

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: P316133

Luminaire Tested: **GAN-SA9C-730-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60655 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

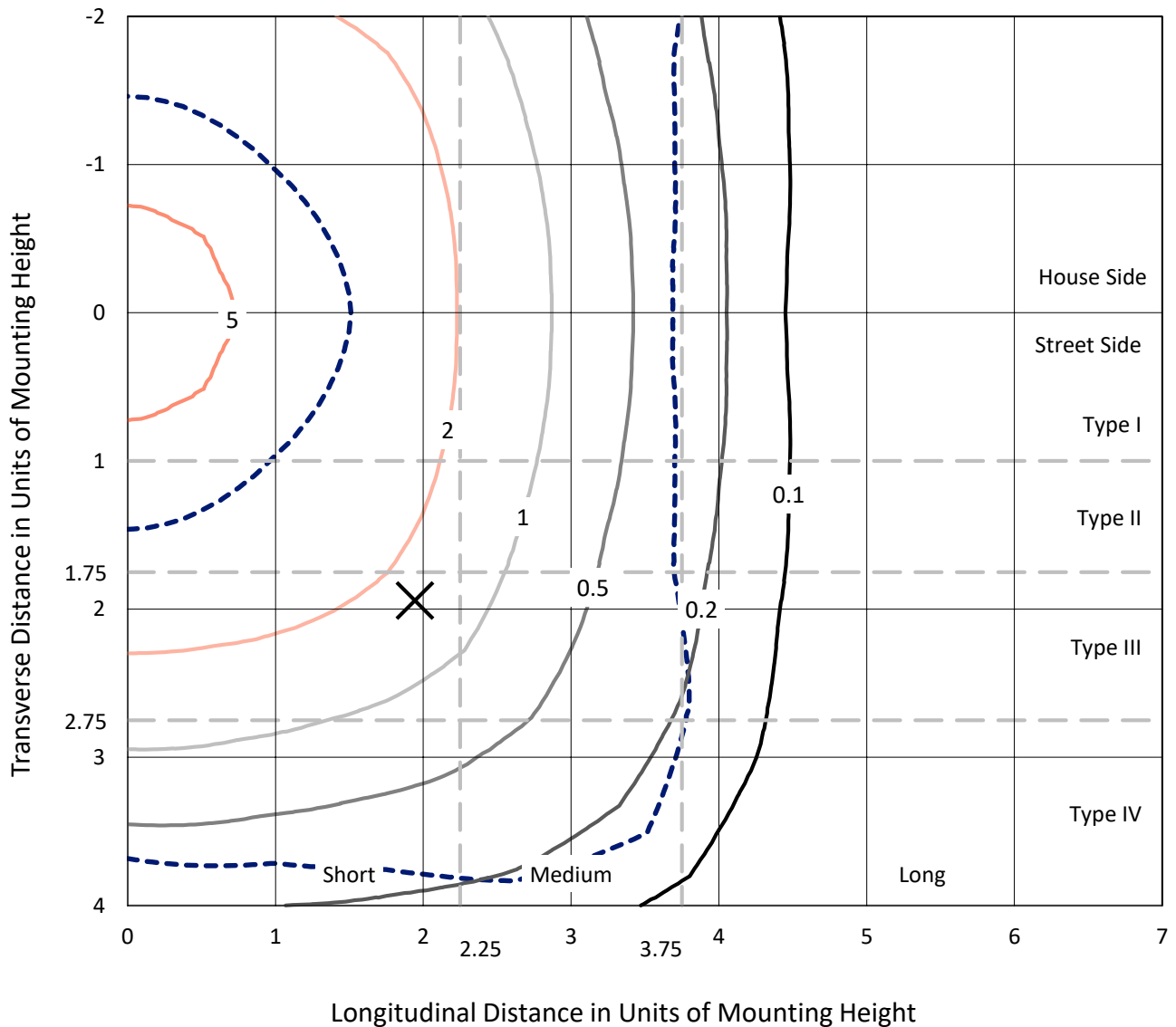
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

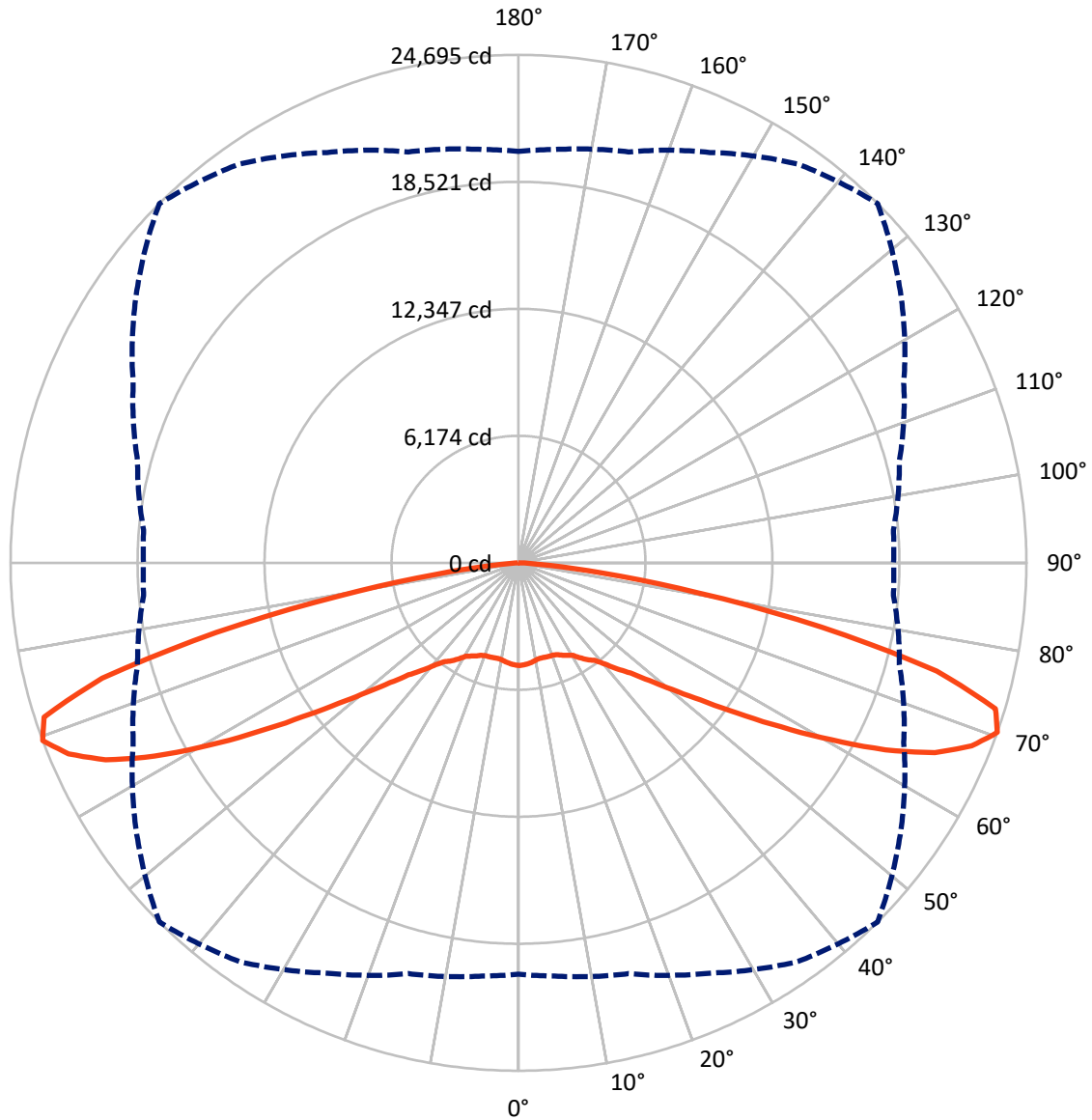
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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    | 30327.5  | 0.0    | 30327.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 30327.5  | 0.0    | 30327.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 60655.0  | 0.0    | 60655.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 465.9   | 0.8       |
| 10°-20°   | 1360.9  | 2.2       |
| 20°-30°   | 2320.4  | 3.8       |
| 30°-40°   | 3625.6  | 6.0       |
| 40°-50°   | 6144.6  | 10.1      |
| 50°-60°   | 11205.2 | 18.5      |
| 60°-70°   | 19290.5 | 31.8      |
| 70°-80°   | 15120.6 | 24.9      |
| 80°-90°   | 1121.2  | 1.8       |
| 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°    | 60655.0 | 100.0     |
| 0°-180°   | 60655.0 | 100.0     |

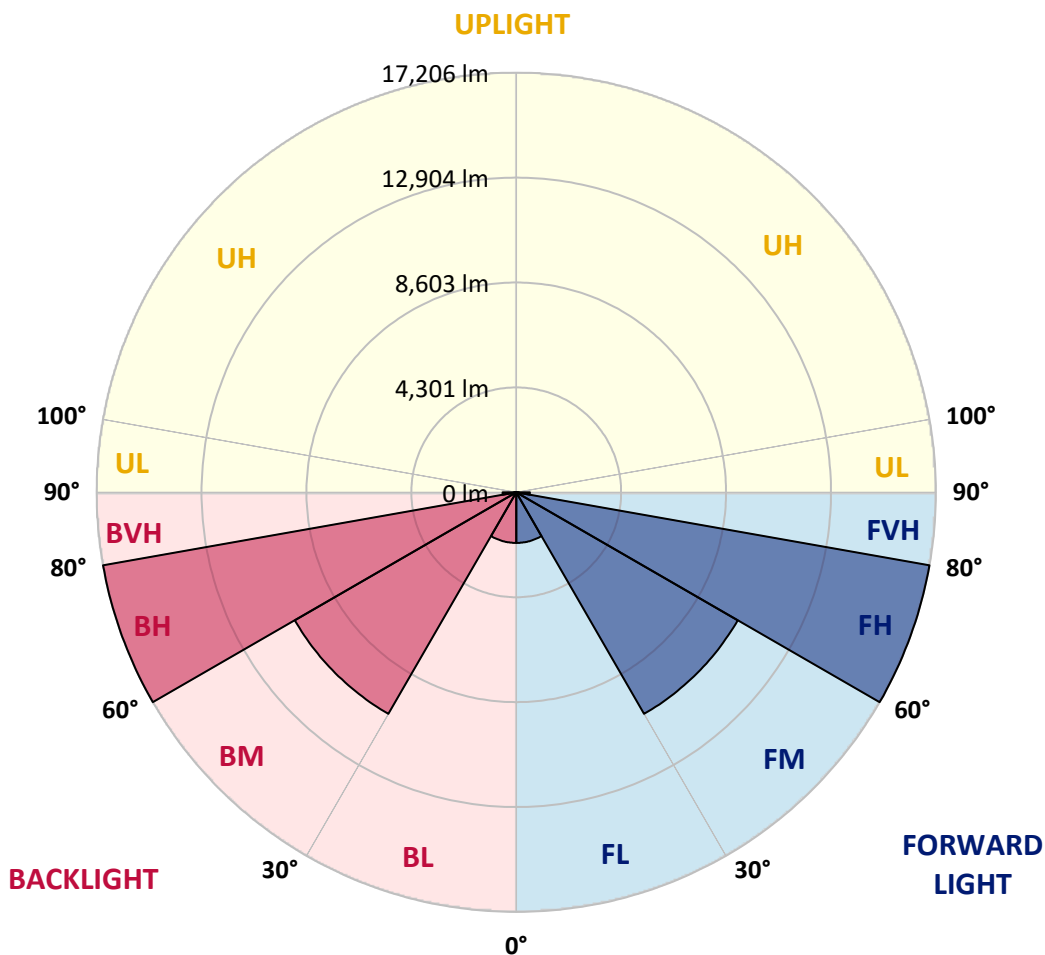


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 2073.6  | 3.4       |                         |      |        |
