

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: P510018

Luminaire Tested: **VERD-M-CA4-190-722-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-190-722-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 870mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23202 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

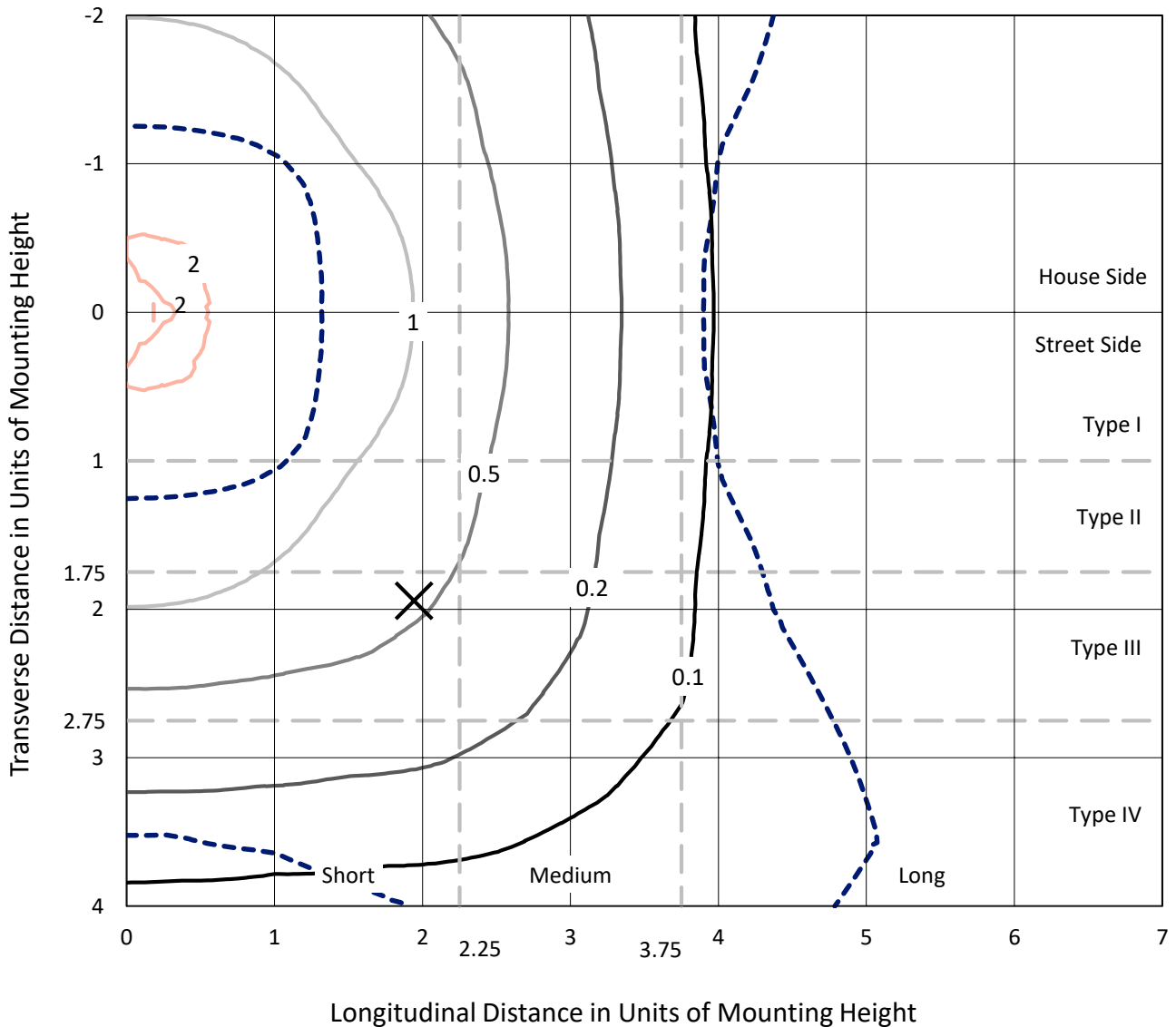
Input Watts (W): 193.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

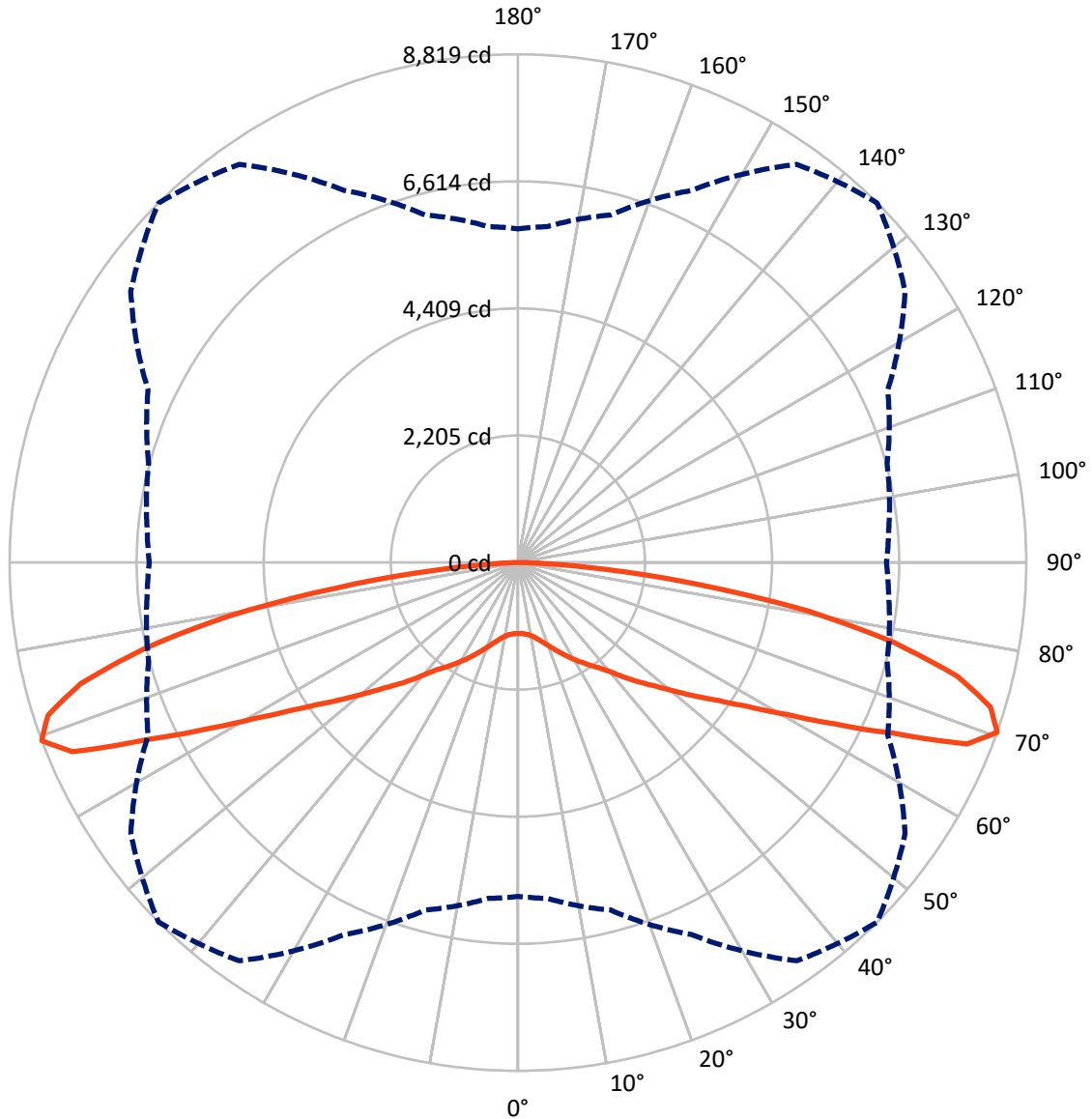
✕ Max cd  
 - - - 1/2 Max cd



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    | 11601.0  | 0.0    | 11601.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11601.0  | 0.0    | 11601.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23202.0  | 0.0    | 23202.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 120.7   | 0.5       |
| 10°-20°   | 399.5   | 1.7       |
| 20°-30°   | 798.9   | 3.4       |
| 30°-40°   | 1390.1  | 6.0       |
| 40°-50°   | 2418.5  | 10.4      |
| 50°-60°   | 4210.8  | 18.1      |
| 60°-70°   | 6819.7  | 29.4      |
| 70°-80°   | 5850.6  | 25.2      |
| 80°-90°   | 1193.4  | 5.1       |
| 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°    | 23202.0 | 100.0     |
