

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: P459414

Luminaire Tested: **GLAN-SA8D-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60904 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

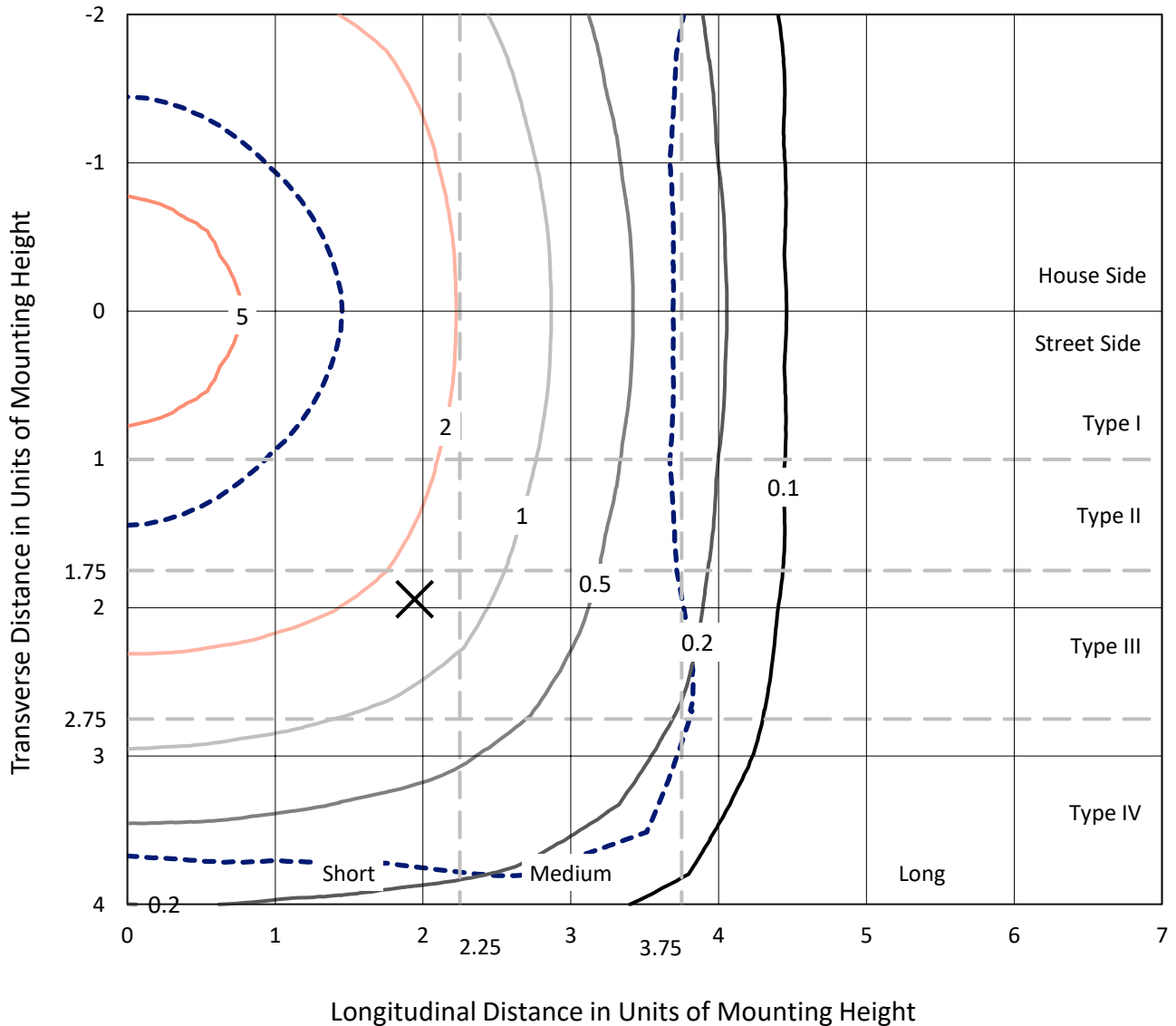
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

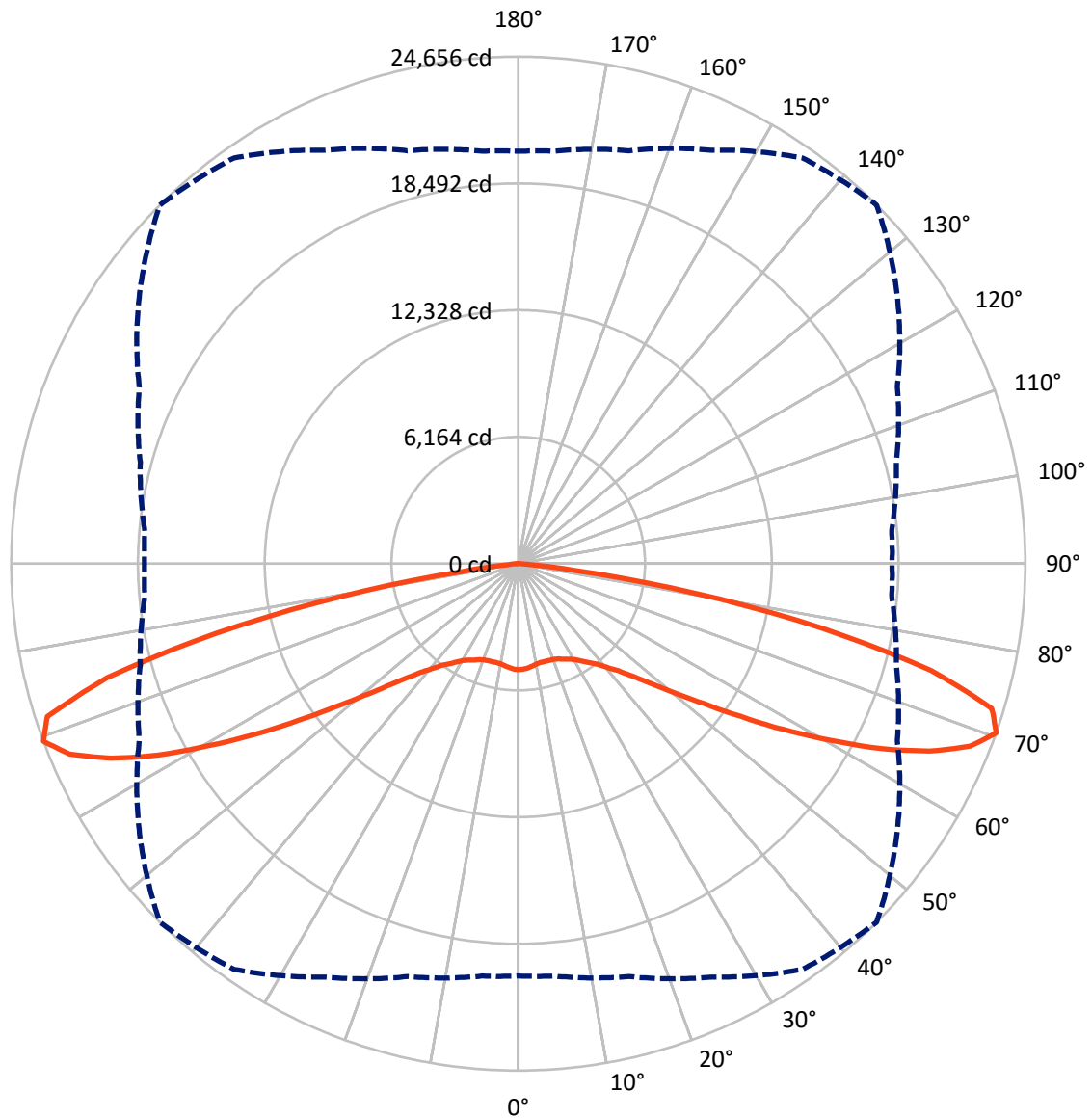
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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    | 30452.0  | 0.0    | 30452.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 30452.0  | 0.0    | 30452.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 60904.0  | 0.0    | 60904.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 482.2   | 0.8       |
| 10°-20°   | 1411.7  | 2.3       |
| 20°-30°   | 2405.2  | 3.9       |
| 30°-40°   | 3728.0  | 6.1       |
| 40°-50°   | 6274.8  | 10.3      |
| 50°-60°   | 11416.7 | 18.7      |
| 60°-70°   | 19328.2 | 31.7      |
| 70°-80°   | 14960.8 | 24.6      |
| 80°-90°   | 896.5   | 1.5       |
| 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°    | 60904.0 | 100.0     |
| 0°-180°   | 60904.0 | 100.0     |



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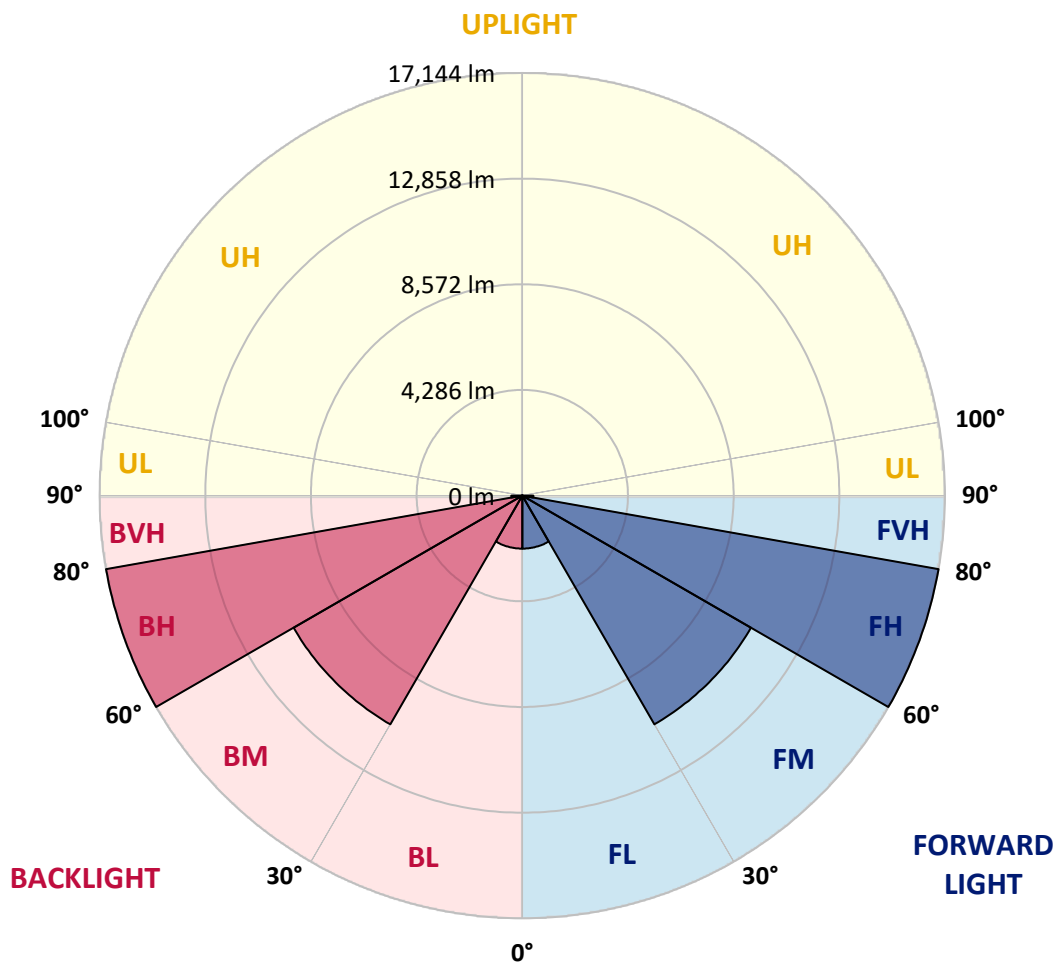
