

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: P453438

Luminaire Tested: **GLAN-SA4C-727-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4C-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24395 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

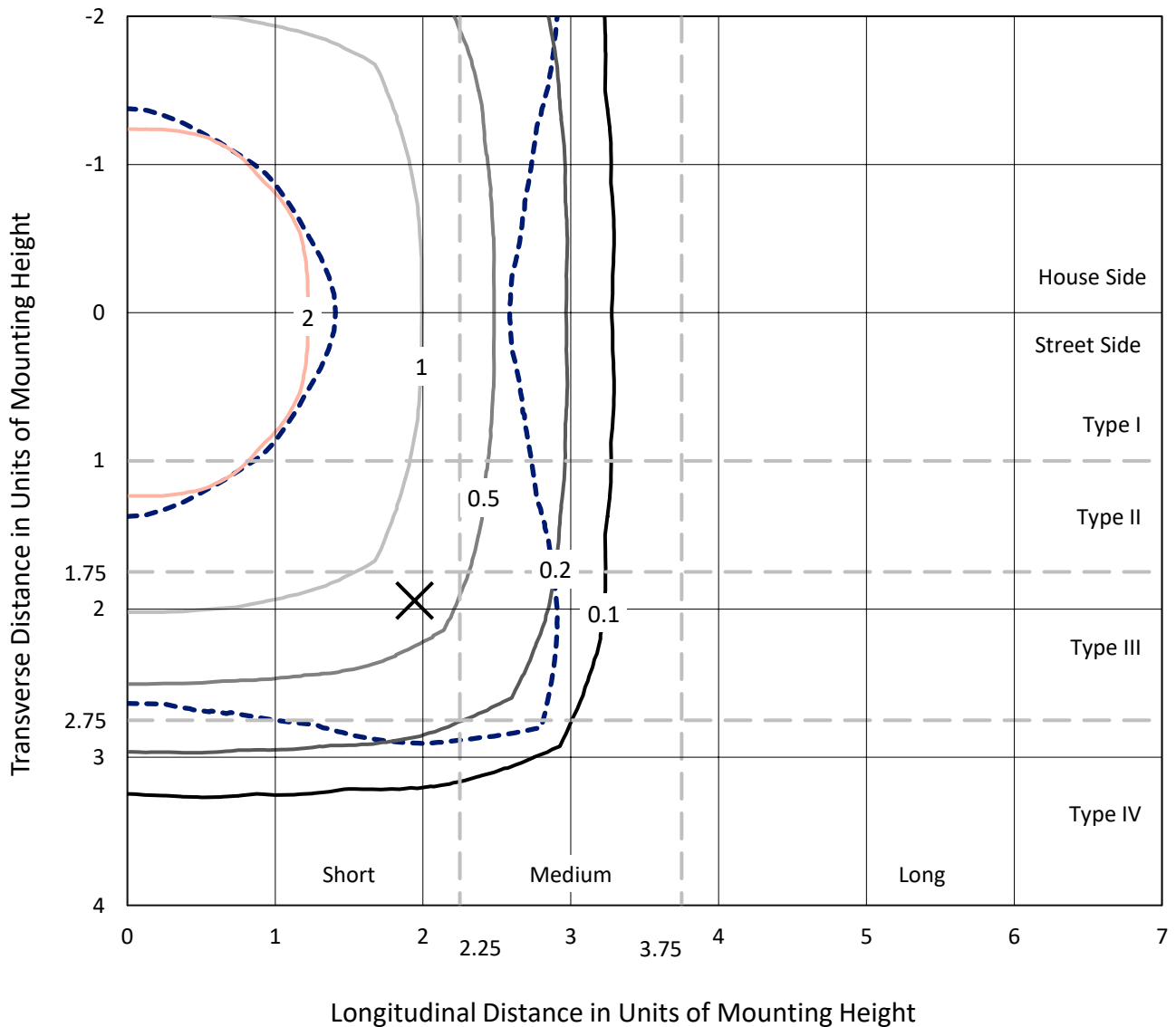
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

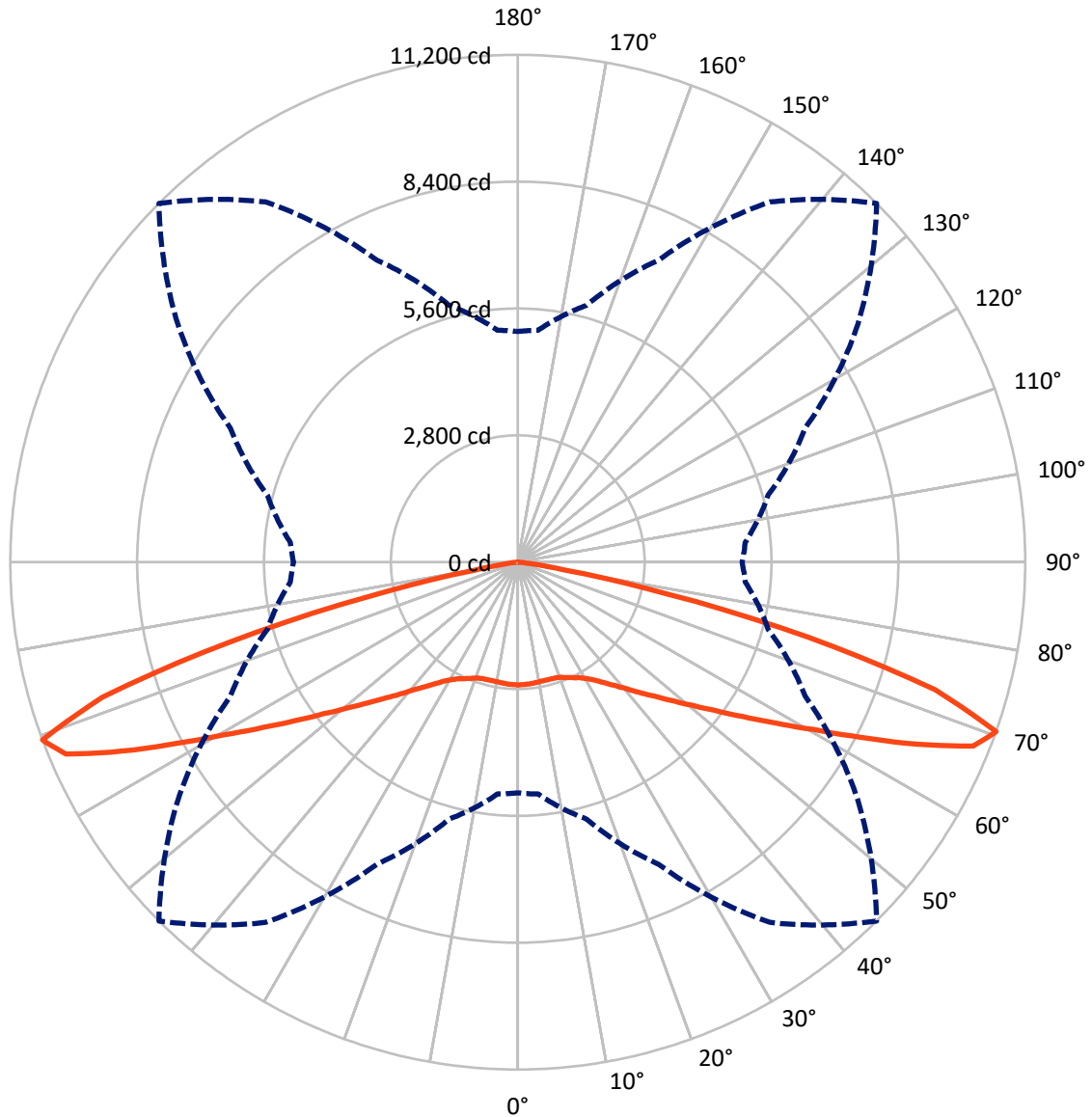
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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    | 12197.5  | 0.0    | 12197.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12197.5  | 0.0    | 12197.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24395.0  | 0.0    | 24395.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 256.9   | 1.1       |
| 10°-20°   | 753.8   | 3.1       |
| 20°-30°   | 1289.2  | 5.3       |
| 30°-40°   | 2046.3  | 8.4       |
| 40°-50°   | 3301.3  | 13.5      |
| 50°-60°   | 5371.2  | 22.0      |
| 60°-70°   | 7786.3  | 31.9      |
| 70°-80°   | 3453.7  | 14.2      |
| 80°-90°   | 136.2   | 0.6       |
| 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°    | 24395.0 | 100.0     |
| 0°-180°   | 24395.0 | 100.0     |



