

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: LUMARK

Report Number: P881925

Luminaire Tested: **NAV-SB1C-760-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-760-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7994 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

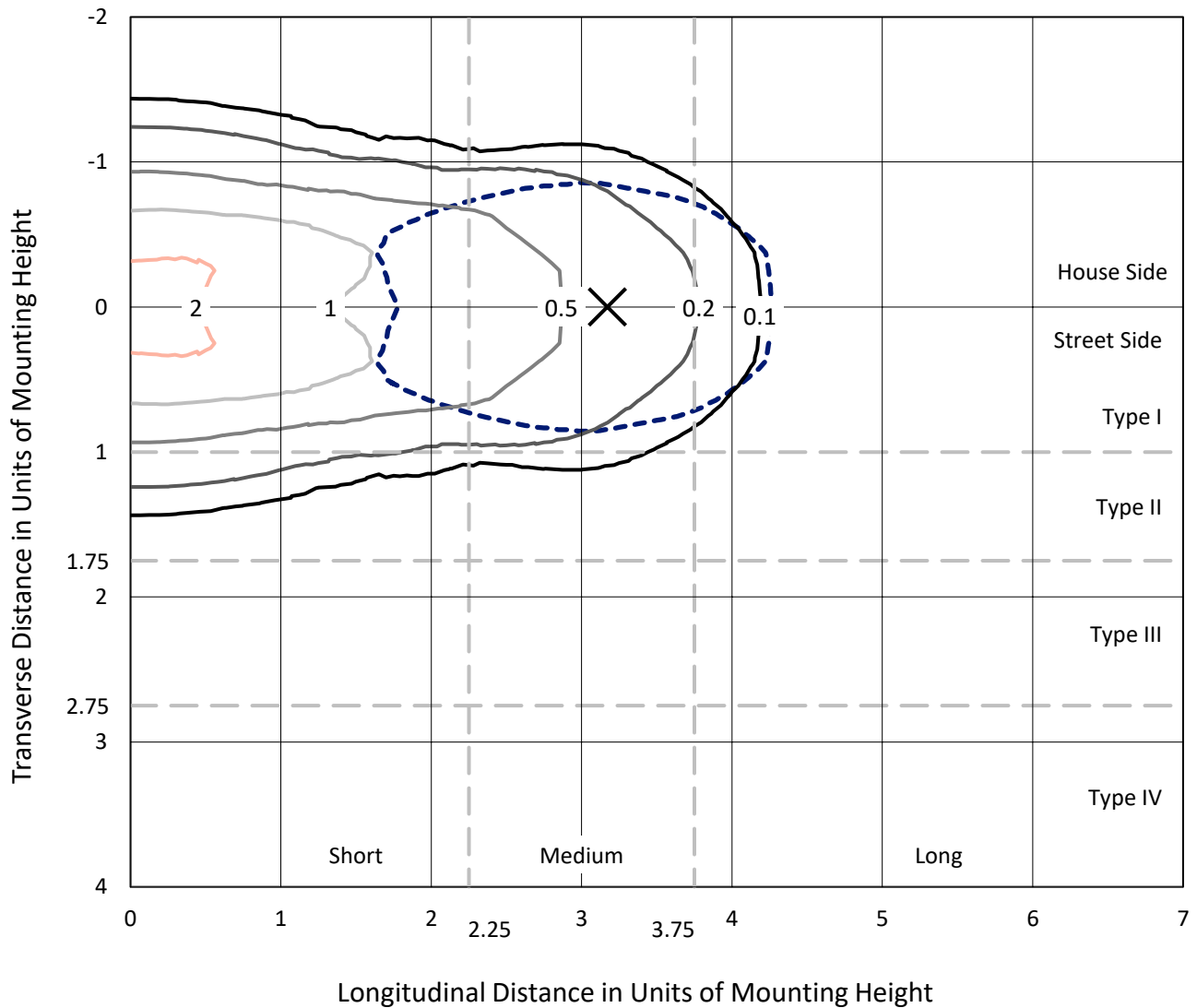
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

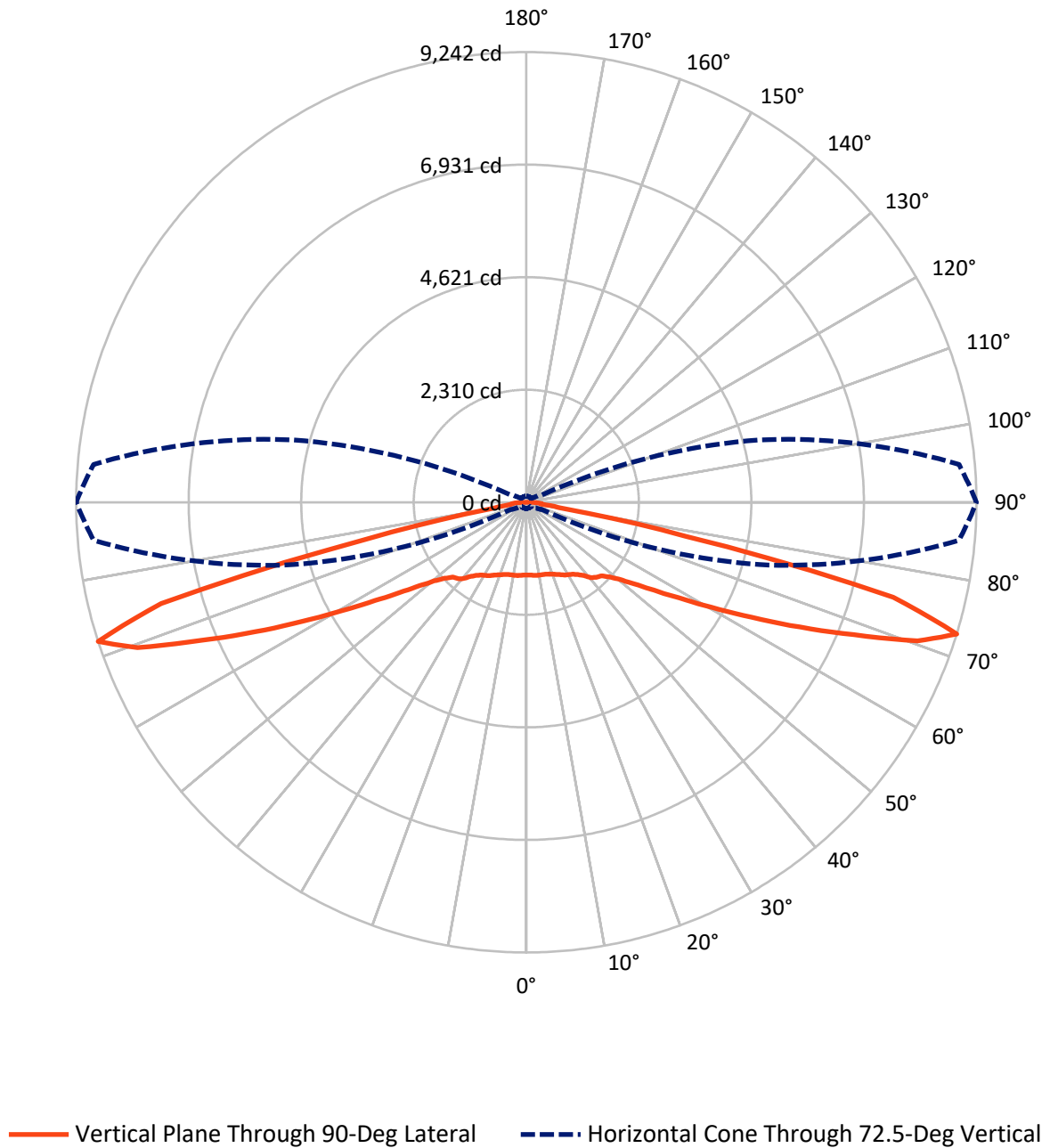
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3997.0 | 0.0 | 3997.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3997.0 | 0.0 | 3997.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7994.0 | 0.0 | 7994.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.8 | 1.8 |
| 10°-20° | 442.9 | 5.5 |
| 20°-30° | 738.4 | 9.2 |
| 30°-40° | 1015.6 | 12.7 |
| 40°-50° | 1240.3 | 15.5 |
| 50°-60° | 1434.5 | 17.9 |
| 60°-70° | 1710.4 | 21.4 |
| 70°-80° | 1193.8 | 14.9 |
| 80°-90° | 73.3 | 0.9 |
| 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° | 7994.0 | 100.0 |
| 0°-180° | 7994.0 | 100.0 |

Coefficient of Utilization



