

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: P453556

Luminaire Tested: **GALN-SA4C-760-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453556  
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-SA4C-760-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 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: 29108 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

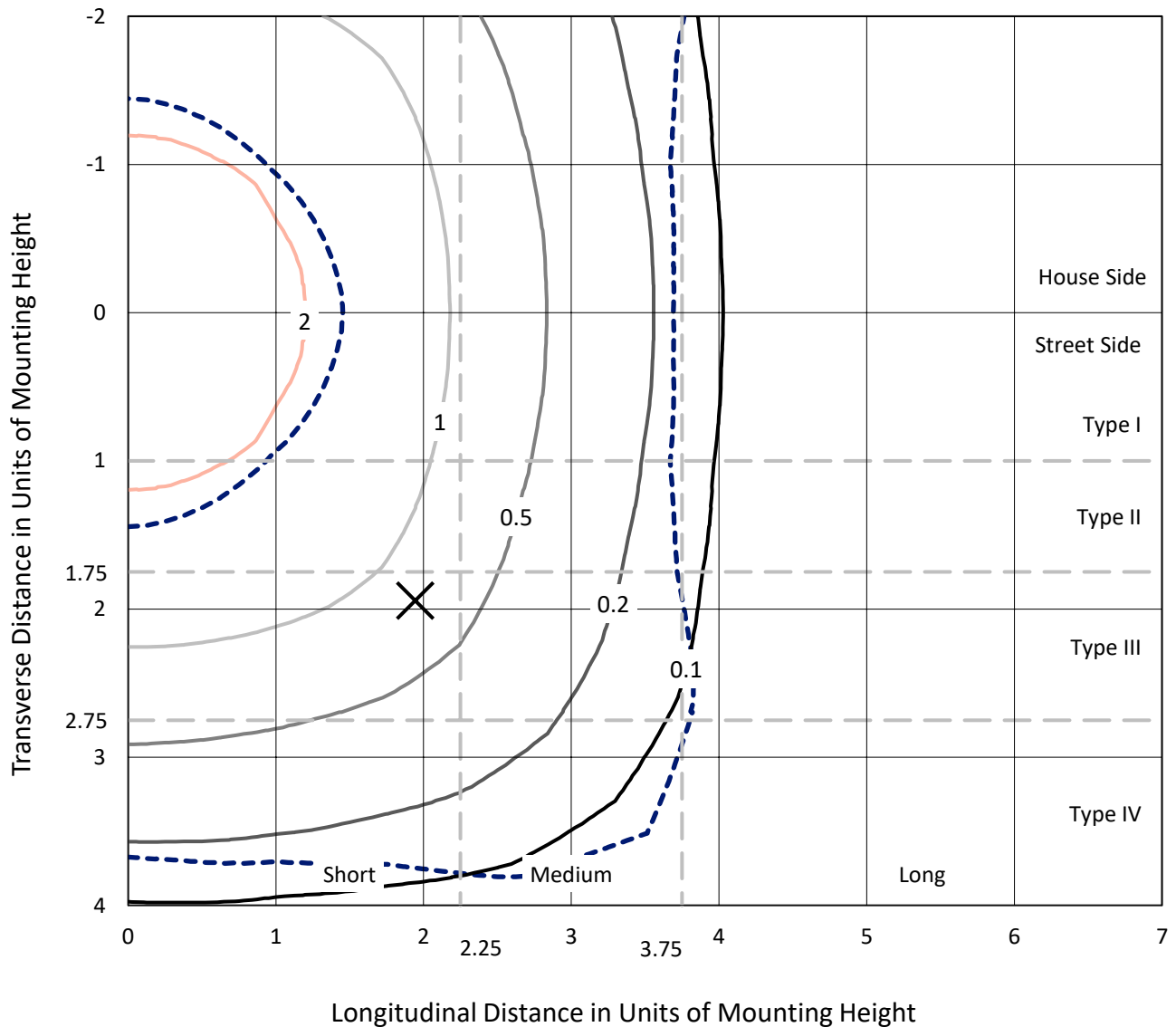
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

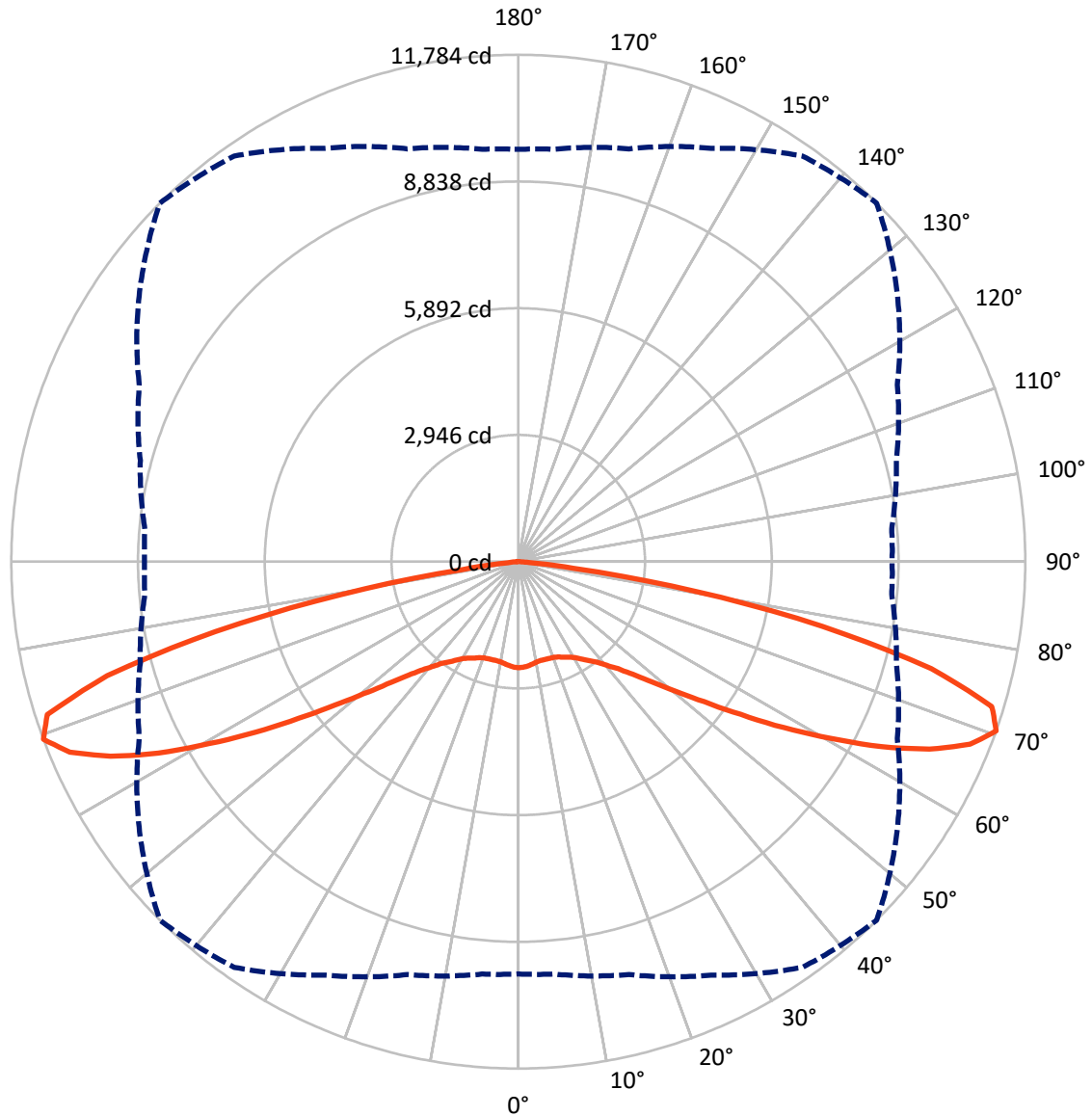
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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    | 14554.0  | 0.0    | 14554.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14554.0  | 0.0    | 14554.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29108.0  | 0.0    | 29108.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 230.5   | 0.8       |
| 10°-20°   | 674.7   | 2.3       |
| 20°-30°   | 1149.5  | 3.9       |
| 30°-40°   | 1781.7  | 6.1       |
| 40°-50°   | 2998.9  | 10.3      |
| 50°-60°   | 5456.4  | 18.7      |
| 60°-70°   | 9237.6  | 31.7      |
| 70°-80°   | 7150.2  | 24.6      |
| 80°-90°   | 428.5   | 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°    | 29108.0 | 100.0     |