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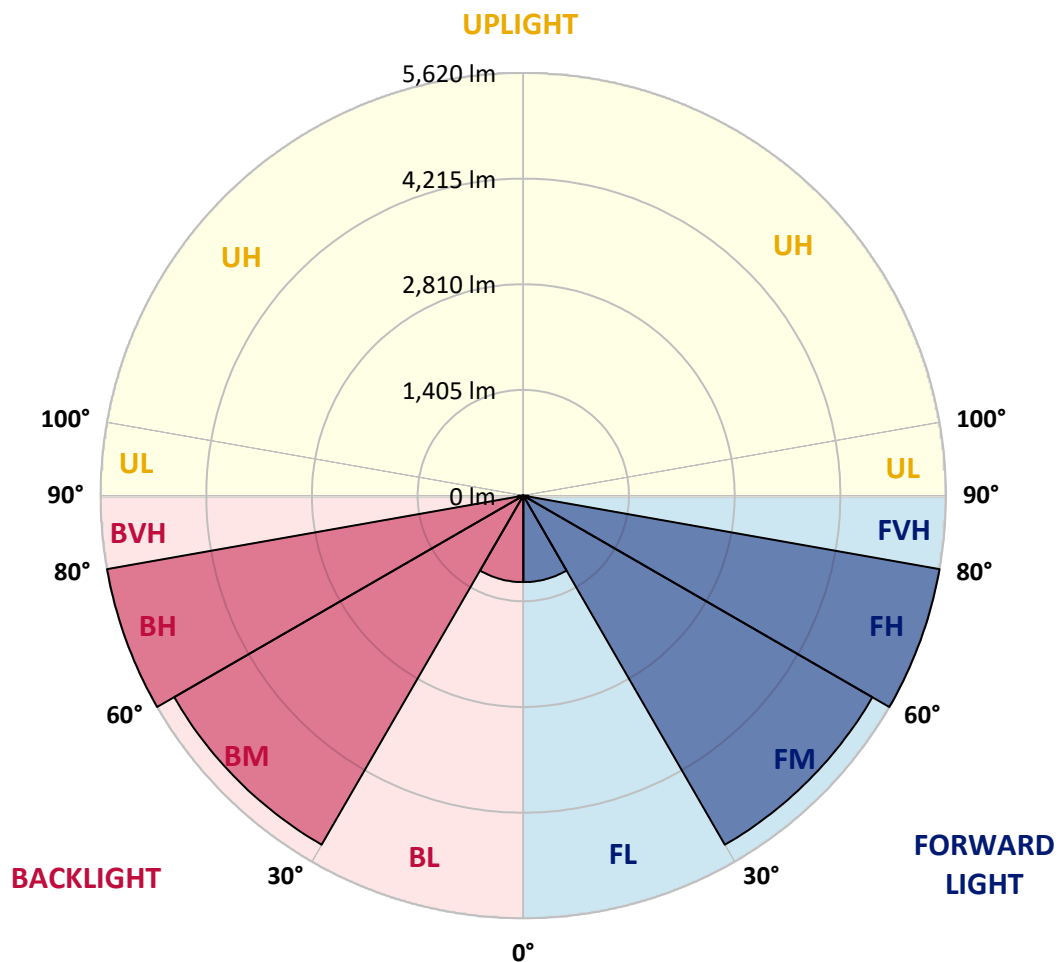
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1150.0 | 4.7       |                         |      |         |
| FM (30°-60°)   | 5359.4 | 22.0      |                         |      |         |
| FH (60°-80°)   | 5620.0 | 23.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 68.1   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1150.0 | 4.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 5359.4 | 22.0      | B4/8500                 |      |         |
| BH (60°-80°)   | 5620.0 | 23.0      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 68.1   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0°    | 2708.9 | 2708.9 | 2708.9 | 2708.9 | 2708.9 | 2708.9  | 2708.9 | 2708.9 | 2708.9 | 2708.9 | 2708.9 |
| 2.5°  | 2708.9 | 2711.5 | 2707.7 | 2705.1 | 2703.8 | 2703.8  | 2702.5 | 2703.8 | 2711.5 | 2712.8 | 2708.9 |
| 5°    | 2701.2 | 2703.8 | 2702.5 | 2699.9 | 2698.7 | 2698.7  | 2697.4 | 2696.1 | 2702.5 | 2705.1 | 2703.8 |
| 7.5°  | 2691.0 | 2692.2 | 2691.0 | 2689.7 | 2691.0 | 2689.7  | 2685.8 | 2683.2 | 2688.4 | 2688.4 | 2687.1 |
