

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: P963434

Luminaire Tested: **NVN-SB3A-727-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3A-727-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

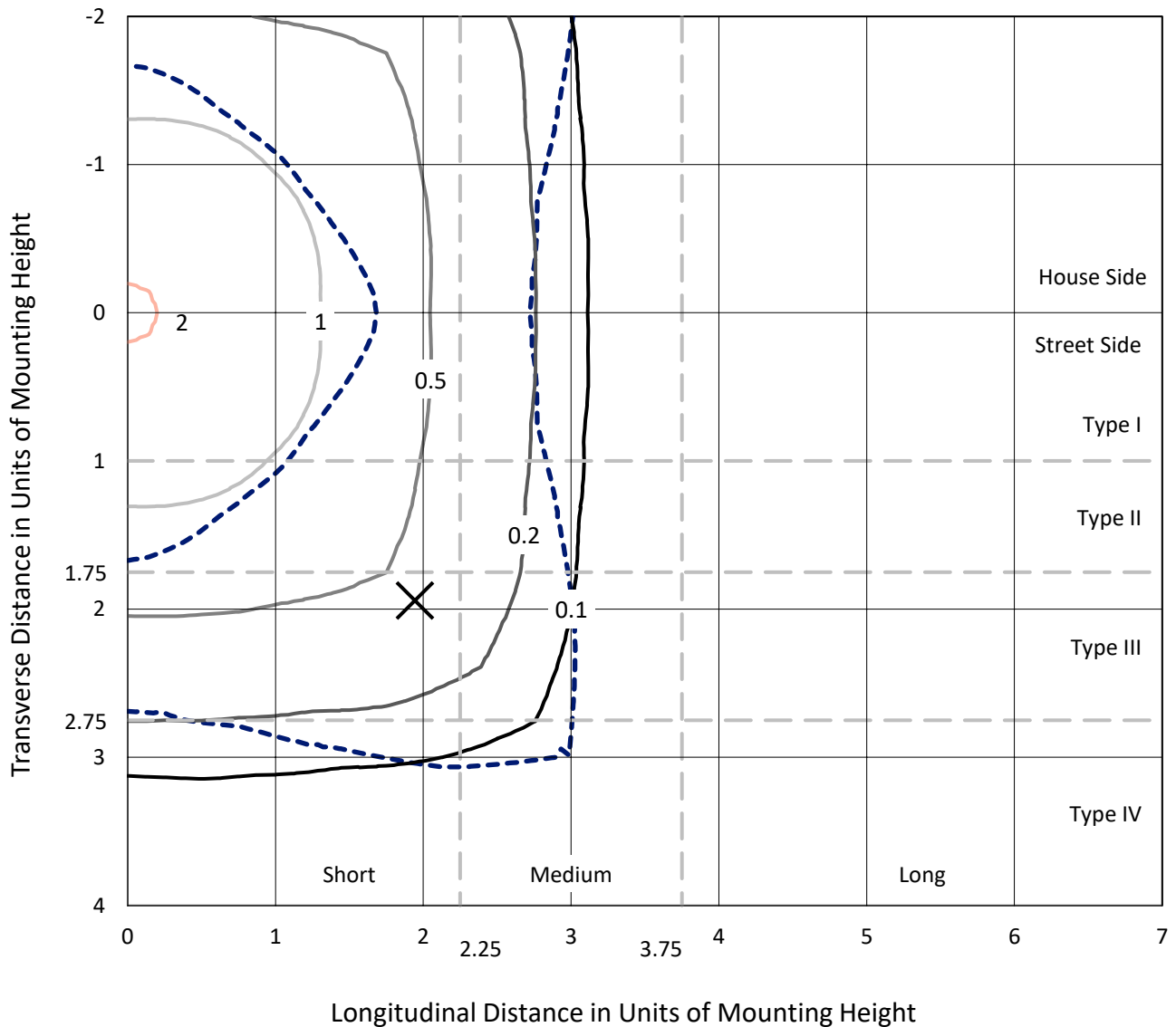
Lumens per Lamp: N/A  
Luminaire Lumens: 13400.9 lumens  
Efficiency: N/A  
Efficacy: 158.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

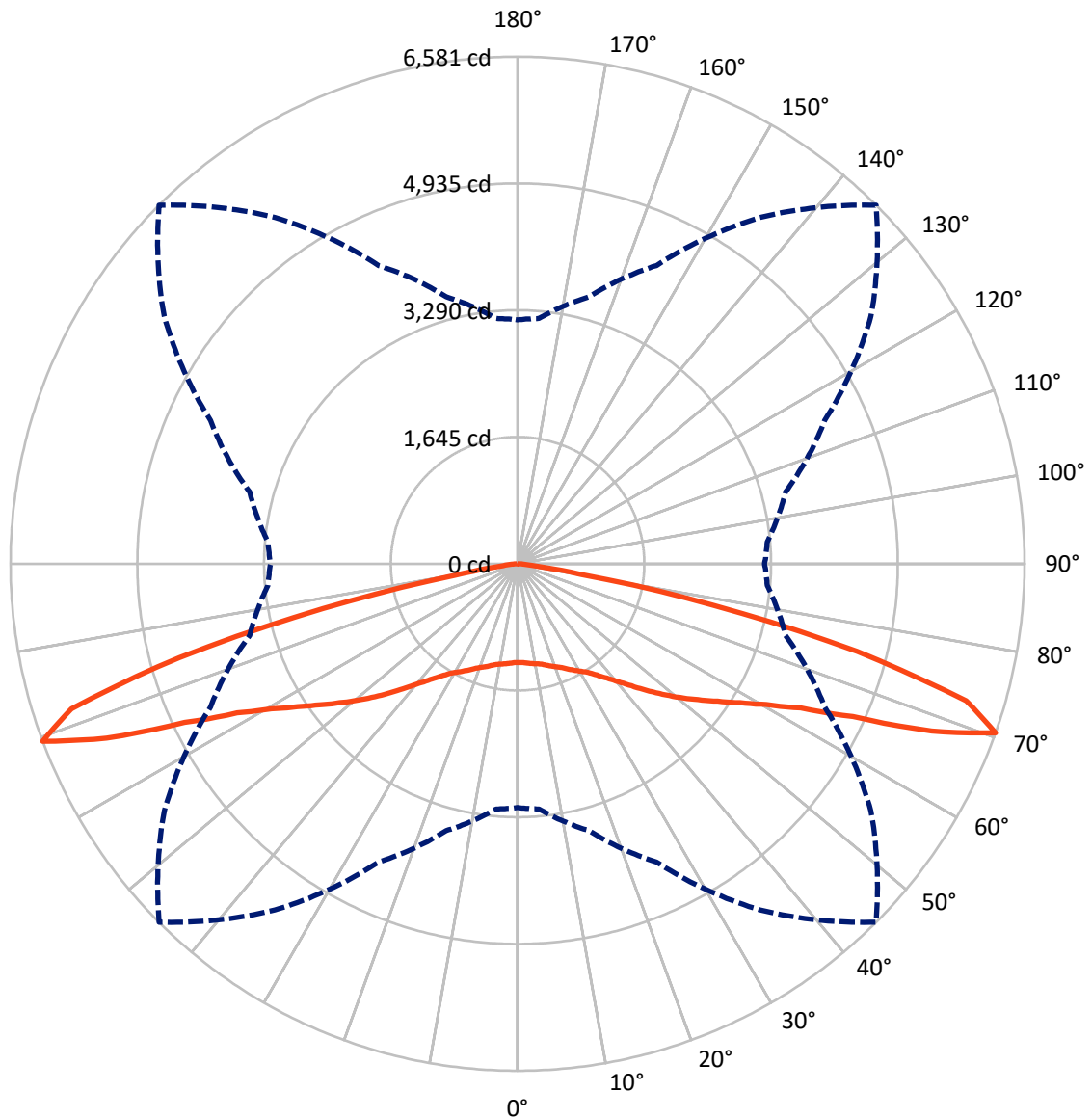
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6700.4   | 0.0    | 6700.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6700.4   | 0.0    | 6700.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13400.9  | 0.0    | 13400.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 124.7   | 0.9       |
| 10°-20°   | 386.7   | 2.9       |
| 20°-30°   | 691.1   | 5.2       |
| 30°-40°   | 1120.2  | 8.4       |
| 40°-50°   | 1824.7  | 13.6      |
| 50°-60°   | 2782.0  | 20.8      |
| 60°-70°   | 4138.8  | 30.9      |
| 70°-80°   | 2255.8  | 16.8      |
| 80°-90°   | 76.8    | 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°    | 13400.9 | 100.0     |
| 0°-180°   | 13400.9 | 100.0     |

