

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: P882465

Luminaire Tested: **NVN-SB2B-835-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882465  
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: STREETWORKS  
Catalog Number: NVN-SB2B-835-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

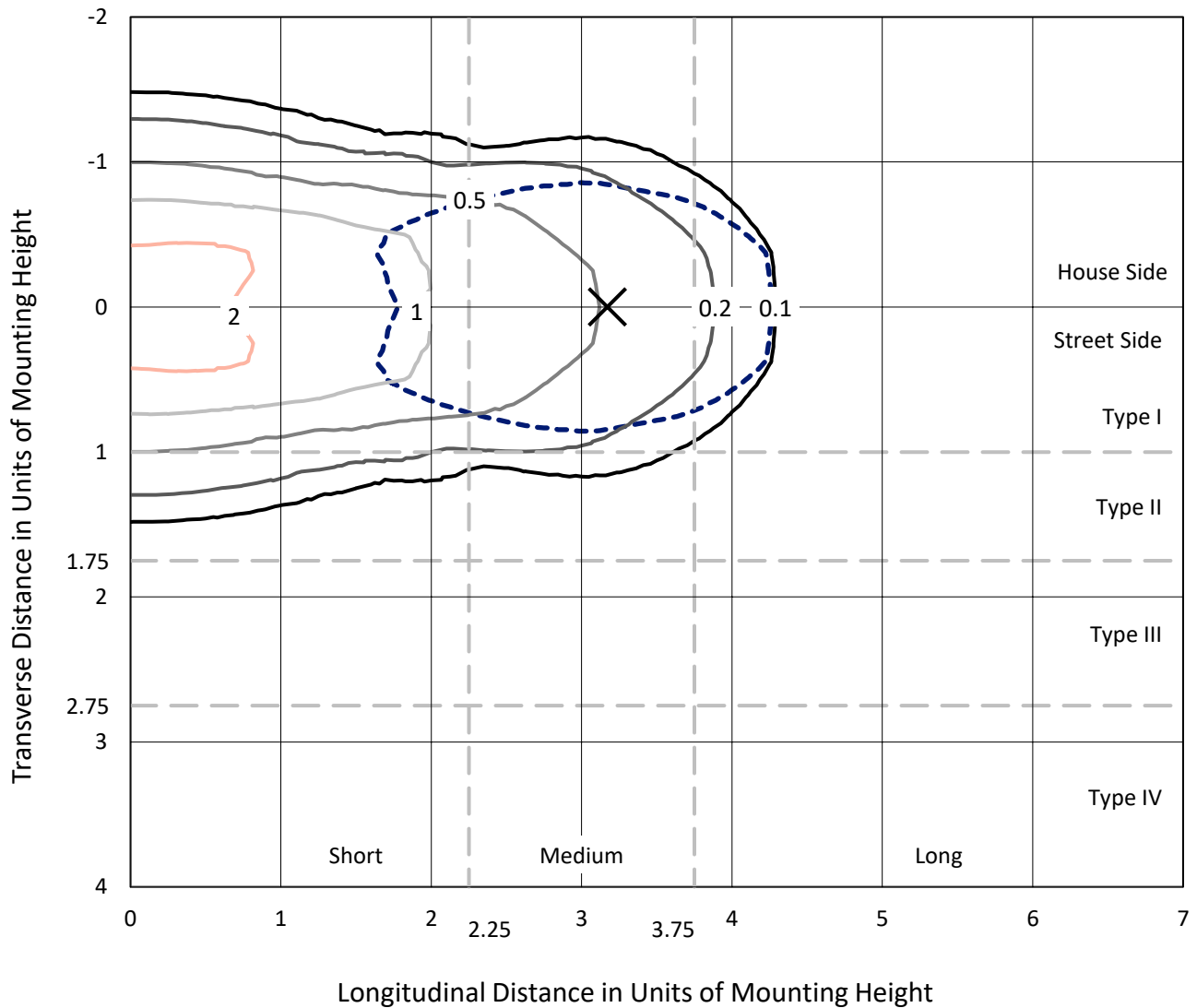
Lumens per Lamp: N/A  
Luminaire Lumens: 9579 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
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

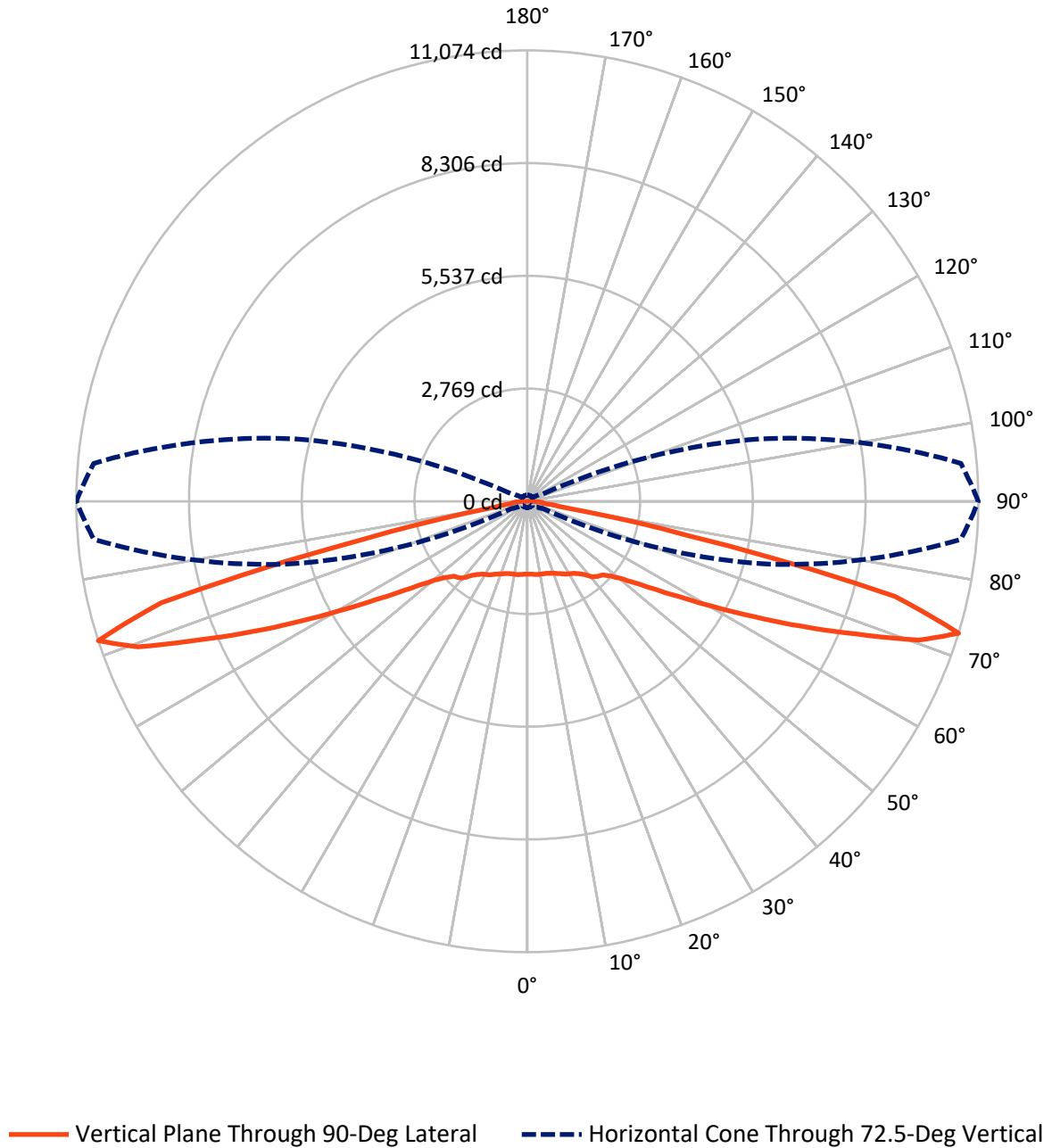
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4789.5   | 0.0    | 4789.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4789.5   | 0.0    | 4789.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9579.0   | 0.0    | 9579.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.6  | 1.8       |
| 10°-20°   | 530.7  | 5.5       |
| 20°-30°   | 884.8  | 9.2       |
| 30°-40°   | 1216.9 | 12.7      |
| 40°-50°   | 1486.2 | 15.5      |
| 50°-60°   | 1718.9 | 17.9      |
| 60°-70°   | 2049.6 | 21.4      |
| 70°-80°   | 1430.5 | 14.9      |
| 80°-90°   | 87.9   | 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°    | 9579.0 | 100.0     |