| 10°   | 2673.0 | 2675.5 | 2674.2 | 2675.5 | 2678.1 | 2678.1  | 2673.0 | 2667.8 | 2669.1 | 2666.5 | 2666.5 |
| 12.5° | 2651.1 | 2655.0 | 2656.2 | 2661.4 | 2667.8 | 2675.5  | 2664.0 | 2652.4 | 2649.8 | 2648.5 | 2647.2 |
| 15°   | 2637.0 | 2640.8 | 2646.0 | 2651.1 | 2662.7 | 2679.4  | 2662.7 | 2644.7 | 2639.5 | 2634.4 | 2631.8 |
| 17.5° | 2633.1 | 2638.2 | 2646.0 | 2653.7 | 2669.1 | 2685.8  | 2671.7 | 2653.7 | 2640.8 | 2633.1 | 2630.5 |
| 20°   | 2643.4 | 2647.2 | 2658.8 | 2673.0 | 2694.8 | 2711.5  | 2697.4 | 2678.1 | 2658.8 | 2647.2 | 2643.4 |
| 22.5° | 2664.0 | 2670.4 | 2684.5 | 2710.2 | 2741.1 | 2765.5  | 2746.2 | 2714.1 | 2683.2 | 2667.8 | 2662.7 |
| 25°   | 2708.9 | 2714.1 | 2730.8 | 2765.5 | 2801.5 | 2824.7  | 2804.1 | 2766.8 | 2724.4 | 2703.8 | 2697.4 |
| 27.5° | 2777.1 | 2784.8 | 2802.8 | 2843.9 | 2873.5 | 2886.4  | 2872.2 | 2846.5 | 2815.7 | 2793.8 | 2788.7 |
| 30°   | 2873.5 | 2882.5 | 2909.5 | 2953.2 | 2972.5 | 2980.2  | 2973.8 | 2957.1 | 2935.2 | 2912.1 | 2906.9 |
| 32.5° | 3003.4 | 3008.5 | 3039.4 | 3080.5 | 3098.5 | 3101.1  | 3093.4 | 3085.7 | 3049.7 | 3011.1 | 3008.5 |
| 35°   | 3148.7 | 3157.7 | 3194.9 | 3243.8 | 3260.5 | 3261.8  | 3246.4 | 3234.8 | 3192.4 | 3161.5 | 3161.5 |