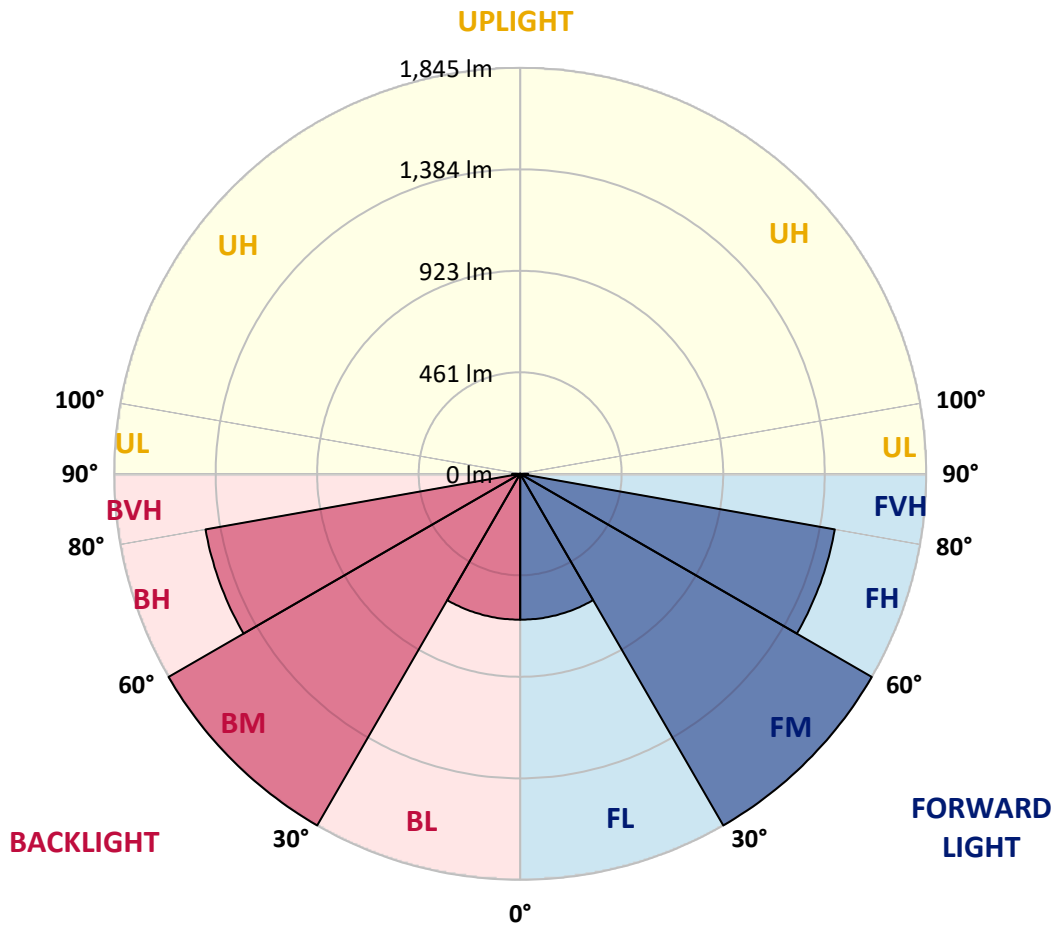
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 663.1 | 8.3 | | | |
| FM (30°-60°) | 1845.2 | 23.1 | | | |
| FH (60°-80°) | 1452.1 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 36.7 | 0.5 | | | G1/100 |
| BL (0°-30°) | 663.1 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 1845.2 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1452.1 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 36.7 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1493.8 | 1493.8 | 1493.8 | 1493.8 | 1493.8 | 1493.8 | 1493.8 | 1493.8 | 1493.8 | 1493.8 | 1493.8 |
| 2.5° | 1495.0 | 1496.7 | 1496.7 | 1495.5 | 1498.4 | 1495.9 | 1495.9 | 1494.6 | 1495.9 | 1494.6 | 1494.6 |
| 5° | 1502.7 | 1504.8 | 1505.7 | 1505.2 | 1509.1 | 1506.9 | 1506.9 | 1505.2 | 1505.7 | 1504.4 | 1504.4 |
| 7.5° | 1517.1 | 1520.1 | 1521.8 | 1523.9 | 1529.5 | 1526.9 | 1525.2 | 1520.1 | 1518.0 | 1514.6 | 1514.6 |
| 10° | 1521.8 | 1525.2 | 1530.7 | 1541.8 | 1554.5 | 1554.9 | 1549.8 | 1537.1 | 1527.3 | 1519.7 | 1518.4 |