| 0°-180°   | 29108.0 | 100.0     |

**Coefficient of Utilization**



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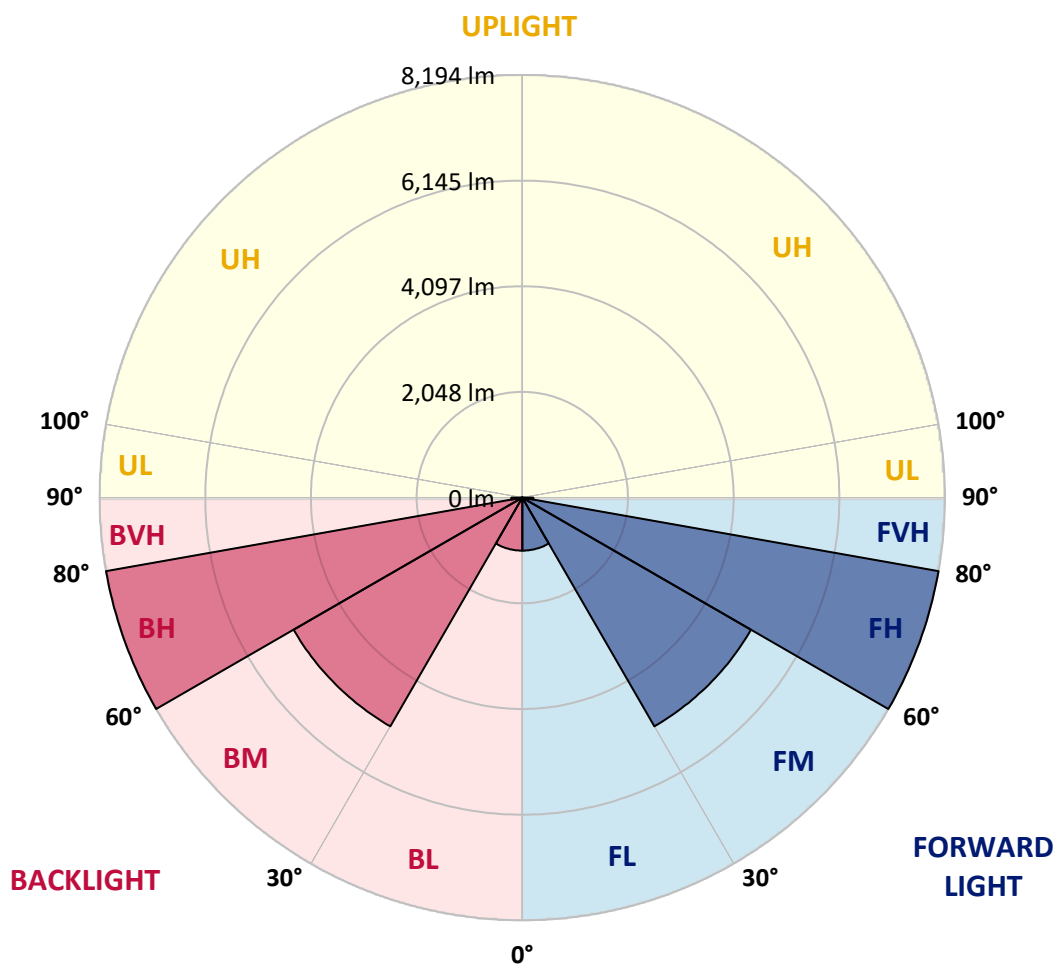
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1027.3 | 3.5       |                         |      |          |
| FM (30°-60°)   | 5118.5 | 17.6      |                         |      |          |
| FH (60°-80°)   | 8193.9 | 28.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 214.2  | 0.7       |                         |      | G2/225   |
| BL (0°-30°)    | 1027.3 | 3.5       | B3/2500                 |      |          |
| BM (30°-60°)   | 5118.5 | 17.6      | B4/8500                 |      |          |
| BH (60°-80°)   | 8193.9 | 28.1      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 214.2  | 0.7       |                         |      | G2/225   |
| 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°    | 2464.3 | 2464.3 | 2464.3  | 2464.3  | 2464.3  | 2464.3  | 2464.3  | 2464.3 | 2464.3 | 2464.3 | 2464.3 |
| 2.5°  | 2458.2 | 2459.7 | 2459.7  | 2456.7  | 2455.1  | 2455.1  | 2453.6  | 2453.6 | 2458.2 | 2459.7 | 2461.3 |
| 5°    | 2436.7 | 2436.7 | 2436.7  | 2435.1  | 2432.1  | 2432.1  | 2429.0  | 2429.0 | 2430.5 | 2435.1 | 2432.1 |
