

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: P509842

Luminaire Tested: **VERD-M-CA3-150-730-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509842  
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-CA3-150-730-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 940mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22374 lumens  
Efficiency: N/A  
Efficacy: 146.2 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

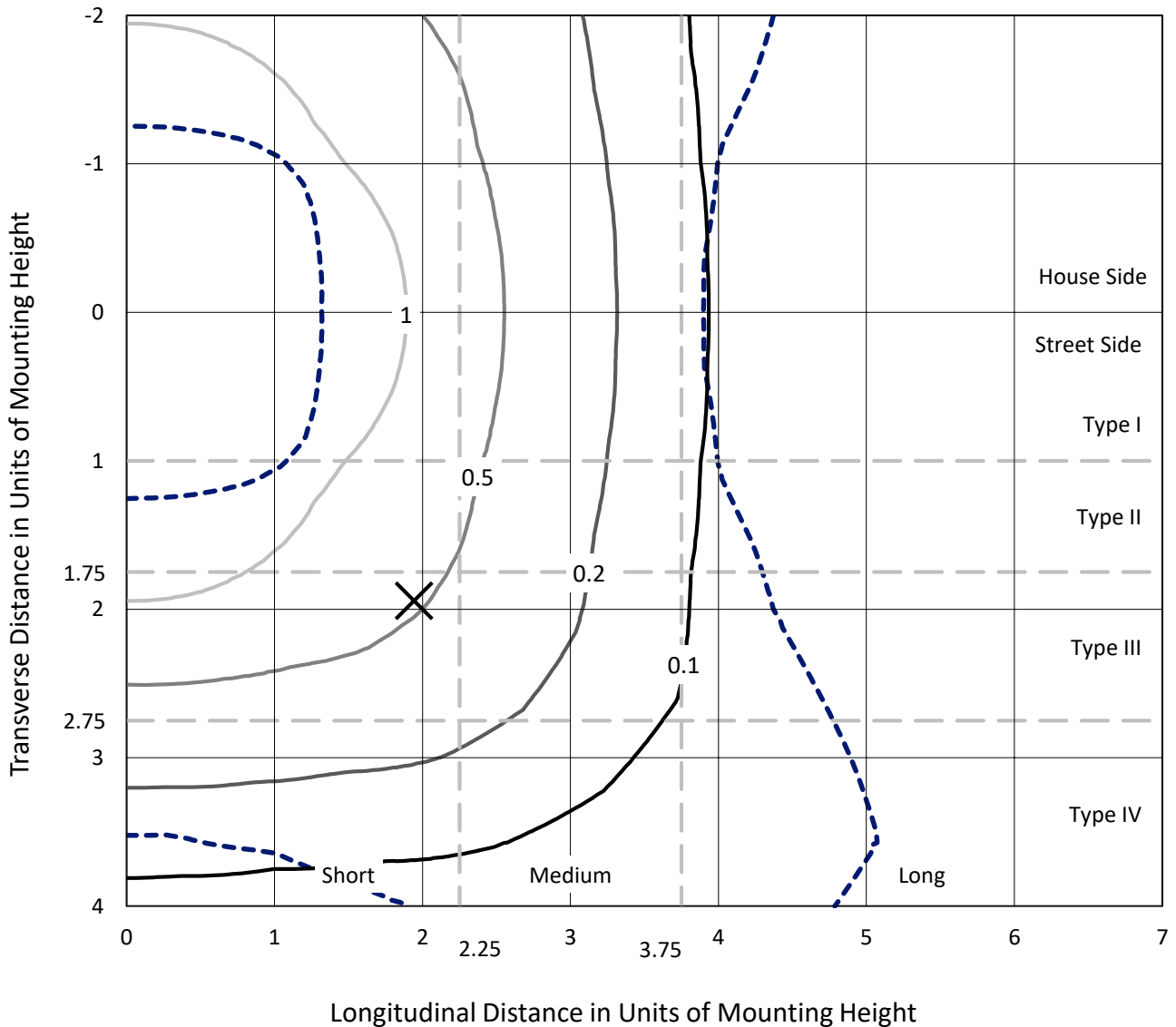
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

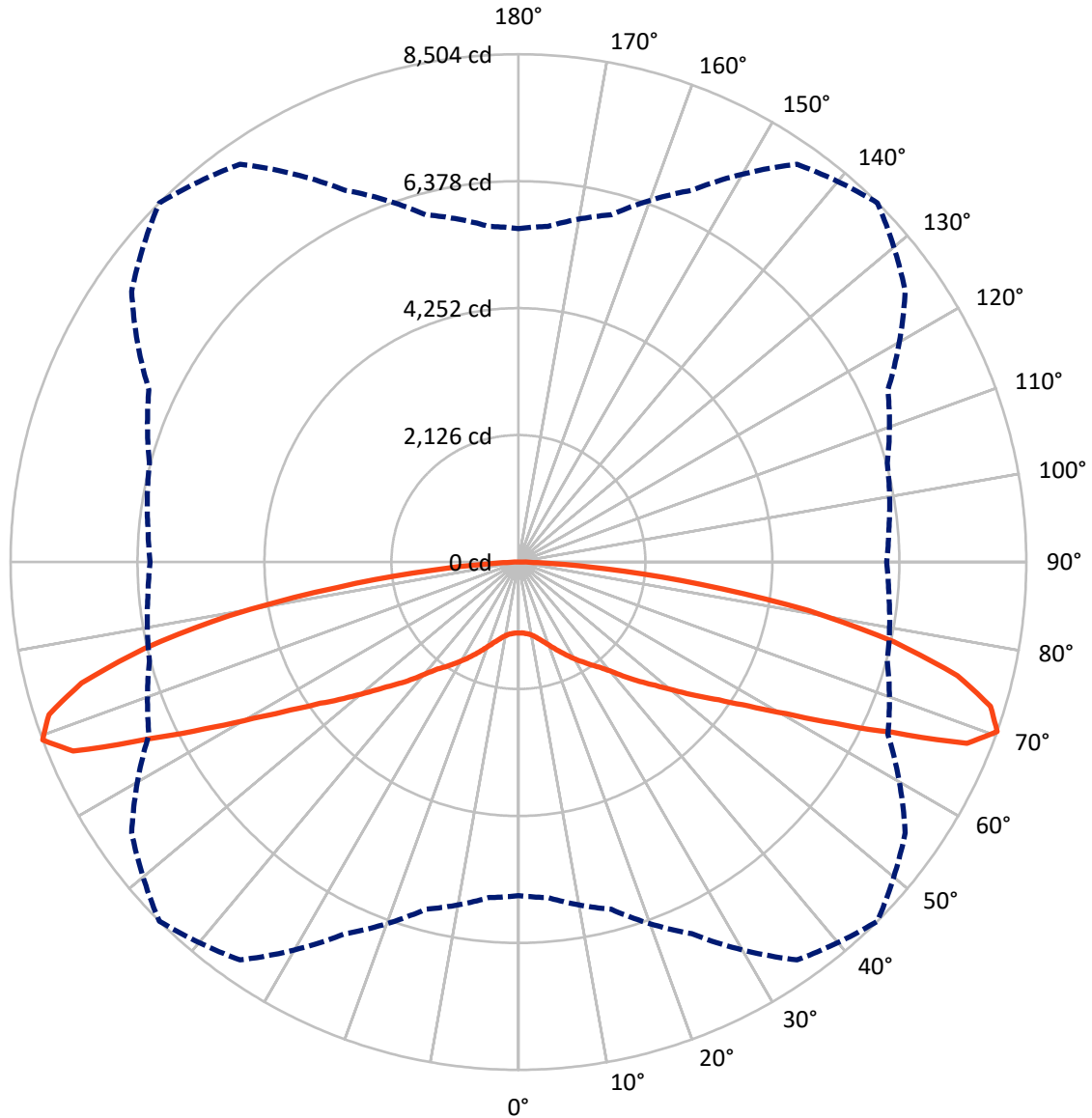
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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    | 11187.0  | 0.0    | 11187.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11187.0  | 0.0    | 11187.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22374.0  | 0.0    | 22374.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 116.4   | 0.5       |
| 10°-20°   | 385.2   | 1.7       |
| 20°-30°   | 770.4   | 3.4       |
| 30°-40°   | 1340.5  | 6.0       |
| 40°-50°   | 2332.1  | 10.4      |
| 50°-60°   | 4060.5  | 18.1      |
| 60°-70°   | 6576.3  | 29.4      |
| 70°-80°   | 5641.8  | 25.2      |
