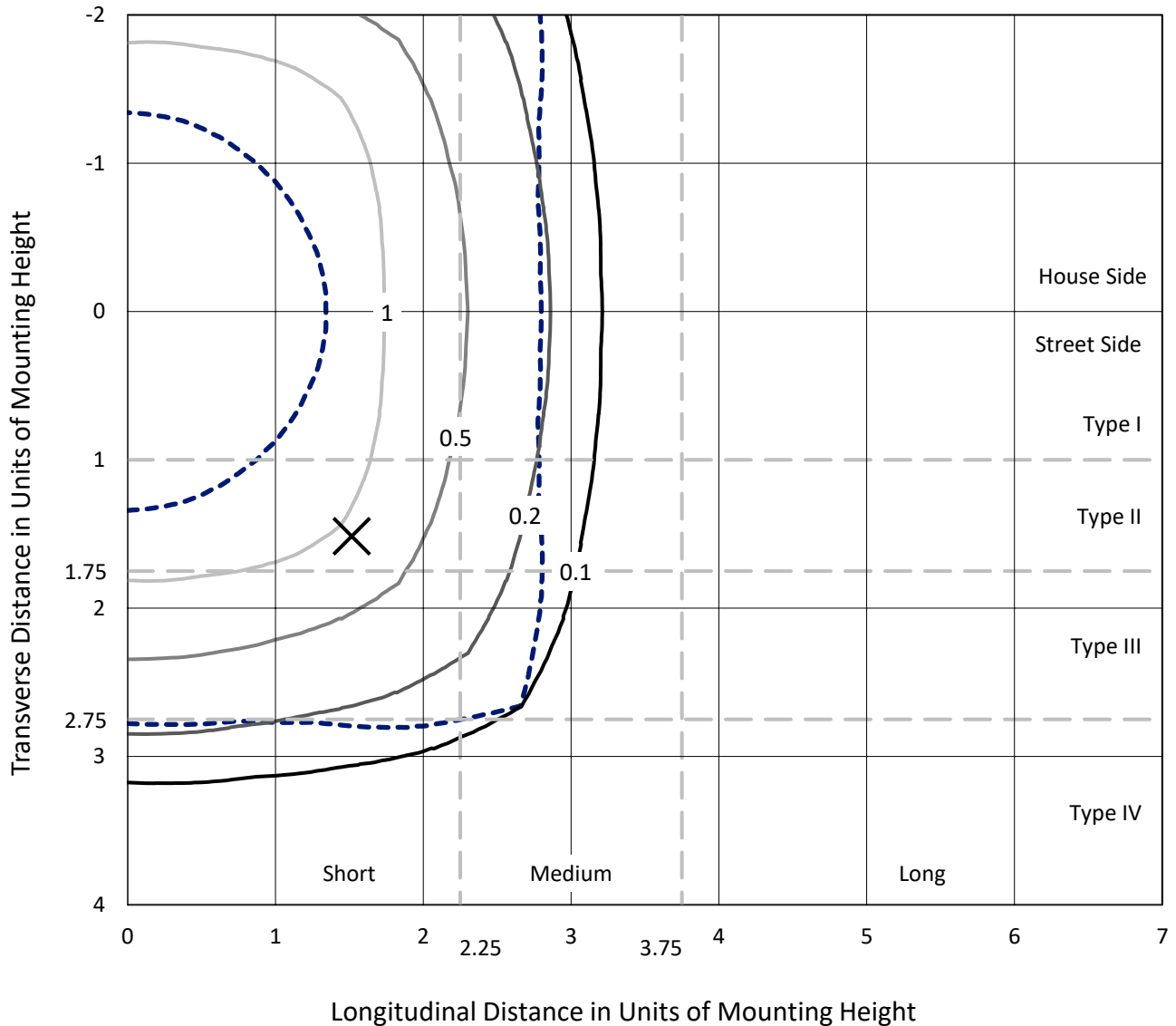
Lumens per Lamp: N/A
Luminaire Lumens: 15848.8 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 128.6
Input Voltage (V): 120
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

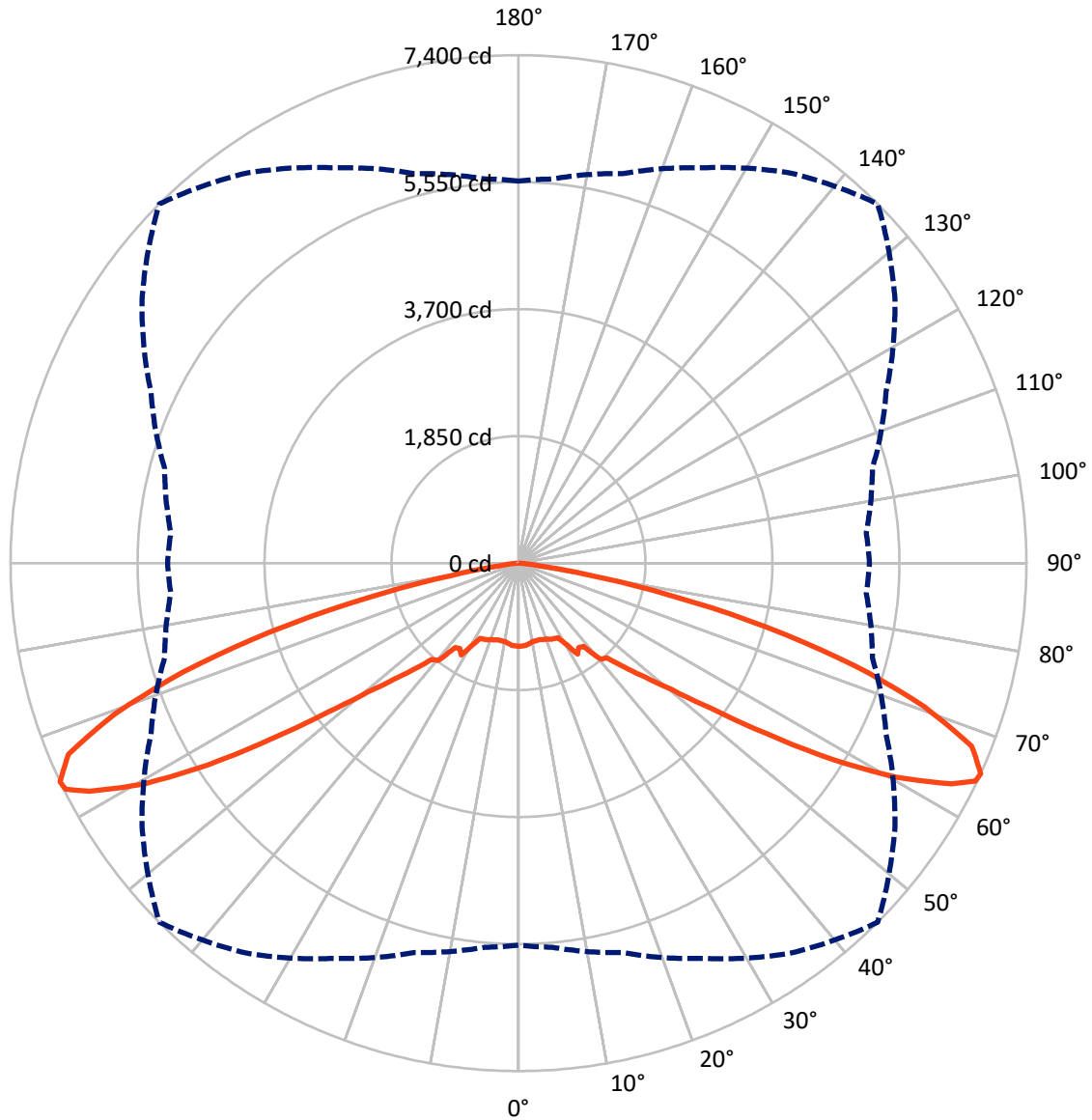
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7924.4 | 0.0 | 7924.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7924.4 | 0.0 | 7924.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15848.8 | 0.0 | 15848.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 113.7 | 0.7 |
| 10°-20° | 334.0 | 2.1 |
| 20°-30° | 578.2 | 3.6 |
| 30°-40° | 961.4 | 6.1 |
| 40°-50° | 1734.5 | 10.9 |
| 50°-60° | 3863.9 | 24.4 |
| 60°-70° | 5758.5 | 36.3 |
| 70°-80° | 2386.4 | 15.1 |
| 80°-90° | 118.2 | 0.7 |
| 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° | 15848.8 | 100.0 |
| 0°-180° | 15848.8 | 100.0 |

Coefficient of Utilization



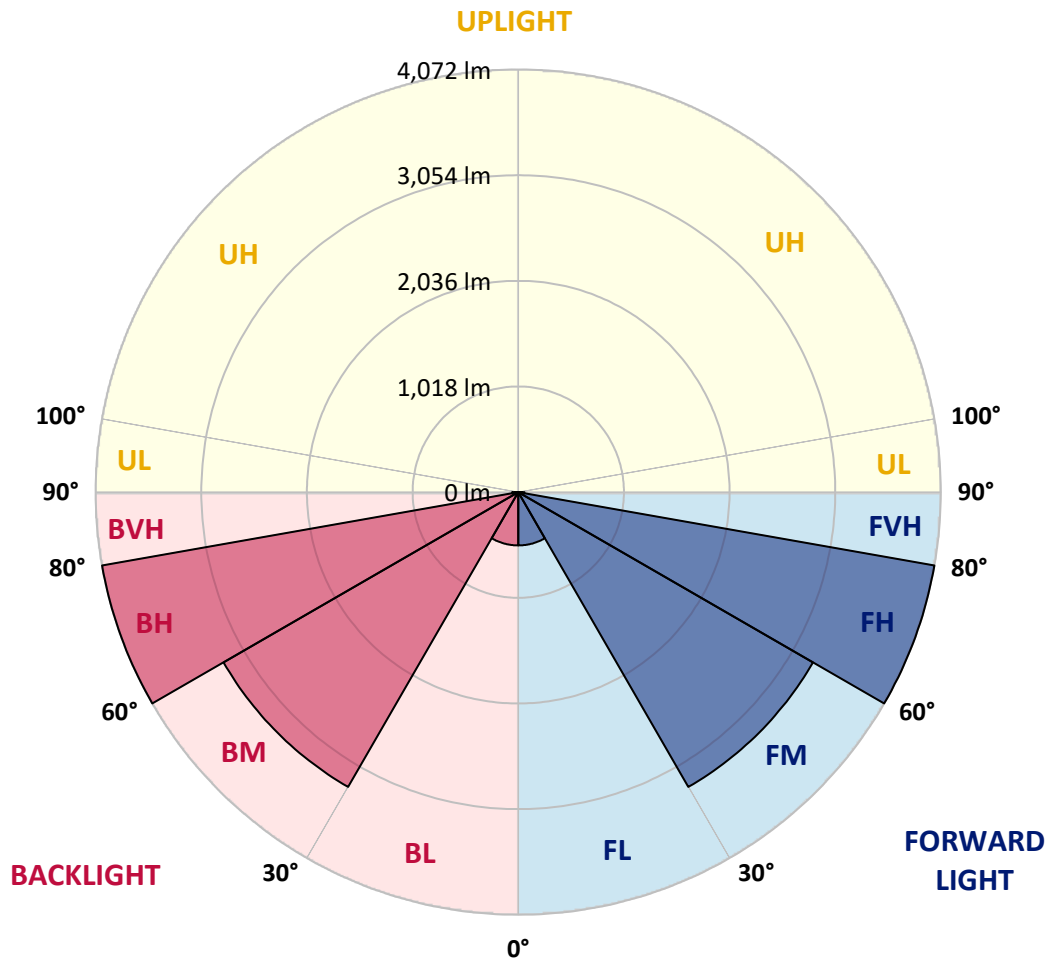
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 513.0 | 3.2 | | | |
| FM (30°-60°) | 3279.9 | 20.7 | | | |
