

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: P455064

Luminaire Tested: **GLAN-SA6B-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455064  
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-SA6B-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29534 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

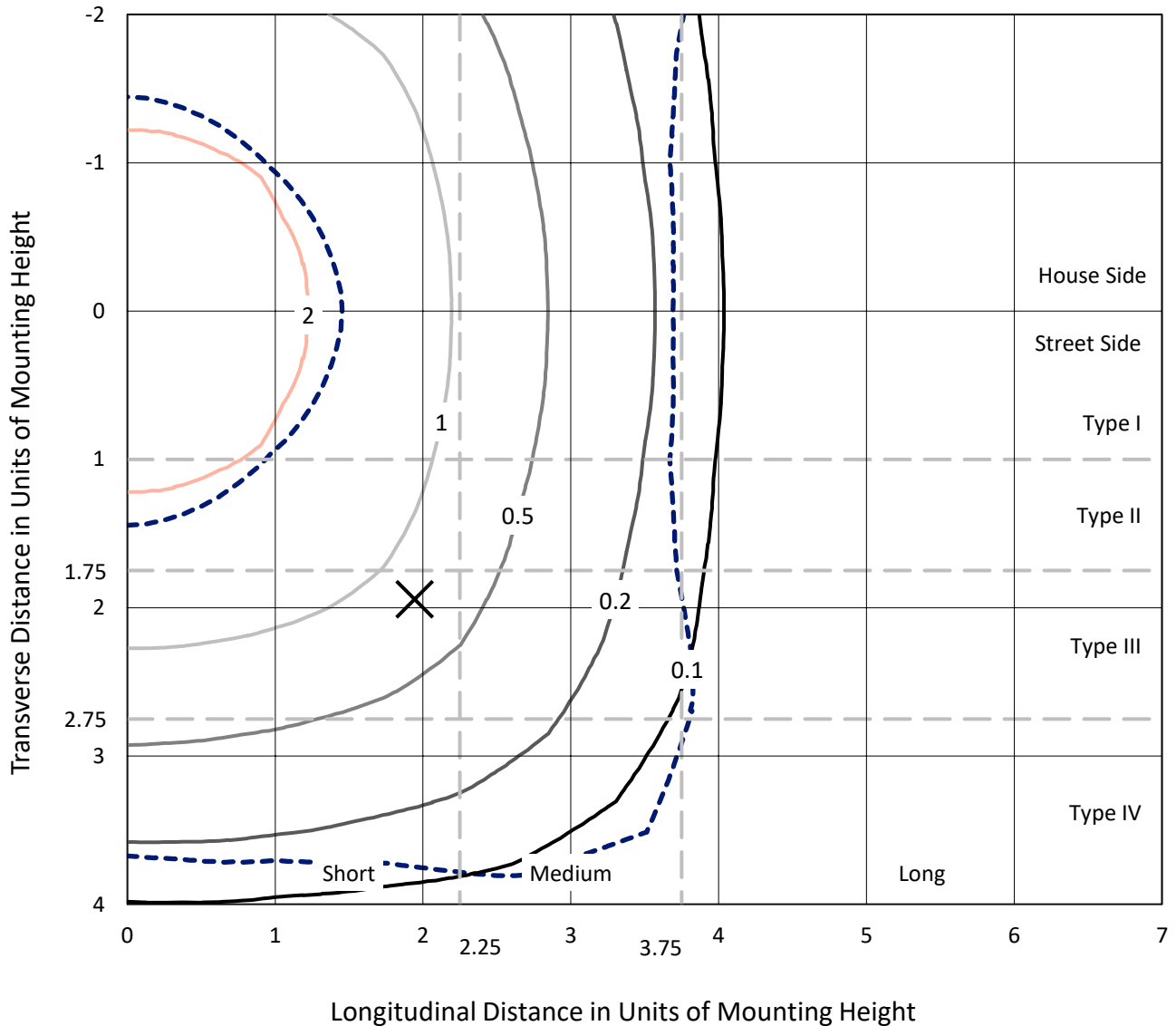
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

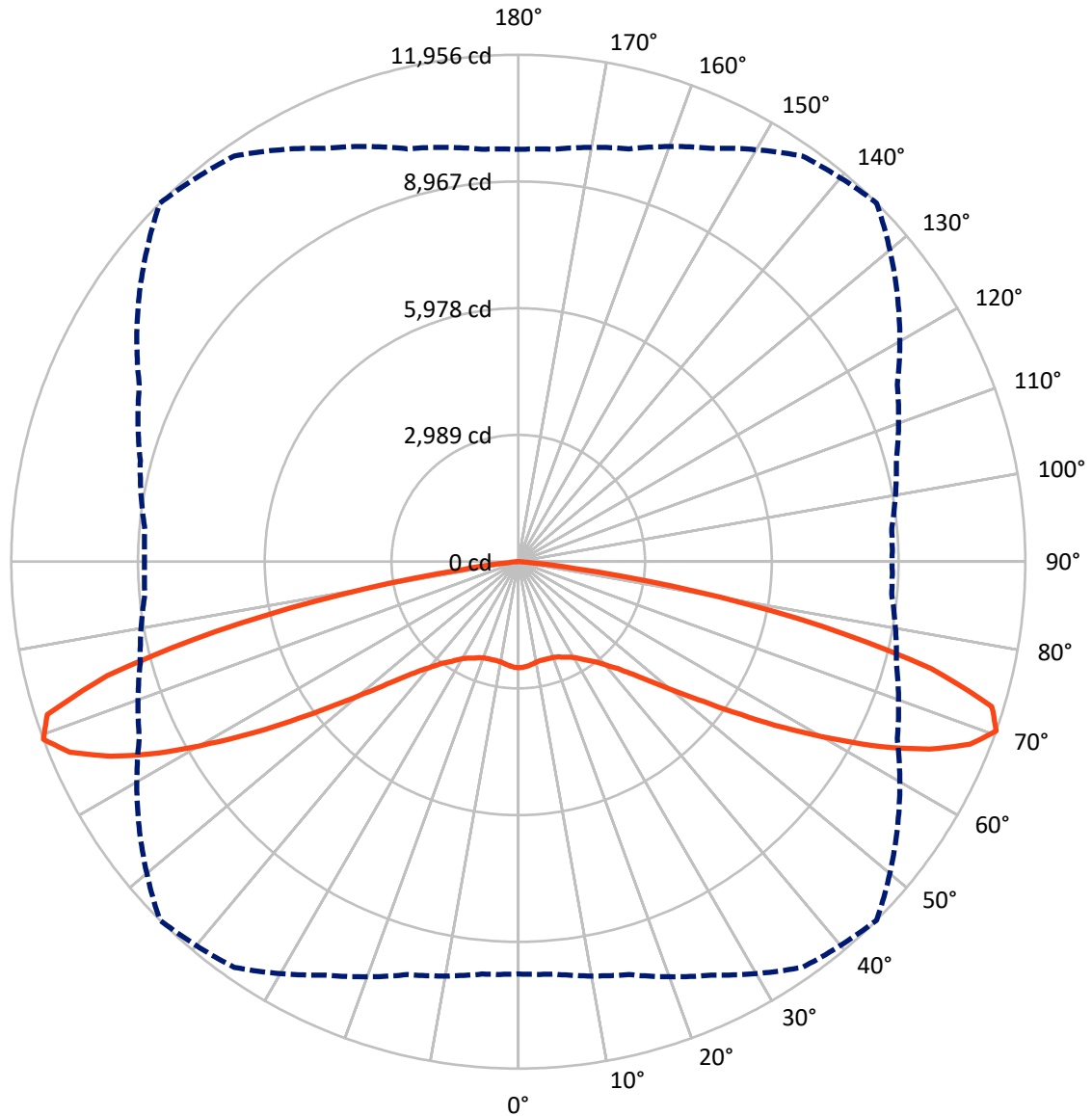
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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    | 14767.0  | 0.0    | 14767.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14767.0  | 0.0    | 14767.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29534.0  | 0.0    | 29534.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 233.8   | 0.8       |
| 10°-20°   | 684.6   | 2.3       |
| 20°-30°   | 1166.3  | 3.9       |
| 30°-40°   | 1807.8  | 6.1       |
| 40°-50°   | 3042.8  | 10.3      |
| 50°-60°   | 5536.3  | 18.7      |
| 60°-70°   | 9372.8  | 31.7      |
| 70°-80°   | 7254.9  | 24.6      |
| 80°-90°   | 434.7   | 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°    | 29534.0 | 100.0     |
| 0°-180°   | 29534.0 | 100.0     |