| 7.5°  | 2407.5 | 2410.5 | 2410.5  | 2404.4  | 2399.8  | 2399.8  | 2398.2  | 2399.8 | 2401.3 | 2405.9 | 2404.4 |
| 10°   | 2398.2 | 2399.8 | 2392.1  | 2381.3  | 2373.6  | 2369.0  | 2370.6  | 2373.6 | 2381.3 | 2384.4 | 2385.9 |
| 12.5° | 2404.4 | 2404.4 | 2390.6  | 2375.2  | 2361.3  | 2355.2  | 2353.7  | 2364.4 | 2378.3 | 2387.5 | 2390.6 |
| 15°   | 2412.1 | 2409.0 | 2392.1  | 2372.1  | 2358.3  | 2356.7  | 2355.2  | 2362.9 | 2382.9 | 2401.3 | 2402.9 |
| 17.5° | 2416.7 | 2415.2 | 2393.6  | 2369.0  | 2361.3  | 2361.3  | 2359.8  | 2366.0 | 2387.5 | 2410.5 | 2412.1 |
| 20°   | 2432.1 | 2427.5 | 2402.9  | 2376.7  | 2370.6  | 2373.6  | 2369.0  | 2376.7 | 2399.8 | 2427.5 | 2433.6 |
| 22.5° | 2462.8 | 2458.2 | 2433.6  | 2407.5  | 2404.4  | 2404.4  | 2402.9  | 2410.5 | 2435.1 | 2464.3 | 2469.0 |
| 25°   | 2499.7 | 2495.1 | 2472.0  | 2453.6  | 2456.7  | 2462.8  | 2459.7  | 2461.3 | 2481.3 | 2505.9 | 2513.5 |
| 27.5° | 2548.9 | 2541.2 | 2521.2  | 2505.9  | 2515.1  | 2515.1  | 2515.1  | 2513.5 | 2525.8 | 2548.9 | 2556.6 |
| 30°   | 2608.9 | 2605.8 | 2584.3  | 2582.7  | 2590.4  | 2582.7  | 2582.7  | 2584.3 | 2585.8 | 2607.3 | 2615.0 |
| 32.5° | 2687.3 | 2681.1 | 2670.4  | 2667.3  | 2688.8  | 2694.9  | 2673.4  | 2653.4 | 2664.2 | 2685.7 | 2690.3 |