**Coefficient of Utilization**



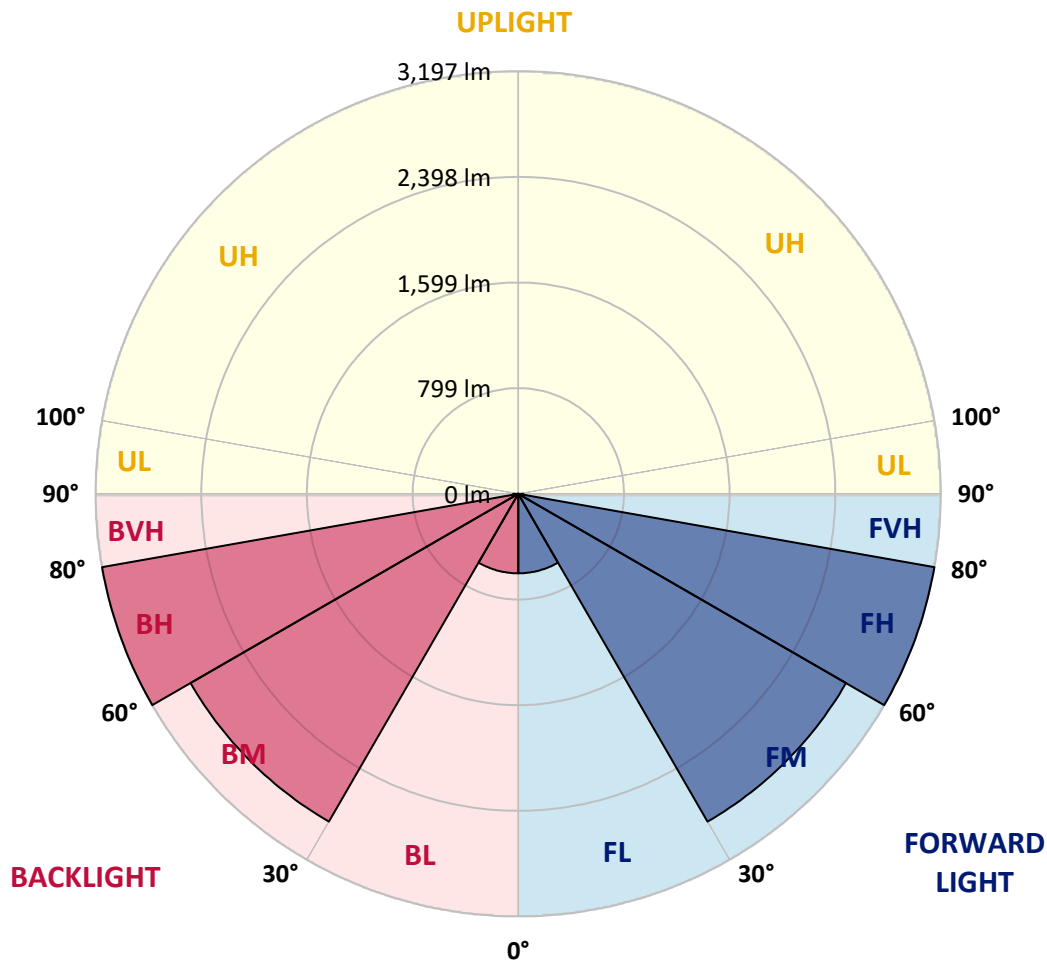
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 601.3  | 4.5       |                         |      |         |
| FM (30°-60°)   | 2863.5 | 21.4      |                         |      |         |
| FH (60°-80°)   | 3197.3 | 23.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 38.4   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 601.3  | 4.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 2863.5 | 21.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 3197.3 | 23.9      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 38.4   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: 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°    | 1283.7 | 1283.7 | 1283.7 | 1283.7 | 1283.7 | 1283.7 | 1283.7 | 1283.7 | 1283.7 | 1283.7 | 1283.7 |
| 2.5°  | 1289.8 | 1291.1 | 1288.3 | 1287.0 | 1285.7 | 1283.7 | 1284.3 | 1287.7 | 1290.4 | 1289.8 | 1290.4 |
| 5°    | 1300.5 | 1301.9 | 1299.8 | 1299.2 | 1296.4 | 1295.8 | 1295.8 | 1299.2 | 1301.1 | 1299.8 | 1300.5 |
| 7.5°  | 1312.6 | 1314.6 | 1311.3 | 1310.6 | 1309.2 | 1307.9 | 1307.2 | 1310.6 | 1312.6 | 1312.6 | 1312.6 |