| 0°-180°   | 9579.0 | 100.0     |

**Coefficient of Utilization**



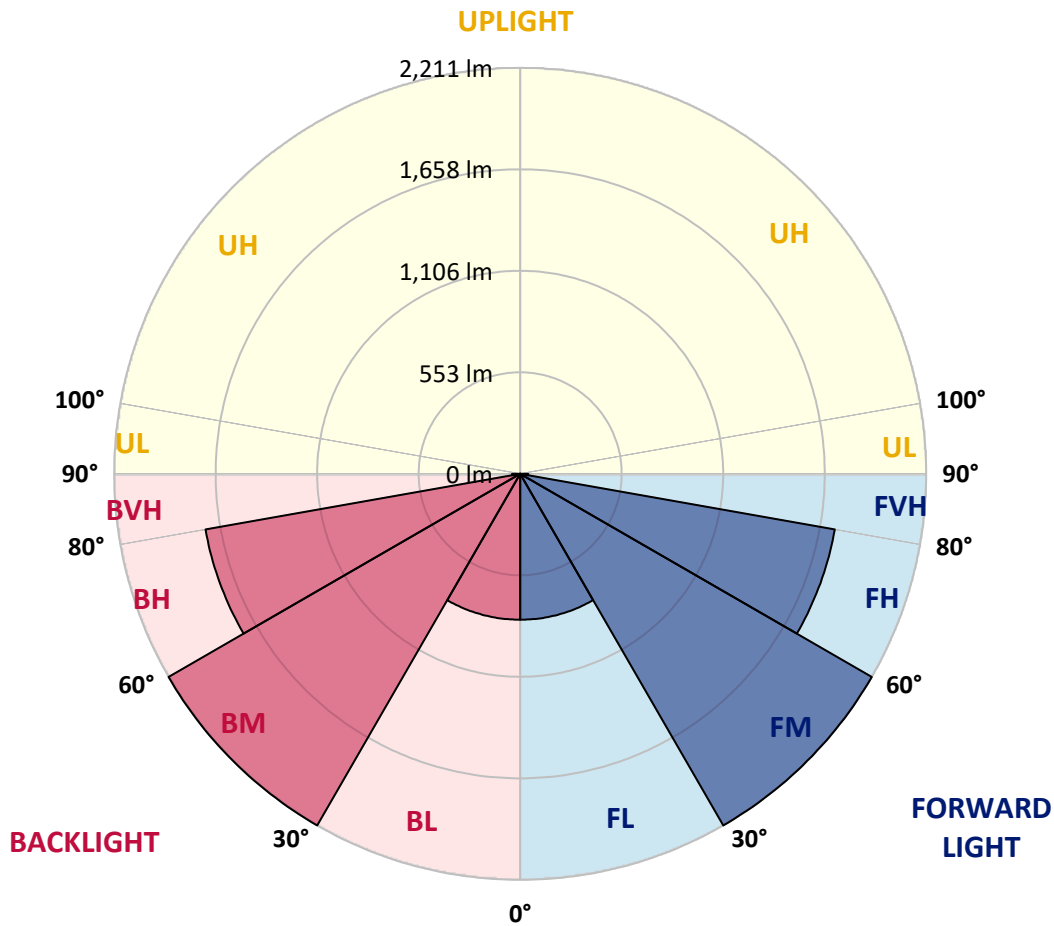
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 794.5  | 8.3       |                         |      |         |
| FM (30°-60°)   | 2211.0 | 23.1      |                         |      |         |
| FH (60°-80°)   | 1740.0 | 18.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 43.9   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 794.5  | 8.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 2211.0 | 23.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1740.0 | 18.2      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 43.9   | 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°    | 1789.9 | 1789.9 | 1789.9 | 1789.9 | 1789.9 | 1789.9 | 1789.9 | 1789.9 | 1789.9 | 1789.9  | 1789.9  |
| 2.5°  | 1791.5 | 1793.5 | 1793.5 | 1792.0 | 1795.5 | 1792.5 | 1792.5 | 1791.0 | 1792.5 | 1791.0  | 1791.0  |
| 5°    | 1800.6 | 1803.2 | 1804.2 | 1803.7 | 1808.3 | 1805.7 | 1805.7 | 1803.7 | 1804.2 | 1802.7  | 1802.7  |
| 7.5°  | 1817.9 | 1821.5 | 1823.5 | 1826.1 | 1832.7 | 1829.6 | 1827.6 | 1821.5 | 1819.0 | 1814.9  | 1814.9  |