| 35°   | 2816.4 | 2807.2 | 2791.8  | 2774.9  | 2791.8  | 2821.0  | 2774.9  | 2759.5 | 2787.2 | 2816.4 | 2819.5 |
| 37.5° | 2991.7 | 2987.0 | 2962.4  | 2931.7  | 2930.2  | 2960.9  | 2913.3  | 2911.7 | 2964.0 | 2999.3 | 3004.0 |
| 40°   | 3211.5 | 3216.1 | 3185.4  | 3156.1  | 3140.8  | 3165.4  | 3128.5  | 3142.3 | 3193.0 | 3233.0 | 3229.9 |
| 42.5° | 3520.5 | 3503.6 | 3455.9  | 3428.3  | 3411.3  | 3402.1  | 3392.9  | 3414.4 | 3471.3 | 3514.3 | 3548.2 |
| 45°   | 3881.8 | 3875.6 | 3815.7  | 3781.8  | 3744.9  | 3731.1  | 3728.0  | 3766.5 | 3835.7 | 3887.9 | 3892.5 |
| 47.5° | 4290.7 | 4276.9 | 4238.4  | 4203.1  | 4189.2  | 4172.3  | 4157.0  | 4186.2 | 4255.3 | 4292.2 | 4303.0 |
| 50°   | 4711.9 | 4715.0 | 4715.0  | 4708.9  | 4722.7  | 4725.8  | 4684.3  | 4695.0 | 4733.5 | 4730.4 | 4727.3 |
| 52.5° | 5193.1 | 5210.0 | 5290.0  | 5297.7  | 5363.8  | 5408.3  | 5333.0  | 5288.4 | 5274.6 | 5191.6 | 5197.7 |
| 55°   | 5758.9 | 5774.2 | 5894.1  | 6014.1  | 6192.4  | 6267.7  | 6109.4  | 5971.0 | 5872.6 | 5746.6 | 5752.7 |
| 57.5° | 6464.5 | 6472.2 | 6585.9  | 6816.5  | 7099.4  | 7276.2  | 6998.0  | 6724.3 | 6524.5 | 6404.5 | 6356.9 |
| 60°   | 7223.9 | 7231.6 | 7397.7  | 7679.0  | 8118.7  | 8333.9  | 7989.5  | 7542.2 | 7290.0 | 7107.1 | 7119.4 |