| 0°-180°   | 23202.0 | 100.0     |



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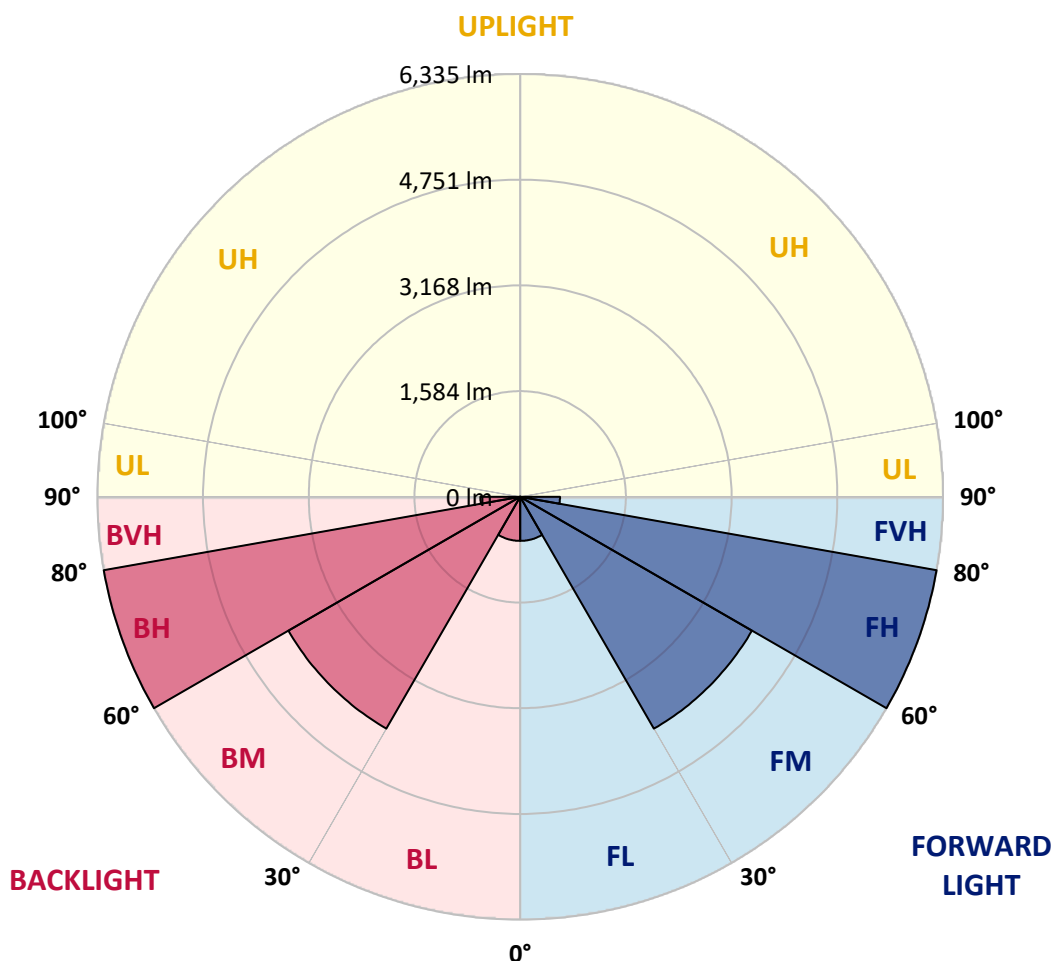
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 659.5  | 2.8       |                         |      |         |
| FM   | (30°-60°)   | 4009.7 | 17.3      |                         |      |         |
| FH   | (60°-80°)   | 6335.1 | 27.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 596.7  | 2.6       |                         |      | G4/750  |
| BL   | (0°-30°)    | 659.5  | 2.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4009.7 | 17.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 6335.1 | 27.3      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 596.7  | 2.6       |                         |      | G4/750  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 |
| 2.5°  | 1230.0 | 1237.1 | 1236.1 | 1234.1 | 1231.0 | 1231.0 | 1233.1 | 1240.2 | 1241.2 | 1241.2 | 1241.2 |
| 5°    | 1244.3 | 1251.4 | 1250.4 | 1248.3 | 1245.3 | 1244.3 | 1246.3 | 1253.4 | 1254.4 | 1254.4 | 1255.5 |
| 7.5°  | 1260.5 | 1268.7 | 1268.7 | 1267.7 | 1260.5 | 1260.5 | 1262.6 | 1271.7 | 1271.7 | 1273.8 | 1275.8 |
