

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: McGRAW-EDISON

Report Number: P456311

Luminaire Tested: **GALN-SA7C-750-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456311  
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: MCGRAW-EDISON  
Catalog Number: GALN-SA7C-750-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 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: 51250 lumens  
Efficiency: N/A  
Efficacy: 135.9 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

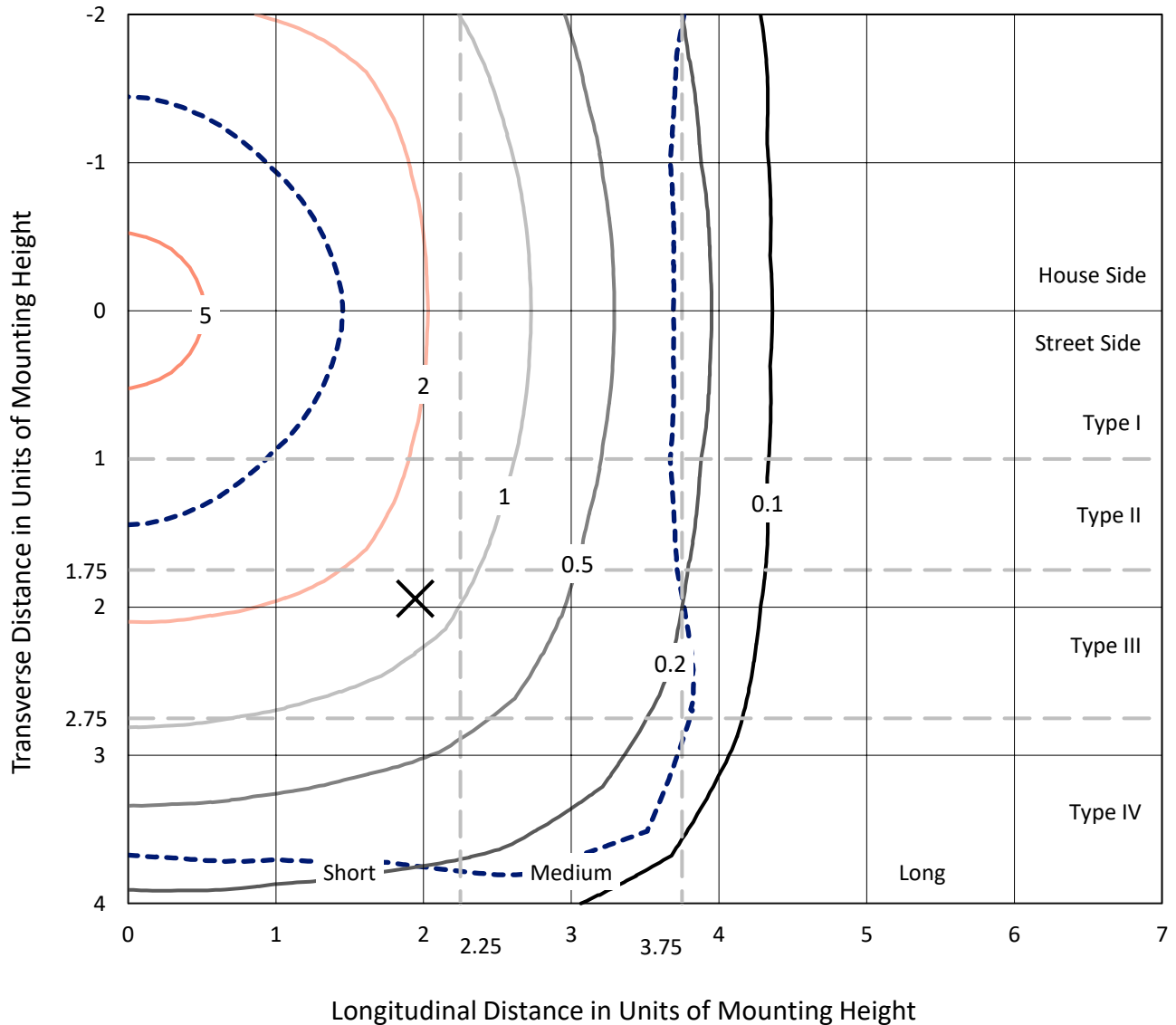
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

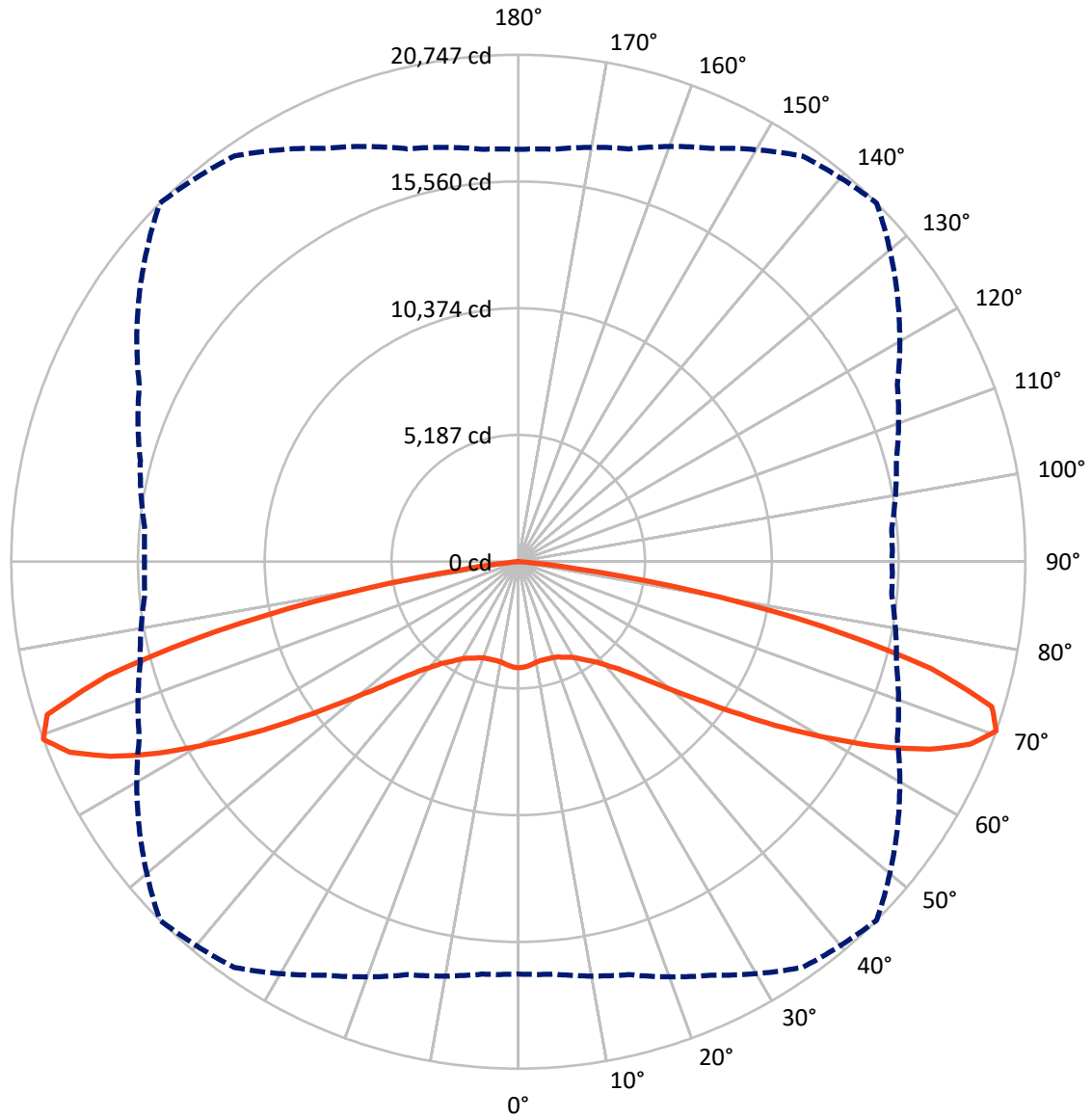
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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    | 25625.0  | 0.0    | 25625.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 25625.0  | 0.0    | 25625.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 51250.0  | 0.0    | 51250.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 405.8   | 0.8       |
| 10°-20°   | 1187.9  | 2.3       |
| 20°-30°   | 2023.9  | 3.9       |
| 30°-40°   | 3137.1  | 6.1       |
| 40°-50°   | 5280.2  | 10.3      |
| 50°-60°   | 9607.0  | 18.7      |
| 60°-70°   | 16264.4 | 31.7      |
| 70°-80°   | 12589.3 | 24.6      |