| 12.5° | 1507.4 | 1512.0 | 1523.5 | 1546.0 | 1574.5 | 1586.0 | 1577.9 | 1556.6 | 1537.5 | 1523.9 | 1521.8 |
| 15° | 1489.1 | 1494.2 | 1511.6 | 1545.6 | 1587.7 | 1614.4 | 1613.6 | 1585.5 | 1554.9 | 1533.7 | 1530.3 |
| 17.5° | 1460.6 | 1465.7 | 1490.8 | 1538.4 | 1597.9 | 1642.0 | 1653.9 | 1625.0 | 1582.1 | 1553.7 | 1549.0 |
| 20° | 1409.2 | 1413.9 | 1448.7 | 1515.4 | 1601.2 | 1671.3 | 1702.4 | 1676.9 | 1623.3 | 1584.7 | 1577.5 |
| 22.5° | 1342.5 | 1349.7 | 1390.5 | 1475.9 | 1593.2 | 1701.9 | 1757.6 | 1740.2 | 1671.3 | 1617.8 | 1608.0 |
| 25° | 1271.1 | 1278.8 | 1326.4 | 1427.5 | 1572.4 | 1724.0 | 1823.0 | 1812.0 | 1725.7 | 1659.0 | 1645.4 |
| 27.5° | 1209.5 | 1217.6 | 1269.4 | 1379.5 | 1540.1 | 1732.5 | 1887.6 | 1893.1 | 1791.6 | 1704.5 | 1690.0 |
| 30° | 1161.1 | 1168.8 | 1224.0 | 1340.8 | 1498.4 | 1724.0 | 1944.1 | 1982.3 | 1858.7 | 1744.0 | 1723.2 |
| 32.5° | 1108.0 | 1117.8 | 1176.0 | 1293.7 | 1449.2 | 1703.6 | 1993.4 | 2078.8 | 1936.5 | 1786.5 | 1760.1 |
| 35° | 1040.9 | 1049.8 | 1111.0 | 1229.1 | 1384.6 | 1670.9 | 2034.6 | 2185.8 | 2047.8 | 1851.1 | 1821.7 |