| FM (30°-60°)   | 10487.7 | 17.3      |                         |      |        |
| FH (60°-80°)   | 17205.6 | 28.4      |                         |      | G5     |
| FVH (80°-90°)  | 560.6   | 0.9       |                         |      | G4/750 |
| BL (0°-30°)    | 2073.6  | 3.4       | B3/2500                 |      |        |
| BM (30°-60°)   | 10487.7 | 17.3      | B5                      |      |        |
| BH (60°-80°)   | 17205.6 | 28.4      | B5                      |      | G5     |
| BVH (80°-90°)  | 560.6   | 0.9       |                         |      | G4/750 |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4991.9  | 4991.9  | 4991.9  | 4991.9  | 4991.9  | 4991.9  | 4991.9  | 4991.9  | 4991.9  | 4991.9  | 4991.9  |
| 2.5°  | 4969.8  | 4975.9  | 4969.8  | 4973.9  | 4963.8  | 4967.8  | 4967.8  | 4967.8  | 4965.8  | 4967.8  | 4963.8  |
| 5°    | 4925.7  | 4929.7  | 4921.7  | 4925.7  | 4919.7  | 4925.7  | 4927.7  | 4925.7  | 4921.7  | 4923.7  | 4915.7  |
| 7.5°  | 4859.5  | 4863.5  | 4857.5  | 4863.5  | 4855.5  | 4865.5  | 4863.5  | 4857.5  | 4851.5  | 4851.5  | 4843.4  |
| 10°   | 4823.4  | 4825.4  | 4809.3  | 4803.3  | 4785.3  | 4789.3  | 4795.3  | 4801.3  | 4807.3  | 4819.4  | 4817.4  |