| 80°-90°   | 754.4   | 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°    | 51250.0 | 100.0     |
| 0°-180°   | 51250.0 | 100.0     |



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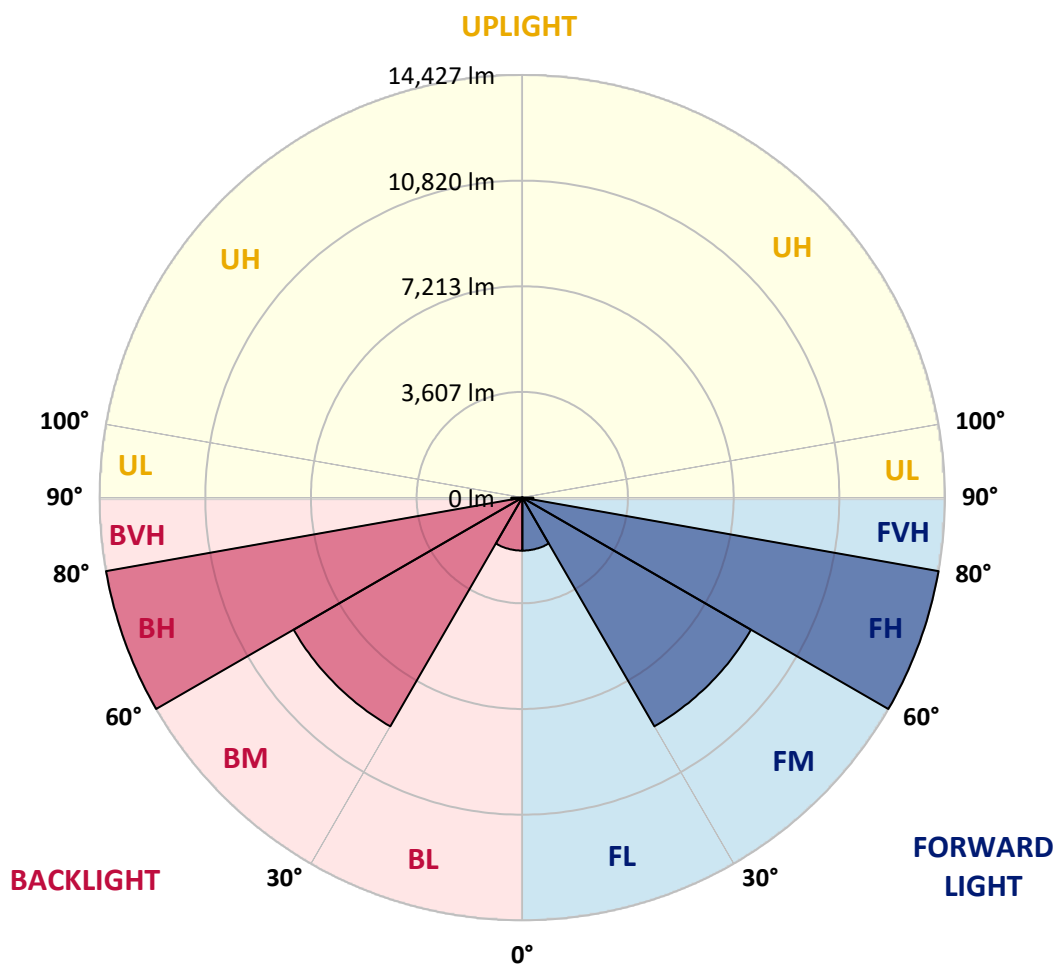
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 1808.8  | 3.5       |                         |      |        |
| FM (30°-60°)   | 9012.1  | 17.6      |                         |      |        |
| FH (60°-80°)   | 14426.9 | 28.1      |                         |      | G5     |
| FVH (80°-90°)  | 377.2   | 0.7       |                         |      | G3/500 |
| BL (0°-30°)    | 1808.8  | 3.5       | B3/2500                 |      |        |
| BM (30°-60°)   | 9012.1  | 17.6      | B5                      |      |        |
| BH (60°-80°)   | 14426.9 | 28.1      | B5                      |      | G5     |
| BVH (80°-90°)  | 377.2   | 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°    | 4338.9  | 4338.9  | 4338.9  | 4338.9  | 4338.9  | 4338.9  | 4338.9  | 4338.9  | 4338.9  | 4338.9  | 4338.9  |
| 2.5°  | 4328.1  | 4330.8  | 4330.8  | 4325.4  | 4322.7  | 4322.7  | 4320.0  | 4320.0  | 4328.1  | 4330.8  | 4333.5  |
| 5°    | 4290.2  | 4290.2  | 4290.2  | 4287.5  | 4282.1  | 4282.1  | 4276.7  | 4276.7  | 4279.4  | 4287.5  | 4282.1  |
| 7.5°  | 4238.8  | 4244.2  | 4244.2  | 4233.4  | 4225.3  | 4225.3  | 4222.5  | 4225.3  | 4228.0  | 4236.1  | 4233.4  |