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 2149.5  | 3.5       |                         |      |        |
| FM (30°-60°)   | 10709.8 | 17.6      |                         |      |        |
| FH (60°-80°)   | 17144.5 | 28.1      |                         |      | G5     |
| FVH (80°-90°)  | 448.2   | 0.7       |                         |      | G3/500 |
| BL (0°-30°)    | 2149.5  | 3.5       | B3/2500                 |      |        |
| BM (30°-60°)   | 10709.8 | 17.6      | B5                      |      |        |
| BH (60°-80°)   | 17144.5 | 28.1      | B5                      |      | G5     |
| BVH (80°-90°)  | 448.2   | 0.7       |                         |      | G3/500 |
| 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°    | 5156.3  | 5156.3  | 5156.3  | 5156.3  | 5156.3  | 5156.3  | 5156.3  | 5156.3  | 5156.3  | 5156.3  | 5156.3  |
| 2.5°  | 5143.4  | 5146.6  | 5146.6  | 5140.2  | 5137.0  | 5137.0  | 5133.8  | 5133.8  | 5143.4  | 5146.6  | 5149.8  |
| 5°    | 5098.4  | 5098.4  | 5098.4  | 5095.2  | 5088.7  | 5088.7  | 5082.3  | 5082.3  | 5085.5  | 5095.2  | 5088.7  |
| 7.5°  | 5037.3  | 5043.7  | 5043.7  | 5030.8  | 5021.2  | 5021.2  | 5018.0  | 5021.2  | 5024.4  | 5034.0  | 5030.8  |
| 10°   | 5018.0  | 5021.2  | 5005.1  | 4982.6  | 4966.5  | 4956.8  | 4960.1  | 4966.5  | 4982.6  | 4989.0  | 4992.2  |