| 12.5° | 4825.4  | 4825.4  | 4801.3  | 4775.2  | 4749.1  | 4755.2  | 4765.2  | 4787.3  | 4811.3  | 4833.4  | 4835.4  |
| 15°   | 4845.4  | 4843.4  | 4807.3  | 4765.2  | 4747.1  | 4765.2  | 4771.2  | 4785.3  | 4823.4  | 4861.5  | 4863.5  |
| 17.5° | 4859.5  | 4859.5  | 4803.3  | 4755.2  | 4753.2  | 4781.2  | 4779.2  | 4785.3  | 4827.4  | 4883.6  | 4885.6  |
| 20°   | 4885.6  | 4885.6  | 4813.3  | 4761.2  | 4761.2  | 4791.3  | 4793.3  | 4803.3  | 4845.4  | 4907.6  | 4917.7  |
| 22.5° | 4943.8  | 4945.8  | 4869.5  | 4827.4  | 4831.4  | 4849.5  | 4855.5  | 4871.5  | 4909.7  | 4977.9  | 4989.9  |
| 25°   | 5026.0  | 5030.0  | 4951.8  | 4927.7  | 4941.8  | 4975.9  | 4971.9  | 4983.9  | 5026.0  | 5092.2  | 5104.3  |
| 27.5° | 5140.4  | 5130.4  | 5058.1  | 5048.1  | 5062.1  | 5086.2  | 5084.2  | 5086.2  | 5120.3  | 5180.5  | 5194.6  |
| 30°   | 5288.9  | 5284.8  | 5232.7  | 5238.7  | 5232.7  | 5224.7  | 5226.7  | 5242.7  | 5260.8  | 5308.9  | 5323.0  |
| 32.5° | 5433.3  | 5437.3  | 5405.2  | 5435.3  | 5479.5  | 5509.6  | 5463.4  | 5419.3  | 5399.2  | 5425.3  | 5437.3  |
| 35°   | 5694.2  | 5704.2  | 5654.0  | 5634.0  | 5694.2  | 5782.4  | 5652.0  | 5579.8  | 5619.9  | 5654.0  | 5664.1  |