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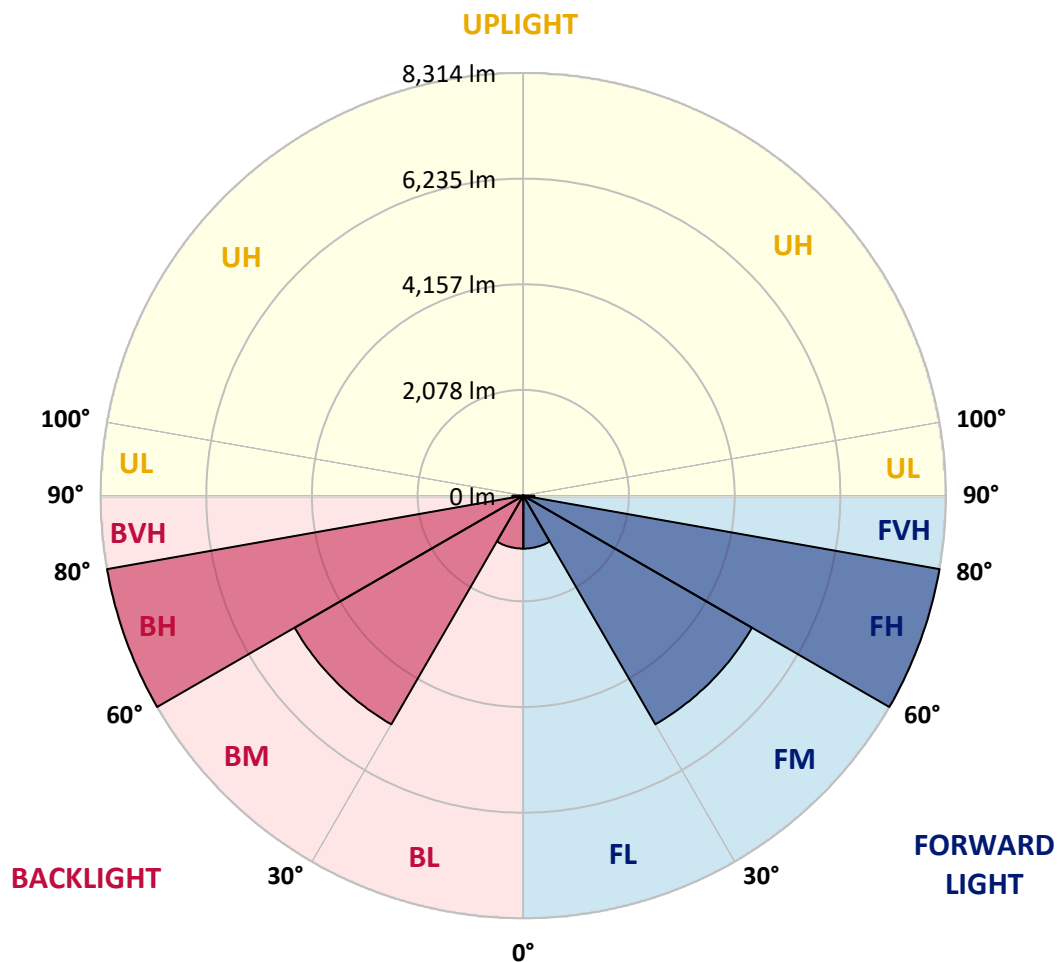
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1042.4 | 3.5       |                         |      |          |
| FM   | (30°-60°)   | 5193.4 | 17.6      |                         |      |          |
| FH   | (60°-80°)   | 8313.8 | 28.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 217.4  | 0.7       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1042.4 | 3.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 5193.4 | 17.6      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 8313.8 | 28.1      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 217.4  | 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°    | 2500.4 | 2500.4 | 2500.4  | 2500.4  | 2500.4  | 2500.4  | 2500.4  | 2500.4 | 2500.4 | 2500.4 | 2500.4 |
| 2.5°  | 2494.2 | 2495.7 | 2495.7  | 2492.6  | 2491.1  | 2491.1  | 2489.5  | 2489.5 | 2494.2 | 2495.7 | 2497.3 |
| 5°    | 2472.3 | 2472.3 | 2472.3  | 2470.8  | 2467.7  | 2467.7  | 2464.5  | 2464.5 | 2466.1 | 2470.8 | 2467.7 |
| 7.5°  | 2442.7 | 2445.8 | 2445.8  | 2439.6  | 2434.9  | 2434.9  | 2433.3  | 2434.9 | 2436.5 | 2441.1 | 2439.6 |