| 12.5° | 5030.8  | 5030.8  | 5001.9  | 4969.7  | 4940.8  | 4927.9  | 4924.7  | 4947.2  | 4976.1  | 4995.4  | 5001.9  |
| 15°   | 5046.9  | 5040.5  | 5005.1  | 4963.3  | 4934.3  | 4931.1  | 4927.9  | 4944.0  | 4985.8  | 5024.4  | 5027.6  |
| 17.5° | 5056.6  | 5053.3  | 5008.3  | 4956.8  | 4940.8  | 4940.8  | 4937.5  | 4950.4  | 4995.4  | 5043.7  | 5046.9  |
| 20°   | 5088.7  | 5079.1  | 5027.6  | 4972.9  | 4960.1  | 4966.5  | 4956.8  | 4972.9  | 5021.2  | 5079.1  | 5091.9  |
| 22.5° | 5153.1  | 5143.4  | 5091.9  | 5037.3  | 5030.8  | 5030.8  | 5027.6  | 5043.7  | 5095.2  | 5156.3  | 5165.9  |
| 25°   | 5230.3  | 5220.6  | 5172.4  | 5133.8  | 5140.2  | 5153.1  | 5146.6  | 5149.8  | 5191.7  | 5243.1  | 5259.2  |
| 27.5° | 5333.2  | 5317.1  | 5275.3  | 5243.1  | 5262.4  | 5262.4  | 5262.4  | 5259.2  | 5284.9  | 5333.2  | 5349.3  |
| 30°   | 5458.6  | 5452.2  | 5407.2  | 5404.0  | 5420.0  | 5404.0  | 5404.0  | 5407.2  | 5410.4  | 5455.4  | 5471.5  |
| 32.5° | 5622.7  | 5609.8  | 5587.3  | 5580.9  | 5625.9  | 5638.8  | 5593.7  | 5551.9  | 5574.4  | 5619.5  | 5629.1  |
| 35°   | 5892.9  | 5873.6  | 5841.4  | 5806.0  | 5841.4  | 5902.5  | 5806.0  | 5773.9  | 5831.8  | 5892.9  | 5899.3  |