| 10°   | 1324.0 | 1326.0 | 1323.4 | 1321.3 | 1320.0 | 1320.0 | 1318.7 | 1321.3 | 1324.7 | 1324.0 | 1324.0 |
| 12.5° | 1336.2 | 1337.5 | 1334.8 | 1333.4 | 1333.4 | 1335.5 | 1333.4 | 1334.8 | 1337.5 | 1336.2 | 1335.5 |
| 15°   | 1350.9 | 1351.6 | 1350.9 | 1353.0 | 1356.3 | 1363.0 | 1357.0 | 1355.7 | 1357.0 | 1353.6 | 1353.6 |
| 17.5° | 1371.1 | 1372.5 | 1375.1 | 1379.9 | 1384.6 | 1396.7 | 1385.9 | 1382.5 | 1382.5 | 1375.9 | 1375.9 |
| 20°   | 1396.0 | 1398.0 | 1402.1 | 1410.2 | 1416.2 | 1427.6 | 1416.9 | 1412.1 | 1410.2 | 1401.4 | 1401.4 |
| 22.5° | 1422.3 | 1425.6 | 1431.7 | 1442.5 | 1453.2 | 1464.0 | 1453.2 | 1445.1 | 1439.1 | 1427.6 | 1427.0 |
| 25°   | 1452.5 | 1456.5 | 1466.0 | 1483.5 | 1498.2 | 1513.7 | 1501.0 | 1484.8 | 1472.7 | 1456.5 | 1455.9 |
| 27.5° | 1495.6 | 1500.3 | 1511.8 | 1533.3 | 1552.1 | 1565.6 | 1553.5 | 1532.6 | 1515.8 | 1496.3 | 1495.6 |
| 30°   | 1556.2 | 1560.9 | 1574.3 | 1597.2 | 1610.0 | 1618.7 | 1610.6 | 1594.5 | 1574.3 | 1552.1 | 1552.1 |
| 32.5° | 1634.2 | 1640.2 | 1655.1 | 1676.6 | 1679.3 | 1680.6 | 1677.9 | 1669.8 | 1655.1 | 1628.1 | 1628.8 |
| 35°   | 1733.1 | 1739.8 | 1756.6 | 1774.1 | 1771.4 | 1774.1 | 1770.1 | 1767.4 | 1756.6 | 1725.7 | 1725.7 |