| 37.5° | 3341.5 | 3345.4 | 3381.4 | 3436.7 | 3454.7 | 3449.5  | 3441.8 | 3431.5 | 3386.5 | 3346.7 | 3347.9 |
| 40°   | 3567.8 | 3575.5 | 3606.4 | 3670.6 | 3670.6 | 3664.2  | 3669.4 | 3661.6 | 3616.6 | 3578.1 | 3579.4 |
| 42.5° | 3836.5 | 3840.4 | 3877.6 | 3945.8 | 3940.6 | 3927.8  | 3932.9 | 3922.6 | 3894.4 | 3850.6 | 3835.2 |
| 45°   | 4123.2 | 4138.6 | 4202.9 | 4268.5 | 4258.2 | 4217.1  | 4237.6 | 4235.1 | 4209.4 | 4143.8 | 4147.6 |
| 47.5° | 4469.1 | 4494.8 | 4556.5 | 4634.9 | 4623.3 | 4559.1  | 4582.2 | 4597.6 | 4561.6 | 4489.6 | 4476.8 |
| 50°   | 4858.6 | 4875.3 | 4966.6 | 5039.9 | 5029.6 | 4961.5  | 5014.2 | 5016.8 | 4926.8 | 4825.2 | 4825.2 |
| 52.5° | 5273.9 | 5290.6 | 5414.0 | 5528.5 | 5534.9 | 5435.9  | 5478.3 | 5475.8 | 5329.2 | 5195.5 | 5169.8 |
| 55°   | 5739.3 | 5747.0 | 5906.5 | 6074.9 | 6110.9 | 6014.5  | 6019.6 | 5968.2 | 5777.9 | 5622.3 | 5608.2 |
| 57.5° | 6220.2 | 6248.5 | 6424.6 | 6643.2 | 6749.9 | 6690.7  | 6663.7 | 6526.2 | 6342.3 | 6163.6 | 6154.6 |
| 60°   | 6752.4 | 6753.7 | 6982.6 | 7241.0 | 7457.0 | 7496.9  | 7386.3 | 7202.4 | 6964.6 | 6728.0 | 6717.7 |
| 62.5° | 7121.4 | 7176.7 | 7466.0 | 7903.1 | 8290.1 | 8513.8  | 8222.0 | 7836.3 | 7368.3 | 6986.4 | 6947.9 |