| 37.5° | 6259.6  | 6249.9  | 6198.5  | 6134.1  | 6130.9  | 6195.2  | 6095.5  | 6092.3  | 6201.7  | 6275.7  | 6285.3  |
| 40°   | 6719.6  | 6729.2  | 6664.9  | 6603.8  | 6571.6  | 6623.1  | 6545.9  | 6574.8  | 6681.0  | 6764.6  | 6758.2  |
| 42.5° | 7366.1  | 7330.7  | 7231.0  | 7173.1  | 7137.7  | 7118.4  | 7099.1  | 7144.2  | 7263.2  | 7353.2  | 7424.0  |
| 45°   | 8122.0  | 8109.1  | 7983.7  | 7912.9  | 7835.7  | 7806.8  | 7800.3  | 7880.8  | 8025.5  | 8134.9  | 8144.5  |
| 47.5° | 8977.6  | 8948.7  | 8868.3  | 8794.3  | 8765.3  | 8730.0  | 8697.8  | 8758.9  | 8903.7  | 8980.9  | 9003.4  |
| 50°   | 9859.0  | 9865.4  | 9865.4  | 9852.6  | 9881.5  | 9887.9  | 9801.1  | 9823.6  | 9904.0  | 9897.6  | 9891.2  |
| 52.5° | 10865.8 | 10901.2 | 11068.4 | 11084.5 | 11222.8 | 11316.1 | 11158.5 | 11065.2 | 11036.3 | 10862.6 | 10875.5 |
| 55°   | 12049.5 | 12081.7 | 12332.6 | 12583.5 | 12956.6 | 13114.2 | 12782.9 | 12493.4 | 12287.6 | 12023.8 | 12036.7 |
| 57.5° | 13526.0 | 13542.0 | 13780.1 | 14262.6 | 14854.4 | 15224.3 | 14642.1 | 14069.6 | 13651.4 | 13400.5 | 13300.8 |
| 60°   | 15115.0 | 15131.1 | 15478.5 | 16067.1 | 16987.1 | 17437.4 | 16716.9 | 15780.8 | 15253.3 | 14870.5 | 14896.2 |
| 62.5° | 17022.4 | 17086.8 | 17398.8 | 18209.4 | 19325.6 | 19830.6 | 18875.2 | 17624.0 | 16909.9 | 16433.8 | 16453.1 |