| FH (60°-80°) | 4072.4 | 25.7 | | | G2/5000 |
| FVH (80°-90°) | 59.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 513.0 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 3279.9 | 20.7 | B3/5000 | | |
| BH (60°-80°) | 4072.4 | 25.7 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 59.1 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1211.7 | 1211.7 | 1211.7 | 1211.7 | 1211.7 | 1211.7 | 1211.7 | 1211.7 | 1211.7 | 1211.7 | 1211.7 |
| 2.5° | 1197.7 | 1201.2 | 1199.5 | 1199.5 | 1204.7 | 1208.2 | 1210.0 | 1227.5 | 1220.5 | 1225.7 | 1220.5 |
| 5° | 1201.2 | 1201.2 | 1204.7 | 1201.2 | 1204.7 | 1201.2 | 1204.7 | 1199.5 | 1204.7 | 1208.2 | 1213.5 |
| 7.5° | 1194.2 | 1190.7 | 1185.5 | 1185.5 | 1183.7 | 1180.2 | 1175.0 | 1189.0 | 1182.0 | 1187.2 | 1196.0 |
| 10° | 1196.0 | 1190.7 | 1173.2 | 1176.7 | 1161.0 | 1161.0 | 1164.5 | 1164.5 | 1180.2 | 1197.7 | 1203.0 |
| 12.5° | 1196.0 | 1185.5 | 1180.2 | 1157.5 | 1157.5 | 1159.2 | 1168.0 | 1171.5 | 1182.0 | 1189.0 | 1206.5 |
| 15° | 1196.0 | 1190.7 | 1182.0 | 1152.2 | 1159.2 | 1155.7 | 1164.5 | 1164.5 | 1187.2 | 1199.5 | 1208.2 |
