

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: P455847

Luminaire Tested: **GALN-SA7A-750-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455847  
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-SA7A-750-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33337 lumens  
Efficiency: N/A  
Efficacy: 155.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

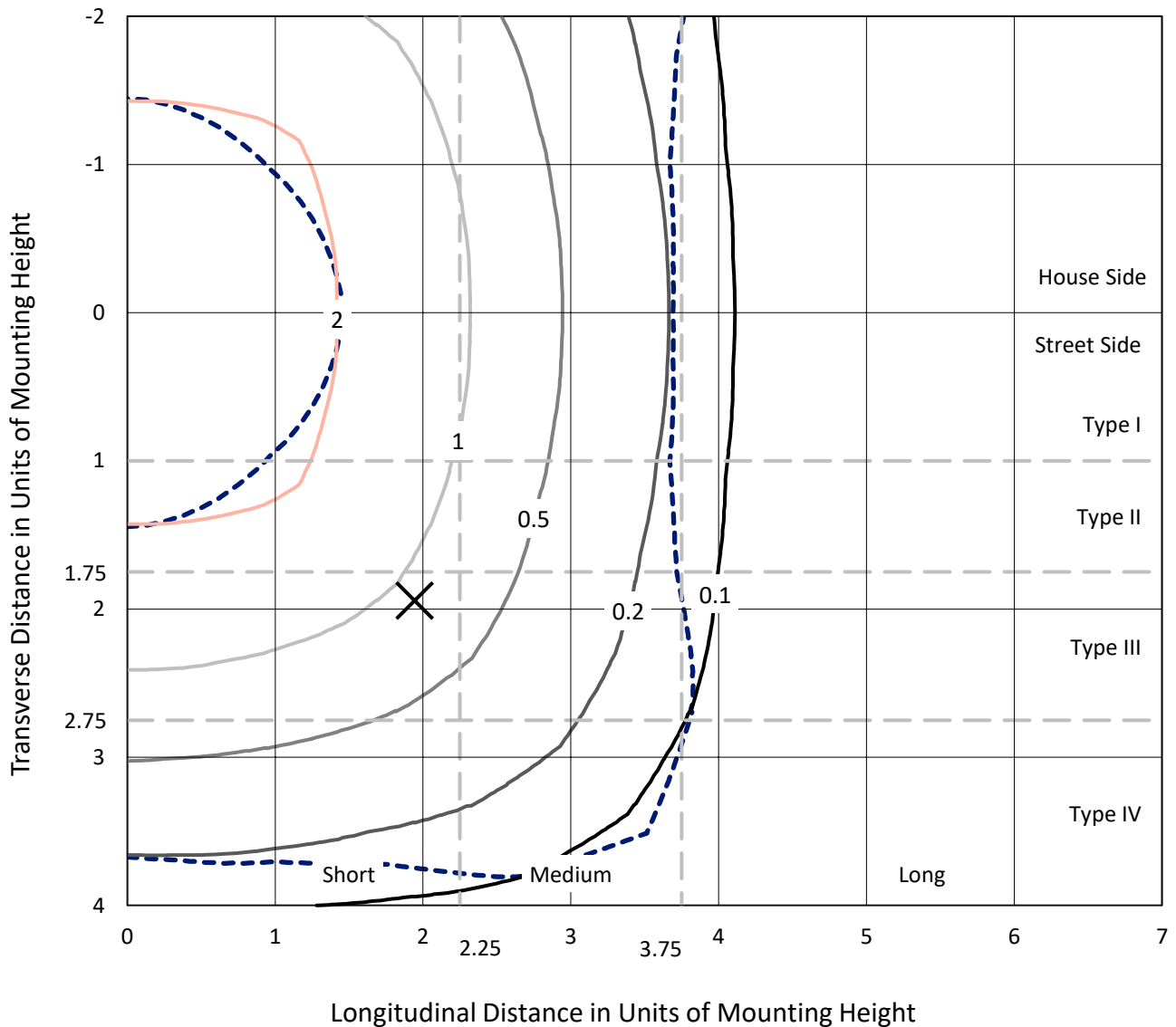
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

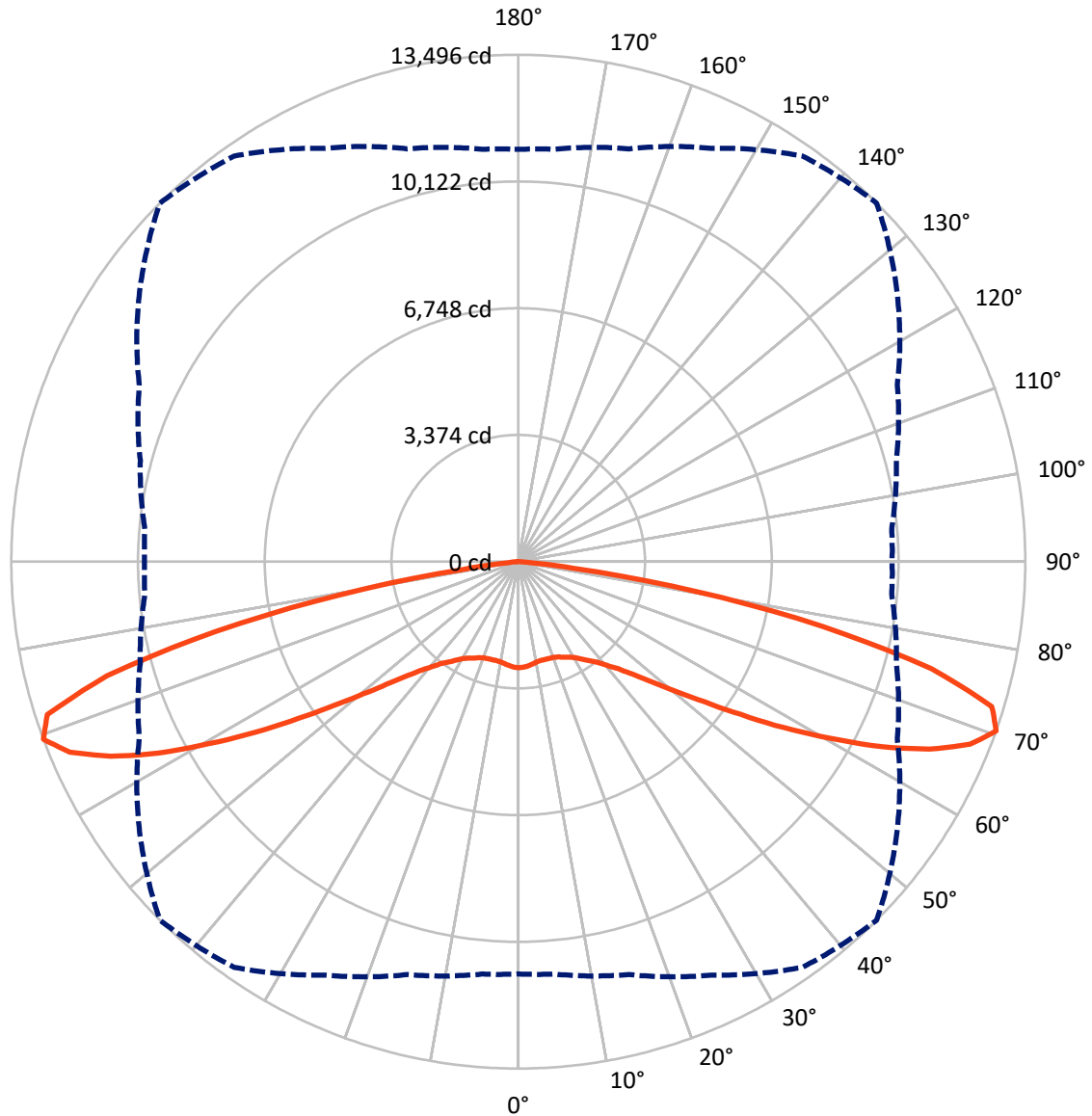
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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    | 16668.5  | 0.0    | 16668.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16668.5  | 0.0    | 16668.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 33337.0  | 0.0    | 33337.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 263.9   | 0.8       |
| 10°-20°   | 772.7   | 2.3       |
| 20°-30°   | 1316.5  | 3.9       |
| 30°-40°   | 2040.6  | 6.1       |
| 40°-50°   | 3434.6  | 10.3      |
| 50°-60°   | 6249.1  | 18.7      |
| 60°-70°   | 10579.7 | 31.7      |
| 70°-80°   | 8189.1  | 24.6      |
| 80°-90°   | 490.7   | 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°    | 33337.0 | 100.0     |
| 0°-180°   | 33337.0 | 100.0     |