| 10°   | 4222.5  | 4225.3  | 4211.7  | 4192.8  | 4179.2  | 4171.1  | 4173.8  | 4179.2  | 4192.8  | 4198.2  | 4200.9  |
| 12.5° | 4233.4  | 4233.4  | 4209.0  | 4181.9  | 4157.6  | 4146.8  | 4144.1  | 4163.0  | 4187.4  | 4203.6  | 4209.0  |
| 15°   | 4246.9  | 4241.5  | 4211.7  | 4176.5  | 4152.2  | 4149.5  | 4146.8  | 4160.3  | 4195.5  | 4228.0  | 4230.7  |
| 17.5° | 4255.0  | 4252.3  | 4214.4  | 4171.1  | 4157.6  | 4157.6  | 4154.9  | 4165.7  | 4203.6  | 4244.2  | 4246.9  |
| 20°   | 4282.1  | 4274.0  | 4230.7  | 4184.7  | 4173.8  | 4179.2  | 4171.1  | 4184.7  | 4225.3  | 4274.0  | 4284.8  |
| 22.5° | 4336.2  | 4328.1  | 4284.8  | 4238.8  | 4233.4  | 4233.4  | 4230.7  | 4244.2  | 4287.5  | 4338.9  | 4347.1  |
| 25°   | 4401.2  | 4393.1  | 4352.5  | 4320.0  | 4325.4  | 4336.2  | 4330.8  | 4333.5  | 4368.7  | 4412.0  | 4425.6  |
| 27.5° | 4487.8  | 4474.3  | 4439.1  | 4412.0  | 4428.3  | 4428.3  | 4428.3  | 4425.6  | 4447.2  | 4487.8  | 4501.3  |
| 30°   | 4593.4  | 4588.0  | 4550.1  | 4547.4  | 4560.9  | 4547.4  | 4547.4  | 4550.1  | 4552.8  | 4590.7  | 4604.2  |
| 32.5° | 4731.4  | 4720.6  | 4701.6  | 4696.2  | 4734.1  | 4745.0  | 4707.1  | 4671.9  | 4690.8  | 4728.7  | 4736.8  |
| 35°   | 4958.8  | 4942.5  | 4915.5  | 4885.7  | 4915.5  | 4966.9  | 4885.7  | 4858.6  | 4907.4  | 4958.8  | 4964.2  |