| 62.5° | 8135.6 | 8166.3 | 8315.4  | 8702.9  | 9236.3  | 9477.7  | 9021.1  | 8423.1 | 8081.8 | 7854.2 | 7863.5 |
| 65°   | 9111.8 | 9164.1 | 9327.0  | 9752.9  | 10244.8 | 10504.6 | 9945.0  | 9254.8 | 8830.5 | 8552.2 | 8581.4 |
| 67.5° | 9745.2 | 9791.3 | 10026.5 | 10496.9 | 11110.3 | 11325.5 | 10603.0 | 9799.0 | 9268.6 | 8936.5 | 8875.0 |
| 70°   | 9583.7 | 9622.2 | 9935.8  | 10603.0 | 11511.6 | 11783.7 | 10759.8 | 9719.0 | 9094.9 | 8712.1 | 8687.5 |
| 72.5° | 8460.0 | 8380.0 | 8838.1  | 9795.9  | 11053.4 | 11510.0 | 10266.3 | 8876.6 | 8091.0 | 7697.4 | 7651.3 |
| 75°   | 5606.7 | 5780.4 | 6456.8  | 7585.2  | 9351.6  | 9917.4  | 8762.8  | 7127.1 | 6138.6 | 5811.1 | 5760.4 |
| 77.5° | 1874.0 | 2007.8 | 2608.9  | 4299.9  | 6375.3  | 7225.5  | 6384.6  | 4661.2 | 3297.6 | 2656.5 | 2668.8 |
| 80°   | 496.6  | 490.4  | 634.9   | 1182.2  | 2754.9  | 4184.6  | 3206.9  | 1578.8 | 864.0  | 625.7  | 593.4  |
| 82.5° | 178.3  | 199.9  | 256.7   | 327.5   | 730.2   | 1300.6  | 917.8   | 442.8  | 324.4  | 239.8  | 232.1  |
| 85°   | 78.4   | 76.9   | 110.7   | 130.7   | 182.9   | 242.9   | 215.2   | 187.6  | 164.5  | 109.2  | 101.5  |
| 87.5° | 16.9   | 16.9   | 26.1    | 20.0    | 32.3    | 32.3    | 40.0    | 47.7   | 49.2   | 32.3   | 26.1   |
| 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)