| 80°-90°   | 1150.8  | 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°    | 22374.0 | 100.0     |
| 0°-180°   | 22374.0 | 100.0     |



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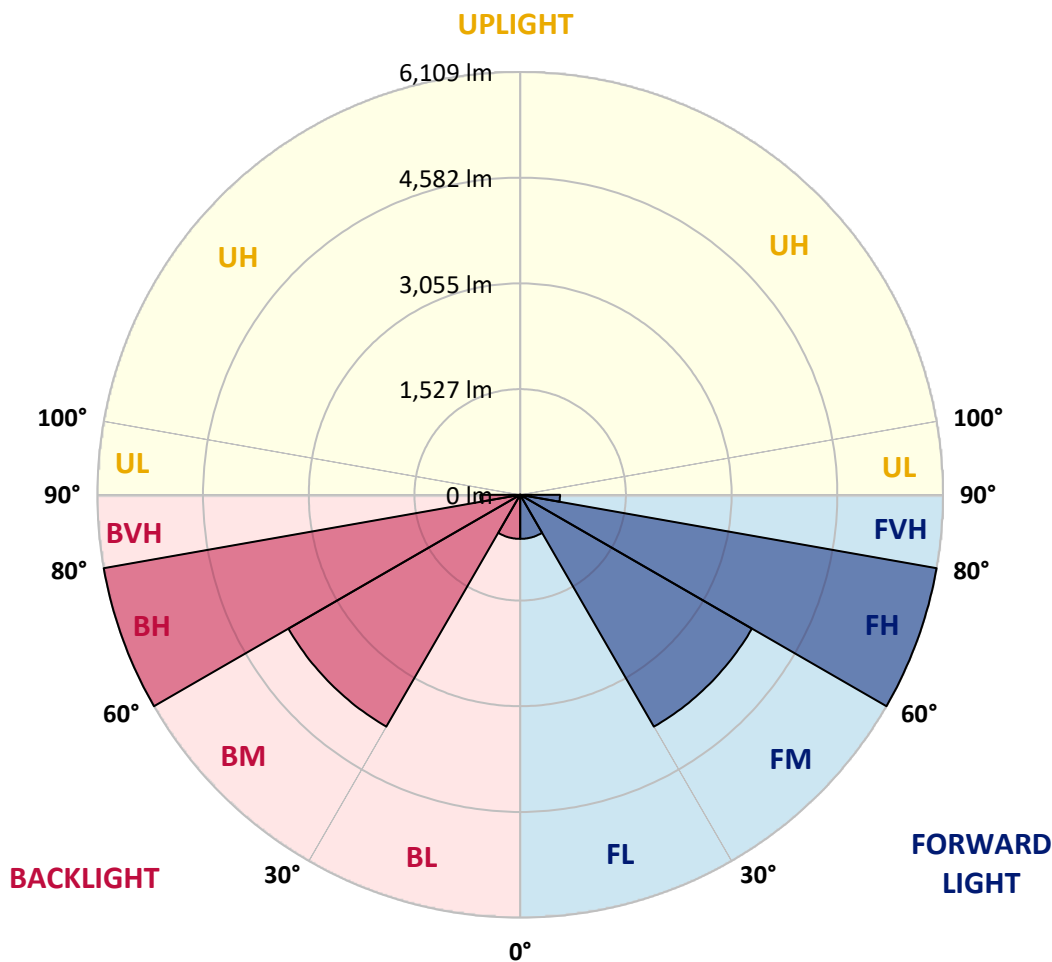
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 636.0  | 2.8       |                         |      |         |
| FM (30°-60°)   | 3866.6 | 17.3      |                         |      |         |
| FH (60°-80°)   | 6109.1 | 27.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 575.4  | 2.6       |                         |      | G4/750  |
| BL (0°-30°)    | 636.0  | 2.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 3866.6 | 17.3      | B3/5000                 |      |         |
| BH (60°-80°)   | 6109.1 | 27.3      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 575.4  | 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°    | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 |
| 2.5°  | 1186.1 | 1193.0 | 1192.0 | 1190.0 | 1187.1 | 1187.1 | 1189.1 | 1195.9 | 1196.9 | 1196.9 | 1196.9 |
| 5°    | 1199.9 | 1206.7 | 1205.7 | 1203.8 | 1200.8 | 1199.9 | 1201.8 | 1208.7 | 1209.7 | 1209.7 | 1210.7 |