| 37.5° | 5267.4  | 5259.2  | 5215.9  | 5161.8  | 5159.1  | 5213.2  | 5129.3  | 5126.6  | 5218.6  | 5280.9  | 5289.0  |
| 40°   | 5654.4  | 5662.5  | 5608.4  | 5557.0  | 5529.9  | 5573.2  | 5508.3  | 5532.6  | 5621.9  | 5692.3  | 5686.9  |
| 42.5° | 6198.5  | 6168.7  | 6084.8  | 6036.1  | 6006.3  | 5990.1  | 5973.8  | 6011.7  | 6111.9  | 6187.7  | 6247.2  |
| 45°   | 6834.6  | 6823.7  | 6718.2  | 6658.6  | 6593.7  | 6569.3  | 6563.9  | 6631.6  | 6753.4  | 6845.4  | 6853.5  |
| 47.5° | 7554.6  | 7530.2  | 7462.5  | 7400.3  | 7375.9  | 7346.2  | 7319.1  | 7370.5  | 7492.3  | 7557.3  | 7576.2  |
| 50°   | 8296.2  | 8301.6  | 8301.6  | 8290.8  | 8315.2  | 8320.6  | 8247.5  | 8266.5  | 8334.1  | 8328.7  | 8323.3  |
| 52.5° | 9143.4  | 9173.2  | 9314.0  | 9327.5  | 9443.9  | 9522.4  | 9389.8  | 9311.3  | 9286.9  | 9140.7  | 9151.6  |
| 55°   | 10139.5 | 10166.6 | 10377.7 | 10588.9 | 10902.8 | 11035.5 | 10756.7 | 10513.1 | 10339.8 | 10117.9 | 10128.7 |
| 57.5° | 11381.9 | 11395.5 | 11595.8 | 12001.8 | 12499.8 | 12811.1 | 12321.2 | 11839.4 | 11487.5 | 11276.4 | 11192.5 |
| 60°   | 12719.1 | 12732.6 | 13024.9 | 13520.3 | 14294.4 | 14673.4 | 14067.0 | 13279.4 | 12835.5 | 12513.4 | 12535.0 |
| 62.5° | 14324.2 | 14378.3 | 14640.9 | 15323.0 | 16262.2 | 16687.2 | 15883.3 | 14830.4 | 14229.4 | 13828.8 | 13845.1 |