| 37.5° | 6137.6  | 6143.6  | 6059.3  | 5979.1  | 5934.9  | 6019.2  | 5888.8  | 5894.8  | 6035.2  | 6099.4  | 6097.4  |
| 40°   | 6643.2  | 6645.2  | 6589.0  | 6518.8  | 6442.5  | 6462.6  | 6410.4  | 6426.5  | 6518.8  | 6577.0  | 6593.0  |
| 42.5° | 7245.1  | 7239.1  | 7150.8  | 7050.5  | 7028.4  | 7048.5  | 6960.2  | 6948.2  | 7054.5  | 7158.8  | 7160.8  |
| 45°   | 8025.6  | 8011.5  | 7897.2  | 7786.8  | 7680.5  | 7636.3  | 7614.3  | 7672.5  | 7818.9  | 7915.2  | 7917.2  |
| 47.5° | 8866.3  | 8828.1  | 8768.0  | 8679.7  | 8587.4  | 8543.2  | 8507.1  | 8535.2  | 8641.6  | 8679.7  | 8683.7  |
| 50°   | 9731.0  | 9739.0  | 9751.1  | 9717.0  | 9682.9  | 9668.8  | 9574.5  | 9520.4  | 9552.5  | 9482.2  | 9472.2  |
| 52.5° | 10756.3 | 10772.3 | 10888.7 | 10987.0 | 11045.2 | 11075.3 | 10896.7 | 10710.1 | 10605.8 | 10469.4 | 10429.2 |
| 55°   | 11966.1 | 11992.2 | 12162.8 | 12435.6 | 12716.5 | 12865.0 | 12542.0 | 12192.9 | 11869.8 | 11615.0 | 11532.8 |
| 57.5° | 13314.4 | 13360.6 | 13595.3 | 14119.0 | 14694.8 | 15046.0 | 14500.2 | 13866.2 | 13242.2 | 12875.0 | 12810.8 |
| 60°   | 14895.5 | 14939.6 | 15264.7 | 16015.1 | 16948.0 | 17475.7 | 16649.1 | 15611.8 | 14835.3 | 14484.2 | 14365.8 |
| 62.5° | 16777.5 | 16781.5 | 17180.8 | 18057.6 | 19289.5 | 20023.8 | 18904.3 | 17517.8 | 16717.3 | 16293.9 | 16179.6 |