**Coefficient of Utilization**



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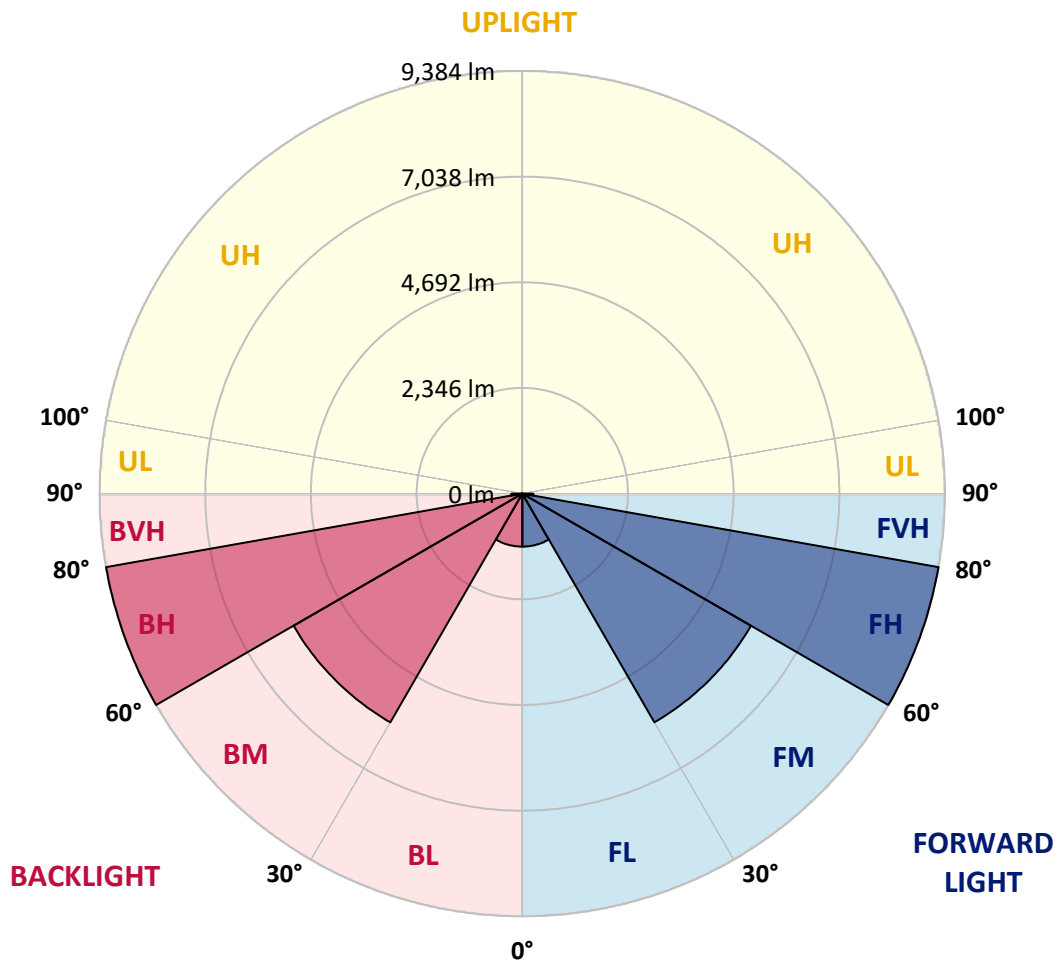
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1176.6 | 3.5       |                         |      |          |
| FM (30°-60°)   | 5862.2 | 17.6      |                         |      |          |
| FH (60°-80°)   | 9384.4 | 28.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 245.4  | 0.7       |                         |      | G3/500   |
| BL (0°-30°)    | 1176.6 | 3.5       | B3/2500                 |      |          |
| BM (30°-60°)   | 5862.2 | 17.6      | B4/8500                 |      |          |
| BH (60°-80°)   | 9384.4 | 28.1      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 245.4  | 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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2822.4  | 2822.4  | 2822.4  | 2822.4  | 2822.4  | 2822.4  | 2822.4  | 2822.4  | 2822.4  | 2822.4  | 2822.4  |
| 2.5°  | 2815.3  | 2817.1  | 2817.1  | 2813.6  | 2811.8  | 2811.8  | 2810.1  | 2810.1  | 2815.3  | 2817.1  | 2818.9  |
| 5°    | 2790.7  | 2790.7  | 2790.7  | 2788.9  | 2785.4  | 2785.4  | 2781.9  | 2781.9  | 2783.7  | 2788.9  | 2785.4  |
| 7.5°  | 2757.2  | 2760.8  | 2760.8  | 2753.7  | 2748.4  | 2748.4  | 2746.7  | 2748.4  | 2750.2  | 2755.5  | 2753.7  |