| 65°   | 16043.0 | 16135.0 | 16421.9 | 17171.7 | 18037.9 | 18495.3 | 17510.0 | 16294.7 | 15547.6 | 15057.7 | 15109.1 |
| 67.5° | 17158.2 | 17239.4 | 17653.5 | 18481.8 | 19561.8 | 19940.7 | 18668.5 | 17252.9 | 16319.1 | 15734.4 | 15626.1 |
| 70°   | 16874.0 | 16941.6 | 17493.8 | 18668.5 | 20268.2 | 20747.3 | 18944.6 | 17112.2 | 16013.2 | 15339.2 | 15295.9 |
| 72.5° | 14895.3 | 14754.6 | 15561.2 | 17247.5 | 19461.6 | 20265.5 | 18075.8 | 15628.8 | 14245.7 | 13552.8 | 13471.6 |
| 75°   | 9871.6  | 10177.4 | 11368.4 | 13355.2 | 16465.2 | 17461.3 | 15428.5 | 12548.6 | 10808.1 | 10231.6 | 10142.2 |
| 77.5° | 3299.5  | 3535.0  | 4593.4  | 7570.8  | 11224.9 | 12721.8 | 11241.2 | 8206.9  | 5806.0  | 4677.3  | 4698.9  |
| 80°   | 874.3   | 863.5   | 1117.9  | 2081.5  | 4850.5  | 7367.8  | 5646.3  | 2779.8  | 1521.2  | 1101.7  | 1044.8  |
| 82.5° | 314.0   | 351.9   | 452.0   | 576.5   | 1285.7  | 2289.9  | 1615.9  | 779.5   | 571.1   | 422.3   | 408.7   |
| 85°   | 138.0   | 135.3   | 194.9   | 230.1   | 322.1   | 427.7   | 378.9   | 330.2   | 289.6   | 192.2   | 178.6   |
| 87.5° | 29.8    | 29.8    | 46.0    | 35.2    | 56.8    | 56.8    | 70.4    | 83.9    | 86.6    | 56.8    | 46.0    |
| 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)