| 10°   | 1823.5 | 1827.6 | 1834.2 | 1847.5 | 1862.7 | 1863.2 | 1857.1 | 1841.9 | 1830.2 | 1821.0  | 1819.5  |
| 12.5° | 1806.2 | 1811.8 | 1825.6 | 1852.6 | 1886.7 | 1900.4 | 1890.7 | 1865.3 | 1842.4 | 1826.1  | 1823.5  |
| 15°   | 1784.3 | 1790.4 | 1811.3 | 1852.0 | 1902.4 | 1934.5 | 1933.5 | 1899.9 | 1863.2 | 1837.8  | 1833.7  |
| 17.5° | 1750.2 | 1756.3 | 1786.4 | 1843.4 | 1914.7 | 1967.6 | 1981.9 | 1947.2 | 1895.8 | 1861.7  | 1856.1  |
| 20°   | 1688.6 | 1694.2 | 1736.0 | 1815.9 | 1918.7 | 2002.7 | 2039.9 | 2009.4 | 1945.2 | 1898.9  | 1890.2  |
| 22.5° | 1608.7 | 1617.4 | 1666.2 | 1768.6 | 1909.1 | 2039.4 | 2106.1 | 2085.2 | 2002.7 | 1938.6  | 1926.9  |
| 25°   | 1523.2 | 1532.3 | 1589.4 | 1710.5 | 1884.1 | 2065.9 | 2184.5 | 2171.2 | 2067.9 | 1988.0  | 1971.7  |
| 27.5° | 1449.4 | 1459.0 | 1521.1 | 1653.0 | 1845.4 | 2076.0 | 2261.9 | 2268.5 | 2146.8 | 2042.4  | 2025.1  |
| 30°   | 1391.3 | 1400.5 | 1466.7 | 1606.7 | 1795.5 | 2065.9 | 2329.6 | 2375.4 | 2227.2 | 2089.8  | 2064.8  |
| 32.5° | 1327.7 | 1339.4 | 1409.1 | 1550.2 | 1736.5 | 2041.4 | 2388.6 | 2490.9 | 2320.4 | 2140.7  | 2109.1  |
| 35°   | 1247.3 | 1257.9 | 1331.3 | 1472.8 | 1659.1 | 2002.2 | 2438.0 | 2619.2 | 2453.8 | 2218.1  | 2182.9  |