| 10°   | 2746.7  | 2748.4  | 2739.6  | 2727.3  | 2718.5  | 2713.2  | 2715.0  | 2718.5  | 2727.3  | 2730.8  | 2732.6  |
| 12.5° | 2753.7  | 2753.7  | 2737.9  | 2720.3  | 2704.4  | 2697.4  | 2695.6  | 2707.9  | 2723.8  | 2734.4  | 2737.9  |
| 15°   | 2762.5  | 2759.0  | 2739.6  | 2716.7  | 2700.9  | 2699.1  | 2697.4  | 2706.2  | 2729.1  | 2750.2  | 2752.0  |
| 17.5° | 2767.8  | 2766.0  | 2741.4  | 2713.2  | 2704.4  | 2704.4  | 2702.7  | 2709.7  | 2734.4  | 2760.8  | 2762.5  |
| 20°   | 2785.4  | 2780.1  | 2752.0  | 2722.0  | 2715.0  | 2718.5  | 2713.2  | 2722.0  | 2748.4  | 2780.1  | 2787.2  |
| 22.5° | 2820.6  | 2815.3  | 2787.2  | 2757.2  | 2753.7  | 2753.7  | 2752.0  | 2760.8  | 2788.9  | 2822.4  | 2827.7  |
| 25°   | 2862.9  | 2857.6  | 2831.2  | 2810.1  | 2813.6  | 2820.6  | 2817.1  | 2818.9  | 2841.8  | 2869.9  | 2878.7  |
| 27.5° | 2919.2  | 2910.4  | 2887.5  | 2869.9  | 2880.5  | 2880.5  | 2880.5  | 2878.7  | 2892.8  | 2919.2  | 2928.0  |
| 30°   | 2987.9  | 2984.4  | 2959.7  | 2958.0  | 2966.8  | 2958.0  | 2958.0  | 2959.7  | 2961.5  | 2986.1  | 2994.9  |
| 32.5° | 3077.7  | 3070.6  | 3058.3  | 3054.8  | 3079.4  | 3086.5  | 3061.8  | 3039.0  | 3051.3  | 3075.9  | 3081.2  |
| 35°   | 3225.6  | 3215.0  | 3197.4  | 3178.0  | 3197.4  | 3230.9  | 3178.0  | 3160.4  | 3192.1  | 3225.6  | 3229.1  |