| 10°   | 1288.0 | 1297.2 | 1300.3 | 1296.2 | 1292.1 | 1290.1 | 1292.1 | 1301.3 | 1300.3 | 1298.2 | 1299.2 |
| 12.5° | 1325.7 | 1334.9 | 1342.0 | 1341.0 | 1336.9 | 1334.9 | 1336.9 | 1342.0 | 1335.9 | 1327.7 | 1327.7 |
| 15°   | 1372.5 | 1384.8 | 1392.9 | 1392.9 | 1398.0 | 1394.9 | 1391.9 | 1392.9 | 1383.7 | 1376.6 | 1376.6 |
| 17.5° | 1432.6 | 1442.8 | 1449.9 | 1456.0 | 1464.2 | 1464.2 | 1457.1 | 1455.0 | 1442.8 | 1436.7 | 1437.7 |
| 20°   | 1505.9 | 1514.1 | 1524.3 | 1529.4 | 1545.6 | 1546.7 | 1534.4 | 1529.4 | 1517.1 | 1509.0 | 1511.0 |
| 22.5° | 1585.4 | 1599.6 | 1603.7 | 1619.0 | 1638.3 | 1639.3 | 1623.0 | 1611.8 | 1599.6 | 1593.5 | 1594.5 |
| 25°   | 1681.1 | 1695.3 | 1692.3 | 1705.5 | 1735.0 | 1738.1 | 1719.8 | 1703.5 | 1693.3 | 1687.2 | 1689.2 |
| 27.5° | 1785.9 | 1800.2 | 1799.2 | 1799.2 | 1833.8 | 1847.0 | 1821.6 | 1804.3 | 1806.3 | 1795.1 | 1799.2 |
| 30°   | 1897.9 | 1910.2 | 1917.3 | 1905.1 | 1938.7 | 1960.1 | 1919.3 | 1921.4 | 1920.3 | 1913.2 | 1912.2 |
| 32.5° | 2029.3 | 2040.5 | 2039.5 | 2031.3 | 2041.5 | 2072.1 | 2039.5 | 2049.7 | 2052.7 | 2053.7 | 2061.9 |
| 35°   | 2179.0 | 2192.2 | 2178.0 | 2166.8 | 2167.8 | 2197.3 | 2172.9 | 2189.2 | 2205.4 | 2211.6 | 2211.6 |