| 37.5° | 1149.5 | 1159.7 | 1232.5 | 1376.1 | 1582.2 | 1947.2 | 2475.7 | 2763.8 | 2612.6 | 2329.6  | 2282.7  |
| 40°   | 1051.3 | 1060.9 | 1129.1 | 1268.1 | 1490.1 | 1877.0 | 2488.9 | 2905.3 | 2794.9 | 2482.8  | 2432.9  |
| 42.5° | 961.1  | 969.8  | 1032.4 | 1161.7 | 1386.7 | 1787.4 | 2471.6 | 3028.5 | 2958.3 | 2589.7  | 2525.6  |
| 45°   | 878.2  | 885.8  | 941.3  | 1061.9 | 1279.3 | 1678.4 | 2419.7 | 3160.9 | 3152.8 | 2666.1  | 2579.5  |
| 47.5° | 783.5  | 791.1  | 848.6  | 965.2  | 1171.9 | 1550.7 | 2331.6 | 3291.2 | 3423.1 | 2839.2  | 2739.4  |
| 50°   | 667.9  | 674.5  | 733.6  | 853.7  | 1060.4 | 1414.7 | 2209.4 | 3393.6 | 3764.2 | 3101.3  | 2976.1  |
| 52.5° | 531.0  | 538.1  | 595.6  | 715.8  | 928.1  | 1268.6 | 2048.6 | 3460.2 | 4158.2 | 3484.2  | 3329.9  |
| 55°   | 395.0  | 400.1  | 450.0  | 558.0  | 764.1  | 1102.2 | 1847.0 | 3479.1 | 4605.2 | 4007.5  | 3814.6  |
| 57.5° | 286.6  | 289.7  | 321.7  | 402.2  | 579.3  | 894.0  | 1602.1 | 3430.2 | 5137.2 | 4678.5  | 4435.6  |
| 60°   | 232.1  | 233.2  | 242.8  | 278.5  | 402.7  | 658.8  | 1306.3 | 3262.2 | 5714.5 | 5543.4  | 5237.5  |
| 62.5° | 210.8  | 210.8  | 213.3  | 223.0  | 272.4  | 434.8  | 948.4  | 2914.0 | 6333.5 | 6636.4  | 6226.6  |