| 10°   | 2433.3 | 2434.9 | 2427.1  | 2416.2  | 2408.4  | 2403.7  | 2405.3  | 2408.4 | 2416.2 | 2419.3 | 2420.9 |
| 12.5° | 2439.6 | 2439.6 | 2425.5  | 2409.9  | 2395.9  | 2389.7  | 2388.1  | 2399.0 | 2413.1 | 2422.4 | 2425.5 |
| 15°   | 2447.4 | 2444.3 | 2427.1  | 2406.8  | 2392.8  | 2391.2  | 2389.7  | 2397.5 | 2417.7 | 2436.5 | 2438.0 |
| 17.5° | 2452.1 | 2450.5 | 2428.7  | 2403.7  | 2395.9  | 2395.9  | 2394.3  | 2400.6 | 2422.4 | 2445.8 | 2447.4 |
| 20°   | 2467.7 | 2463.0 | 2438.0  | 2411.5  | 2405.3  | 2408.4  | 2403.7  | 2411.5 | 2434.9 | 2463.0 | 2469.2 |
| 22.5° | 2498.9 | 2494.2 | 2469.2  | 2442.7  | 2439.6  | 2439.6  | 2438.0  | 2445.8 | 2470.8 | 2500.4 | 2505.1 |
| 25°   | 2536.3 | 2531.6 | 2508.2  | 2489.5  | 2492.6  | 2498.9  | 2495.7  | 2497.3 | 2517.6 | 2542.5 | 2550.3 |
| 27.5° | 2586.2 | 2578.4 | 2558.1  | 2542.5  | 2551.9  | 2551.9  | 2551.9  | 2550.3 | 2562.8 | 2586.2 | 2594.0 |
| 30°   | 2647.0 | 2643.9 | 2622.1  | 2620.5  | 2628.3  | 2620.5  | 2620.5  | 2622.1 | 2623.6 | 2645.5 | 2653.3 |
| 32.5° | 2726.6 | 2720.4 | 2709.4  | 2706.3  | 2728.2  | 2734.4  | 2712.6  | 2692.3 | 2703.2 | 2725.0 | 2729.7 |
| 35°   | 2857.6 | 2848.3 | 2832.7  | 2815.5  | 2832.7  | 2862.3  | 2815.5  | 2799.9 | 2828.0 | 2857.6 | 2860.7 |