| 7.5°  | 1215.6 | 1223.4 | 1223.4 | 1222.4 | 1215.6 | 1215.6 | 1217.5 | 1226.4 | 1226.4 | 1228.3 | 1230.3 |
| 10°   | 1242.1 | 1250.9 | 1253.9 | 1249.9 | 1246.0 | 1244.0 | 1246.0 | 1254.8 | 1253.9 | 1251.9 | 1252.9 |
| 12.5° | 1278.4 | 1287.2 | 1294.1 | 1293.1 | 1289.2 | 1287.2 | 1289.2 | 1294.1 | 1288.2 | 1280.4 | 1280.4 |
| 15°   | 1323.6 | 1335.3 | 1343.2 | 1343.2 | 1348.1 | 1345.2 | 1342.2 | 1343.2 | 1334.4 | 1327.5 | 1327.5 |
| 17.5° | 1381.5 | 1391.3 | 1398.2 | 1404.1 | 1411.9 | 1411.9 | 1405.1 | 1403.1 | 1391.3 | 1385.4 | 1386.4 |
| 20°   | 1452.2 | 1460.0 | 1469.9 | 1474.8 | 1490.5 | 1491.5 | 1479.7 | 1474.8 | 1463.0 | 1455.1 | 1457.1 |
| 22.5° | 1528.8 | 1542.5 | 1546.5 | 1561.2 | 1579.8 | 1580.8 | 1565.1 | 1554.3 | 1542.5 | 1536.6 | 1537.6 |
| 25°   | 1621.1 | 1634.8 | 1631.9 | 1644.6 | 1673.1 | 1676.1 | 1658.4 | 1642.7 | 1632.9 | 1627.0 | 1628.9 |
| 27.5° | 1722.2 | 1736.0 | 1735.0 | 1735.0 | 1768.4 | 1781.1 | 1756.6 | 1739.9 | 1741.8 | 1731.0 | 1735.0 |
| 30°   | 1830.2 | 1842.0 | 1848.9 | 1837.1 | 1869.5 | 1890.1 | 1850.8 | 1852.8 | 1851.8 | 1844.9 | 1844.0 |
| 32.5° | 1956.9 | 1967.7 | 1966.7 | 1958.8 | 1968.7 | 1998.1 | 1966.7 | 1976.5 | 1979.5 | 1980.4 | 1988.3 |