| 17.5° | 1203.0 | 1206.5 | 1190.7 | 1162.7 | 1164.5 | 1171.5 | 1166.2 | 1171.5 | 1199.5 | 1208.2 | 1220.5 |
| 20° | 1204.7 | 1190.7 | 1185.5 | 1168.0 | 1183.7 | 1180.2 | 1178.5 | 1189.0 | 1197.7 | 1213.5 | 1227.5 |
| 22.5° | 1201.2 | 1206.5 | 1185.5 | 1183.7 | 1197.7 | 1204.7 | 1208.2 | 1196.0 | 1206.5 | 1217.0 | 1229.2 |
| 25° | 1231.0 | 1211.7 | 1206.5 | 1203.0 | 1210.0 | 1217.0 | 1213.5 | 1224.0 | 1224.0 | 1236.2 | 1252.0 |
| 27.5° | 1311.5 | 1313.3 | 1302.8 | 1260.8 | 1246.8 | 1231.0 | 1238.0 | 1266.0 | 1299.3 | 1325.6 | 1330.8 |
| 30° | 1348.3 | 1355.3 | 1383.3 | 1376.3 | 1371.1 | 1376.3 | 1374.6 | 1381.6 | 1385.1 | 1386.8 | 1381.6 |
| 32.5° | 1381.6 | 1378.1 | 1365.8 | 1397.3 | 1500.7 | 1579.5 | 1504.2 | 1400.8 | 1378.1 | 1371.1 | 1378.1 |
| 35° | 1502.4 | 1502.4 | 1476.1 | 1435.9 | 1490.2 | 1509.4 | 1474.4 | 1425.4 | 1453.4 | 1511.2 | 1514.7 |
| 37.5° | 1658.3 | 1635.5 | 1646.0 | 1640.7 | 1581.2 | 1539.2 | 1600.5 | 1632.0 | 1637.2 | 1635.5 | 1653.0 |
| 40° | 1751.1 | 1735.3 | 1719.5 | 1747.6 | 1801.8 | 1840.4 | 1786.1 | 1710.8 | 1730.0 | 1768.6 | 1752.8 |