| 37.5° | 959.3 | 967.8 | 1028.6 | 1148.4 | 1320.4 | 1625.0 | 2066.0 | 2306.5 | 2180.3 | 1944.1 | 1905.0 |
| 40° | 877.3 | 885.4 | 942.3 | 1058.3 | 1243.5 | 1566.4 | 2077.1 | 2424.6 | 2332.4 | 2072.0 | 2030.3 |
| 42.5° | 802.1 | 809.3 | 861.6 | 969.5 | 1157.3 | 1491.6 | 2062.6 | 2527.4 | 2468.8 | 2161.2 | 2107.7 |
| 45° | 732.9 | 739.2 | 785.5 | 886.2 | 1067.6 | 1400.7 | 2019.3 | 2637.9 | 2631.1 | 2224.9 | 2152.7 |
| 47.5° | 653.8 | 660.2 | 708.2 | 805.5 | 978.0 | 1294.1 | 1945.8 | 2746.6 | 2856.7 | 2369.4 | 2286.1 |
| 50° | 557.4 | 562.9 | 612.2 | 712.5 | 885.0 | 1180.7 | 1843.8 | 2832.0 | 3141.3 | 2588.2 | 2483.7 |
| 52.5° | 443.1 | 449.1 | 497.1 | 597.3 | 774.5 | 1058.7 | 1709.6 | 2887.7 | 3470.2 | 2907.7 | 2778.9 |
| 55° | 329.7 | 333.9 | 375.6 | 465.6 | 637.7 | 919.8 | 1541.3 | 2903.4 | 3843.2 | 3344.4 | 3183.4 |
| 57.5° | 239.2 | 241.7 | 268.5 | 335.6 | 483.5 | 746.0 | 1337.0 | 2862.6 | 4287.1 | 3904.3 | 3701.7 |
| 60° | 193.7 | 194.6 | 202.7 | 232.4 | 336.1 | 549.8 | 1090.2 | 2722.4 | 4768.9 | 4626.2 | 4370.8 |