| 65°   | 7197.3 | 7234.6 | 7675.6 | 8416.1 | 9206.8 | 9689.0  | 9014.0 | 8193.7 | 7395.3 | 6886.2 | 6860.4 |
| 67.5° | 6584.0 | 6623.9 | 7217.9 | 8354.4 | 9849.7 | 10838.4 | 9528.3 | 8021.4 | 6937.6 | 6307.6 | 6257.5 |
| 70°   | 5092.6 | 5137.6 | 5871.7 | 7354.1 | 9707.0 | 11199.6 | 9161.8 | 6996.7 | 5721.3 | 5041.2 | 4949.9 |
| 72.5° | 2707.7 | 2873.5 | 3500.9 | 5047.6 | 7878.7 | 9642.7  | 7512.3 | 5105.5 | 3689.9 | 3016.2 | 2895.4 |
| 75°   | 988.7  | 1009.3 | 1359.0 | 2238.4 | 4583.5 | 6612.3  | 4759.6 | 2435.1 | 1400.1 | 1081.3 | 1026.0 |
| 77.5° | 408.8  | 407.6  | 447.4  | 676.3  | 1665.0 | 3386.5  | 1857.8 | 714.8  | 446.1  | 412.7  | 407.6  |
| 80°   | 241.7  | 241.7  | 266.1  | 281.6  | 438.4  | 1022.1  | 489.8  | 318.9  | 267.4  | 244.3  | 248.1  |
| 82.5° | 108.0  | 114.4  | 168.4  | 177.4  | 212.1  | 280.3   | 236.6  | 203.1  | 174.9  | 120.9  | 109.3  |
| 85°   | 59.1   | 51.4   | 88.7   | 92.6   | 101.6  | 104.1   | 111.9  | 110.6  | 101.6  | 59.1   | 60.4   |
| 87.5° | 11.6   | 14.1   | 25.7   | 19.3   | 21.9   | 19.3    | 25.7   | 36.0   | 37.3   | 20.6   | 16.7   |
| 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)