| 42.5° | 1962.9 | 1922.7 | 1926.2 | 1898.2 | 1896.4 | 1884.1 | 1871.9 | 1877.1 | 1905.2 | 1948.9 | 1955.9 |
| 45° | 2180.1 | 2199.3 | 2187.1 | 2134.5 | 2159.1 | 2159.1 | 2124.0 | 2150.3 | 2164.3 | 2215.1 | 2222.1 |
| 47.5° | 2519.8 | 2511.0 | 2516.3 | 2469.0 | 2467.2 | 2479.5 | 2467.2 | 2469.0 | 2512.8 | 2509.3 | 2490.0 |
| 50° | 2917.3 | 2941.8 | 2948.8 | 2926.0 | 2898.0 | 2892.8 | 2873.5 | 2898.0 | 2924.3 | 2926.0 | 2910.3 |
| 52.5° | 3467.1 | 3493.4 | 3493.4 | 3500.4 | 3535.4 | 3517.9 | 3514.4 | 3516.1 | 3465.4 | 3430.3 | 3447.8 |
| 55° | 4160.5 | 4169.3 | 4199.0 | 4260.3 | 4367.1 | 4381.2 | 4314.6 | 4284.8 | 4192.0 | 4136.0 | 4179.8 |
| 57.5° | 4845.2 | 4880.2 | 4962.5 | 5121.9 | 5253.2 | 5396.8 | 5204.2 | 5008.0 | 4825.9 | 4736.6 | 4752.4 |
| 60° | 5414.3 | 5465.1 | 5622.7 | 5845.0 | 6209.3 | 6340.6 | 6014.9 | 5678.7 | 5309.2 | 5036.1 | 5146.4 |
| 62.5° | 5682.2 | 5761.0 | 5894.1 | 6344.1 | 6890.4 | 7079.5 | 6601.5 | 5990.4 | 5430.0 | 5167.4 | 5162.1 |
| 64° | 5683.9 | 5696.2 | 5962.4 | 6447.4 | 7009.5 | 7375.5 | 6743.3 | 5990.4 | 5459.8 | 5135.9 | 5195.4 |