| 37.5° | 2338.8 | 2346.0 | 2330.7 | 2313.4 | 2309.3 | 2325.6 | 2321.5 | 2348.0 | 2375.5 | 2390.8 | 2398.9 |
| 40°   | 2545.5 | 2551.6 | 2522.1 | 2488.5 | 2482.4 | 2500.7 | 2505.8 | 2563.9 | 2605.6 | 2634.1 | 2639.2 |
| 42.5° | 2832.7 | 2831.6 | 2789.9 | 2727.8 | 2698.3 | 2726.8 | 2763.4 | 2830.6 | 2900.9 | 2907.0 | 2928.4 |
| 45°   | 3202.3 | 3188.0 | 3134.1 | 3041.4 | 2967.1 | 2956.9 | 3000.7 | 3100.5 | 3178.9 | 3212.5 | 3225.7 |
| 47.5° | 3623.8 | 3607.5 | 3509.8 | 3366.2 | 3238.9 | 3199.2 | 3235.9 | 3361.1 | 3478.2 | 3527.1 | 3553.6 |
| 50°   | 4094.2 | 4074.9 | 3976.1 | 3781.6 | 3569.8 | 3497.6 | 3520.0 | 3675.7 | 3812.2 | 3874.3 | 3921.1 |
| 52.5° | 4600.3 | 4597.2 | 4471.0 | 4247.0 | 3963.9 | 3846.8 | 3839.7 | 4027.0 | 4210.3 | 4292.8 | 4318.2 |
| 55°   | 5143.0 | 5127.7 | 5014.7 | 4771.3 | 4443.5 | 4224.6 | 4225.6 | 4433.3 | 4657.3 | 4765.2 | 4777.4 |
| 57.5° | 5675.5 | 5669.4 | 5544.2 | 5336.4 | 5001.5 | 4713.3 | 4684.8 | 4960.7 | 5186.8 | 5275.4 | 5279.4 |
| 60°   | 6178.5 | 6197.9 | 6132.7 | 5942.3 | 5672.5 | 5346.6 | 5304.9 | 5538.1 | 5730.5 | 5806.9 | 5834.4 |
| 62.5° | 6738.5 | 6744.6 | 6736.5 | 6596.0 | 6390.3 | 6170.4 | 6067.5 | 6186.7 | 6377.1 | 6440.2 | 6426.9 |