| 37.5° | 3035.4 | 3030.8 | 3005.8  | 2974.6  | 2973.0  | 3004.2  | 2955.9  | 2954.3 | 3007.4 | 3043.2 | 3047.9 |
| 40°   | 3258.5 | 3263.2 | 3232.0  | 3202.3  | 3186.7  | 3211.7  | 3174.3  | 3188.3 | 3239.8 | 3280.3 | 3277.2 |
| 42.5° | 3572.0 | 3554.9 | 3506.5  | 3478.4  | 3461.3  | 3451.9  | 3442.6  | 3464.4 | 3522.1 | 3565.8 | 3600.1 |
| 45°   | 3938.6 | 3932.3 | 3871.5  | 3837.2  | 3799.8  | 3785.7  | 3782.6  | 3821.6 | 3891.8 | 3944.8 | 3949.5 |
| 47.5° | 4353.5 | 4339.5 | 4300.5  | 4264.6  | 4250.5  | 4233.4  | 4217.8  | 4247.4 | 4317.6 | 4355.1 | 4366.0 |
| 50°   | 4780.9 | 4784.0 | 4784.0  | 4777.8  | 4791.8  | 4794.9  | 4752.8  | 4763.7 | 4802.7 | 4799.6 | 4796.5 |
| 52.5° | 5269.1 | 5286.3 | 5367.4  | 5375.2  | 5442.3  | 5487.5  | 5411.1  | 5365.8 | 5351.8 | 5267.6 | 5273.8 |
| 55°   | 5843.1 | 5858.7 | 5980.4  | 6102.1  | 6283.0  | 6359.4  | 6198.8  | 6058.4 | 5958.6 | 5830.7 | 5836.9 |
| 57.5° | 6559.1 | 6566.9 | 6682.3  | 6916.3  | 7203.3  | 7382.7  | 7100.4  | 6822.7 | 6619.9 | 6498.3 | 6449.9 |
| 60°   | 7329.7 | 7337.5 | 7505.9  | 7791.4  | 8237.5  | 8455.9  | 8106.5  | 7652.5 | 7396.7 | 7211.1 | 7223.6 |
| 62.5° | 8254.6 | 8285.8 | 8437.1  | 8830.2  | 9371.5  | 9616.4  | 9153.1  | 8546.3 | 8200.1 | 7969.2 | 7978.6 |