| 65° | 5566.6 | 5617.4 | 5874.8 | 6352.9 | 6934.2 | 7400.0 | 6694.3 | 5908.1 | 5337.2 | 5085.1 | 5113.1 |
| 67.5° | 5034.3 | 5032.6 | 5270.7 | 5745.2 | 6552.5 | 7121.6 | 6277.6 | 5447.6 | 5034.3 | 4761.1 | 4794.4 |
| 70° | 3819.1 | 3880.4 | 4108.0 | 4691.1 | 5669.9 | 6279.3 | 5489.6 | 4629.8 | 4115.0 | 3896.1 | 3883.9 |
| 72.5° | 2285.1 | 2365.7 | 2656.4 | 3367.3 | 4403.9 | 5144.6 | 4356.6 | 3425.1 | 2805.2 | 2458.5 | 2467.2 |
| 75° | 1041.9 | 1101.4 | 1301.0 | 1880.6 | 2934.8 | 3761.3 | 2952.3 | 1980.5 | 1420.1 | 1199.5 | 1168.0 |
| 77.5° | 292.4 | 329.2 | 439.5 | 863.3 | 1611.0 | 2255.4 | 1656.5 | 954.3 | 619.9 | 514.8 | 504.3 |
| 80° | 131.3 | 138.3 | 155.8 | 210.1 | 511.3 | 994.6 | 684.7 | 350.2 | 232.9 | 192.6 | 183.9 |
| 82.5° | 71.8 | 77.0 | 101.6 | 108.6 | 145.3 | 264.4 | 225.9 | 164.6 | 140.1 | 112.1 | 108.6 |
| 85° | 40.3 | 42.0 | 57.8 | 57.8 | 70.0 | 77.0 | 82.3 | 87.6 | 85.8 | 63.0 | 61.3 |
| 87.5° | 12.3 | 14.0 | 17.5 | 17.5 | 17.5 | 17.5 | 28.0 | 38.5 | 42.0 | 29.8 | 29.8 |
| 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)