| 37.5° | 3426.3  | 3421.0  | 3392.8  | 3357.6  | 3355.9  | 3391.1  | 3336.5  | 3334.7  | 3394.6  | 3435.1  | 3440.4  |
| 40°   | 3678.1  | 3683.4  | 3648.1  | 3614.7  | 3597.1  | 3625.3  | 3583.0  | 3598.8  | 3657.0  | 3702.7  | 3699.2  |
| 42.5° | 4032.0  | 4012.6  | 3958.0  | 3926.3  | 3907.0  | 3896.4  | 3885.8  | 3910.5  | 3975.6  | 4024.9  | 4063.7  |
| 45°   | 4445.7  | 4438.7  | 4370.0  | 4331.3  | 4289.0  | 4273.2  | 4269.7  | 4313.7  | 4392.9  | 4452.8  | 4458.1  |
| 47.5° | 4914.1  | 4898.2  | 4854.2  | 4813.7  | 4797.9  | 4778.5  | 4760.9  | 4794.4  | 4873.6  | 4915.8  | 4928.2  |
| 50°   | 5396.5  | 5400.0  | 5400.0  | 5393.0  | 5408.8  | 5412.4  | 5364.8  | 5377.1  | 5421.2  | 5417.6  | 5414.1  |
| 52.5° | 5947.6  | 5967.0  | 6058.5  | 6067.3  | 6143.0  | 6194.1  | 6107.8  | 6056.8  | 6040.9  | 5945.8  | 5952.9  |
| 55°   | 6595.5  | 6613.1  | 6750.5  | 6887.8  | 7092.1  | 7178.3  | 6997.0  | 6838.5  | 6725.8  | 6581.5  | 6588.5  |
| 57.5° | 7403.7  | 7412.5  | 7542.8  | 7806.9  | 8130.9  | 8333.3  | 8014.7  | 7701.3  | 7472.4  | 7335.0  | 7280.5  |
| 60°   | 8273.5  | 8282.3  | 8472.4  | 8794.6  | 9298.2  | 9544.7  | 9150.3  | 8637.9  | 8349.2  | 8139.7  | 8153.8  |
| 62.5° | 9317.6  | 9352.8  | 9523.6  | 9967.3  | 10578.2 | 10854.7 | 10331.7 | 9646.8  | 9255.9  | 8995.4  | 9005.9  |