| 62.5° | 175.9 | 175.9 | 178.0 | 186.1 | 227.3 | 362.8 | 791.5 | 2431.8 | 5285.5 | 5538.3 | 5196.3 |
| 65° | 163.6 | 163.6 | 164.4 | 168.2 | 179.3 | 231.1 | 499.6 | 1958.5 | 5721.0 | 6606.8 | 6174.3 |
| 67.5° | 152.5 | 152.9 | 152.5 | 153.8 | 160.2 | 170.8 | 289.7 | 1352.7 | 5955.5 | 7714.0 | 7247.0 |
| 70° | 141.0 | 141.9 | 139.8 | 139.8 | 144.9 | 145.3 | 181.4 | 741.8 | 5760.9 | 8641.8 | 8519.0 |
| 72.5° | 127.5 | 128.7 | 125.3 | 124.5 | 128.3 | 126.6 | 136.4 | 356.0 | 4946.1 | 8918.8 | 9241.7 |
| 75° | 115.6 | 117.3 | 109.6 | 107.5 | 107.5 | 106.2 | 110.9 | 182.7 | 3210.1 | 7275.5 | 7781.9 |
| 77.5° | 104.9 | 108.3 | 96.0 | 89.2 | 87.5 | 83.7 | 90.5 | 111.7 | 1404.1 | 3415.8 | 3344.8 |
| 80° | 86.7 | 91.3 | 79.0 | 70.9 | 68.0 | 63.7 | 71.4 | 78.2 | 417.6 | 793.2 | 759.6 |
| 82.5° | 64.6 | 66.7 | 56.1 | 50.6 | 48.0 | 45.0 | 53.5 | 54.4 | 136.0 | 280.8 | 317.4 |
| 85° | 41.2 | 42.1 | 34.4 | 29.7 | 28.5 | 27.2 | 34.0 | 29.7 | 51.8 | 206.5 | 299.9 |
| 87.5° | 14.4 | 16.6 | 13.2 | 11.9 | 12.7 | 10.6 | 15.7 | 8.9 | 14.4 | 145.7 | 180.6 |
| 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)