| 37.5° | 1854.2 | 1862.2 | 1879.7 | 1893.2 | 1886.5 | 1883.1 | 1883.7 | 1884.5 | 1878.4 | 1844.1 | 1844.1 |
| 40°   | 1994.8 | 2005.5 | 2018.3 | 2032.5 | 2021.0 | 2010.9 | 2017.7 | 2023.0 | 2017.7 | 1982.7 | 1982.7 |
| 42.5° | 2139.5 | 2155.0 | 2168.4 | 2188.6 | 2179.1 | 2166.3 | 2175.8 | 2181.8 | 2170.3 | 2132.7 | 2135.4 |
| 45°   | 2300.2 | 2315.1 | 2332.5 | 2362.8 | 2356.1 | 2342.6 | 2356.1 | 2357.4 | 2337.9 | 2293.5 | 2298.3 |
| 47.5° | 2466.5 | 2481.8 | 2508.1 | 2548.5 | 2545.8 | 2531.0 | 2548.5 | 2539.0 | 2514.2 | 2461.0 | 2457.6 |
| 50°   | 2623.8 | 2645.3 | 2685.7 | 2742.3 | 2747.6 | 2729.5 | 2753.0 | 2734.8 | 2693.1 | 2626.6 | 2625.2 |
| 52.5° | 2771.8 | 2794.8 | 2858.6 | 2935.3 | 2954.9 | 2931.3 | 2963.0 | 2931.3 | 2868.8 | 2783.3 | 2775.2 |
| 55°   | 2927.3 | 2952.8 | 3028.9 | 3129.1 | 3168.1 | 3150.6 | 3180.3 | 3132.5 | 3043.6 | 2940.0 | 2926.0 |
| 57.5° | 3110.3 | 3125.7 | 3216.6 | 3335.7 | 3401.6 | 3405.6 | 3419.1 | 3338.3 | 3230.7 | 3112.9 | 3096.8 |
| 60°   | 3308.7 | 3330.2 | 3429.1 | 3571.8 | 3676.1 | 3709.7 | 3695.5 | 3575.8 | 3450.7 | 3315.5 | 3293.9 |
| 62.5° | 3563.0 | 3586.6 | 3705.0 | 3875.8 | 4040.8 | 4124.1 | 4068.9 | 3895.4 | 3740.6 | 3578.5 | 3550.3 |