| 65°   | 18801.9 | 18812.0 | 19225.3 | 20172.3 | 21446.4 | 22244.9 | 20980.9 | 19536.3 | 18557.2 | 17933.2 | 17844.9 |
| 67.5° | 20232.5 | 20274.6 | 20710.0 | 21849.7 | 23041.5 | 23761.8 | 22453.6 | 20820.4 | 19688.8 | 18944.4 | 18870.2 |
| 70°   | 20003.8 | 20168.3 | 20679.9 | 22010.2 | 23667.5 | 24694.7 | 22692.3 | 20667.9 | 19175.1 | 18296.3 | 18234.1 |
| 72.5° | 17445.6 | 17760.6 | 18442.8 | 20188.4 | 22838.8 | 24253.3 | 21390.2 | 18511.0 | 16821.6 | 16073.2 | 15960.9 |
| 75°   | 11879.9 | 12391.5 | 13420.8 | 15938.8 | 19512.2 | 20998.9 | 18007.4 | 14759.1 | 13170.0 | 12134.7 | 12058.4 |
| 77.5° | 5296.9  | 5413.3  | 6717.4  | 9616.7  | 13464.9 | 15080.1 | 13083.7 | 9654.8  | 7247.1  | 5780.4  | 5471.4  |
| 80°   | 1476.7  | 1494.8  | 1994.4  | 3581.4  | 6739.5  | 8860.2  | 7235.1  | 3762.0  | 2114.7  | 1490.8  | 1404.5  |
| 82.5° | 469.5   | 509.6   | 622.0   | 929.0   | 2265.2  | 4042.9  | 2325.4  | 1003.2  | 714.3   | 569.8   | 513.6   |
| 85°   | 228.7   | 226.7   | 315.0   | 377.2   | 577.8   | 894.9   | 616.0   | 465.5   | 407.3   | 270.9   | 244.8   |
| 87.5° | 96.3    | 98.3    | 146.5   | 132.4   | 168.5   | 144.5   | 198.6   | 208.7   | 218.7   | 120.4   | 104.3   |
| 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)