| 65°   | 7138.7 | 7178.4 | 7271.0 | 7343.3 | 7299.6 | 7131.6 | 6996.1 | 7002.2 | 7039.9 | 6999.2 | 6996.1 |
| 67.5° | 6628.6 | 6715.1 | 7030.7 | 7538.8 | 8137.5 | 8399.2 | 7849.4 | 7235.4 | 7007.3 | 6859.7 | 6858.7 |
| 70°   | 5791.6 | 5849.6 | 6243.7 | 7122.4 | 8433.8 | 8818.7 | 8198.6 | 7078.6 | 6631.6 | 6456.5 | 6394.4 |
| 72.5° | 4927.1 | 4972.9 | 5406.7 | 6303.7 | 7963.4 | 8571.3 | 7975.6 | 6618.4 | 6029.8 | 5643.9 | 5651.1 |
| 75°   | 4103.4 | 4096.3 | 4424.1 | 5345.6 | 7049.1 | 7871.8 | 7385.1 | 5890.4 | 5052.4 | 4701.1 | 4661.4 |
| 77.5° | 2844.9 | 2910.0 | 3282.7 | 4224.6 | 5715.2 | 6661.1 | 6589.9 | 4848.7 | 3872.3 | 3497.6 | 3522.0 |
| 80°   | 1490.7 | 1531.4 | 1973.3 | 2868.3 | 4181.8 | 5109.4 | 5015.7 | 3429.3 | 2501.7 | 2087.3 | 2008.9 |
| 82.5° | 621.1  | 647.6  | 902.1  | 1549.7 | 2555.7 | 3179.9 | 3137.1 | 2090.4 | 1394.9 | 971.4  | 969.3  |
| 85°   | 263.7  | 264.7  | 382.8  | 663.9  | 1290.1 | 1511.0 | 1212.7 | 898.1  | 488.7  | 306.5  | 273.9  |
| 87.5° | 112.0  | 116.1  | 155.8  | 304.4  | 408.3  | 329.9  | 194.5  | 120.1  | 80.4   | 48.9   | 37.7   |
| 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)