| 65°   | 9245.1 | 9298.2 | 9463.5  | 9895.6  | 10394.7 | 10658.3 | 10090.6 | 9390.2 | 8959.7 | 8677.4 | 8707.0 |
| 67.5° | 9887.8 | 9934.6 | 10173.2 | 10650.6 | 11272.9 | 11491.3 | 10758.2 | 9942.4 | 9404.2 | 9067.3 | 9004.9 |
| 70°   | 9724.0 | 9763.0 | 10081.2 | 10758.2 | 11680.0 | 11956.1 | 10917.3 | 9861.3 | 9228.0 | 8839.6 | 8814.6 |
| 72.5° | 8583.8 | 8502.7 | 8967.5  | 9939.3  | 11215.2 | 11678.5 | 10416.6 | 9006.5 | 8209.4 | 7810.1 | 7763.3 |
| 75°   | 5688.7 | 5865.0 | 6551.3  | 7696.2  | 9488.5  | 10062.5 | 8891.1  | 7231.4 | 6228.4 | 5896.2 | 5844.7 |
| 77.5° | 1901.4 | 2037.1 | 2647.0  | 4362.9  | 6468.6  | 7331.2  | 6478.0  | 4729.4 | 3345.8 | 2695.4 | 2707.9 |
| 80°   | 503.8  | 497.6  | 644.2   | 1199.5  | 2795.2  | 4245.9  | 3253.8  | 1602.0 | 876.6  | 634.9  | 602.1  |
| 82.5° | 180.9  | 202.8  | 260.5   | 332.2   | 740.9   | 1319.6  | 931.2   | 449.2  | 329.1  | 243.3  | 235.5  |
| 85°   | 79.6   | 78.0   | 112.3   | 132.6   | 185.6   | 246.5   | 218.4   | 190.3  | 166.9  | 110.7  | 102.9  |
| 87.5° | 17.2   | 17.2   | 26.5    | 20.3    | 32.8    | 32.8    | 40.6    | 48.4   | 49.9   | 32.8   | 26.5   |
| 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)