| 65°   | 196.0  | 196.0  | 197.0  | 201.6  | 214.8  | 276.9  | 598.7  | 2346.9 | 6855.3 | 7916.8  | 7398.5  |
| 67.5° | 182.8  | 183.3  | 182.8  | 184.3  | 191.9  | 204.7  | 347.2  | 1620.9 | 7136.3 | 9243.4  | 8683.9  |
| 70°   | 169.0  | 170.0  | 167.5  | 167.5  | 173.6  | 174.1  | 217.4  | 888.9  | 6903.2 | 10355.3 | 10208.1 |
| 72.5° | 152.7  | 154.3  | 150.2  | 149.2  | 153.7  | 151.7  | 163.4  | 426.6  | 5926.7 | 10687.2 | 11074.1 |
| 75°   | 138.5  | 140.5  | 131.3  | 128.8  | 128.8  | 127.3  | 132.9  | 218.9  | 3846.6 | 8718.1  | 9324.9  |
| 77.5° | 125.7  | 129.8  | 115.1  | 106.9  | 104.9  | 100.3  | 108.4  | 133.9  | 1682.5 | 4093.0  | 4008.0  |
| 80°   | 103.9  | 109.5  | 94.7   | 85.0   | 81.5   | 76.4   | 85.5   | 93.7   | 500.4  | 950.5   | 910.2   |
| 82.5° | 77.4   | 79.9   | 67.2   | 60.6   | 57.5   | 54.0   | 64.1   | 65.2   | 162.9  | 336.5   | 380.3   |
| 85°   | 49.4   | 50.4   | 41.2   | 35.6   | 34.1   | 32.6   | 40.7   | 35.6   | 62.1   | 247.4   | 359.4   |
| 87.5° | 17.3   | 19.9   | 15.8   | 14.3   | 15.3   | 12.7   | 18.8   | 10.7   | 17.3   | 174.6   | 216.4   |
| 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)