| 65°   | 19065.0 | 19174.4 | 19515.3 | 20406.3 | 21435.7 | 21979.3 | 20808.4 | 19364.2 | 18476.4 | 17894.2 | 17955.3 |
| 67.5° | 20390.3 | 20486.8 | 20978.9 | 21963.2 | 23246.6 | 23697.0 | 22185.1 | 20502.8 | 19393.1 | 18698.3 | 18569.6 |
| 70°   | 20052.5 | 20132.9 | 20789.1 | 22185.1 | 24086.2 | 24655.5 | 22513.2 | 20335.6 | 19029.6 | 18228.7 | 18177.2 |
| 72.5° | 17701.2 | 17533.9 | 18492.4 | 20496.4 | 23127.6 | 24083.0 | 21480.7 | 18572.9 | 16929.2 | 16105.7 | 16009.2 |
| 75°   | 11731.1 | 12094.6 | 13509.9 | 15870.9 | 19566.8 | 20750.5 | 18334.8 | 14912.3 | 12844.0 | 12158.9 | 12052.7 |
| 77.5° | 3921.1  | 4200.9  | 5458.6  | 8996.9  | 13339.4 | 15118.2 | 13358.7 | 9752.8  | 6899.7  | 5558.3  | 5584.1  |
| 80°   | 1039.0  | 1026.1  | 1328.5  | 2473.6  | 5764.2  | 8755.7  | 6709.9  | 3303.5  | 1807.8  | 1309.2  | 1241.6  |
| 82.5° | 373.1   | 418.2   | 537.2   | 685.1   | 1527.9  | 2721.3  | 1920.3  | 926.4   | 678.7   | 501.8   | 485.7   |
| 85°   | 164.0   | 160.8   | 231.6   | 273.4   | 382.8   | 508.2   | 450.3   | 392.4   | 344.2   | 228.4   | 212.3   |
| 87.5° | 35.4    | 35.4    | 54.7    | 41.8    | 67.5    | 67.5    | 83.6    | 99.7    | 102.9   | 67.5    | 54.7    |
| 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)