| 65°   | 10435.6 | 10495.5 | 10682.1 | 11169.8 | 11733.2 | 12030.8 | 11389.9 | 10599.4 | 10113.4 | 9794.7  | 9828.2  |
| 67.5° | 11161.0 | 11213.8 | 11483.2 | 12022.0 | 12724.5 | 12971.0 | 12143.5 | 11222.6 | 10615.2 | 10234.9 | 10164.5 |
| 70°   | 10976.1 | 11020.2 | 11379.3 | 12143.5 | 13184.0 | 13495.7 | 12323.1 | 11131.1 | 10416.2 | 9977.8  | 9949.7  |
| 72.5° | 9689.1  | 9597.5  | 10122.2 | 11219.1 | 12659.4 | 13182.3 | 11757.9 | 10166.2 | 9266.5  | 8815.8  | 8763.0  |
| 75°   | 6421.2  | 6620.2  | 7394.9  | 8687.2  | 10710.3 | 11358.2 | 10035.9 | 8162.6  | 7030.4  | 6655.4  | 6597.3  |
| 77.5° | 2146.3  | 2299.5  | 2987.9  | 4924.6  | 7301.6  | 8275.2  | 7312.1  | 5338.4  | 3776.7  | 3042.5  | 3056.6  |
| 80°   | 568.7   | 561.7   | 727.2   | 1354.0  | 3155.2  | 4792.6  | 3672.8  | 1808.2  | 989.5   | 716.6   | 679.6   |
| 82.5° | 204.2   | 228.9   | 294.0   | 375.0   | 836.3   | 1489.5  | 1051.1  | 507.1   | 371.5   | 274.7   | 265.9   |
| 85°   | 89.8    | 88.0    | 126.8   | 149.7   | 209.5   | 278.2   | 246.5   | 214.8   | 188.4   | 125.0   | 116.2   |
| 87.5° | 19.4    | 19.4    | 29.9    | 22.9    | 37.0    | 37.0    | 45.8    | 54.6    | 56.3    | 37.0    | 29.9    |
| 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)