| 35°   | 2101.2 | 2114.0 | 2100.2 | 2089.4 | 2090.4 | 2118.9 | 2095.3 | 2111.0 | 2126.7 | 2132.6 | 2132.6 |
| 37.5° | 2255.4 | 2262.2 | 2247.5 | 2230.8 | 2226.9 | 2242.6 | 2238.7 | 2264.2 | 2290.7 | 2305.4 | 2313.3 |
| 40°   | 2454.7 | 2460.6 | 2432.1 | 2399.7 | 2393.8 | 2411.5 | 2416.4 | 2472.4 | 2512.6 | 2540.1 | 2545.0 |
| 42.5° | 2731.6 | 2730.6 | 2690.3 | 2630.4 | 2602.0 | 2629.5 | 2664.8 | 2729.6 | 2797.4 | 2803.3 | 2823.9 |
| 45°   | 3088.0 | 3074.2 | 3022.2 | 2932.9 | 2861.2 | 2851.4 | 2893.6 | 2989.8 | 3065.4 | 3097.8 | 3110.6 |
| 47.5° | 3494.5 | 3478.8 | 3384.5 | 3246.1 | 3123.3 | 3085.1 | 3120.4 | 3241.2 | 3354.1 | 3401.2 | 3426.7 |
| 50°   | 3948.1 | 3929.5 | 3834.2 | 3646.7 | 3442.5 | 3372.7 | 3394.3 | 3544.6 | 3676.1 | 3736.0 | 3781.2 |
| 52.5° | 4436.1 | 4433.2 | 4311.4 | 4095.4 | 3822.4 | 3709.5 | 3702.6 | 3883.3 | 4060.1 | 4139.6 | 4164.1 |
| 55°   | 4959.4 | 4944.7 | 4835.7 | 4601.1 | 4284.9 | 4073.8 | 4074.8 | 4275.1 | 4491.1 | 4595.2 | 4607.0 |
| 57.5° | 5473.0 | 5467.1 | 5346.3 | 5146.0 | 4823.0 | 4545.1 | 4517.6 | 4783.7 | 5001.7 | 5087.1 | 5091.0 |
| 60°   | 5958.0 | 5976.7 | 5913.8 | 5730.2 | 5470.0 | 5155.8 | 5115.6 | 5340.4 | 5526.0 | 5599.6 | 5626.1 |