| 65°   | 3773.6 | 3799.9 | 4013.8 | 4318.5 | 4618.6 | 4786.1 | 4647.6 | 4328.0 | 4049.5 | 3820.7 | 3783.1 |
| 67.5° | 3620.9 | 3653.2 | 3988.9 | 4548.6 | 5294.7 | 5794.6 | 5320.4 | 4617.3 | 4071.7 | 3761.5 | 3715.1 |
| 70°   | 3164.8 | 3195.0 | 3586.6 | 4270.8 | 5485.2 | 6580.5 | 5599.6 | 4396.6 | 3599.4 | 3252.2 | 3205.8 |
| 72.5° | 2101.0 | 2198.6 | 2594.9 | 3415.7 | 4897.9 | 6089.3 | 4946.2 | 3346.4 | 2407.2 | 2096.3 | 2028.5 |
| 75°   | 697.0  | 775.0  | 1045.5 | 1770.8 | 3280.5 | 4554.1 | 3123.1 | 1566.9 | 828.2  | 596.0  | 563.8  |
| 77.5° | 175.6  | 202.5  | 279.2  | 506.6  | 1308.5 | 2592.8 | 1178.0 | 413.8  | 225.4  | 157.4  | 140.6  |
| 80°   | 85.5   | 94.2   | 134.6  | 168.8  | 327.7  | 824.2  | 307.5  | 158.8  | 106.3  | 82.1   | 75.3   |
| 82.5° | 47.0   | 47.8   | 76.1   | 95.5   | 121.8  | 213.3  | 126.5  | 92.9   | 61.2   | 49.8   | 49.8   |
| 85°   | 28.9   | 28.3   | 40.4   | 51.1   | 51.1   | 76.1   | 60.6   | 51.1   | 35.0   | 31.0   | 32.3   |
| 87.5° | 11.5   | 11.5   | 14.8   | 16.2   | 14.1   | 19.5   | 15.5   | 16.8   | 13.4   | 12.8   | 13.4   |
| 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)