| 62.5° | 6498.0 | 6503.9 | 6496.1 | 6360.6 | 6162.2 | 5950.2 | 5851.0 | 5965.9 | 6149.5 | 6210.4 | 6197.6 |
| 65°   | 6883.9 | 6922.2 | 7011.6 | 7081.3 | 7039.1 | 6877.1 | 6746.5 | 6752.4 | 6788.7 | 6749.4 | 6746.5 |
| 67.5° | 6392.0 | 6475.5 | 6779.8 | 7269.8 | 7847.1 | 8099.5 | 7569.3 | 6977.2 | 6757.3 | 6614.9 | 6613.9 |
| 70°   | 5584.9 | 5640.9 | 6020.9 | 6868.2 | 8132.9 | 8504.0 | 7906.1 | 6826.0 | 6395.0 | 6226.1 | 6166.2 |
| 72.5° | 4751.3 | 4795.5 | 5213.8 | 6078.8 | 7679.2 | 8265.4 | 7691.0 | 6382.2 | 5814.7 | 5442.5 | 5449.4 |
| 75°   | 3957.0 | 3950.1 | 4266.2 | 5154.8 | 6797.5 | 7590.9 | 7121.5 | 5680.1 | 4872.1 | 4533.3 | 4495.0 |
| 77.5° | 2743.4 | 2806.2 | 3165.6 | 4073.8 | 5511.3 | 6423.4 | 6354.7 | 4675.7 | 3734.1 | 3372.7 | 3396.3 |
| 80°   | 1437.5 | 1476.7 | 1902.9 | 2765.9 | 4032.6 | 4927.0 | 4836.7 | 3307.0 | 2412.5 | 2012.8 | 1937.2 |
| 82.5° | 598.9  | 624.5  | 869.9  | 1494.4 | 2464.5 | 3066.4 | 3025.2 | 2015.8 | 1345.2 | 936.7  | 934.7  |
| 85°   | 254.3  | 255.3  | 369.2  | 640.2  | 1244.0 | 1457.1 | 1169.4 | 866.0  | 471.3  | 295.5  | 264.1  |
| 87.5° | 108.0  | 111.9  | 150.2  | 293.6  | 393.7  | 318.1  | 187.5  | 115.9  | 77.6   | 47.1   | 36.3   |
| 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)