

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: P316300

Luminaire Tested: **GAN-SA6D-827-U-5WQ**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P316300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6D-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 35933 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

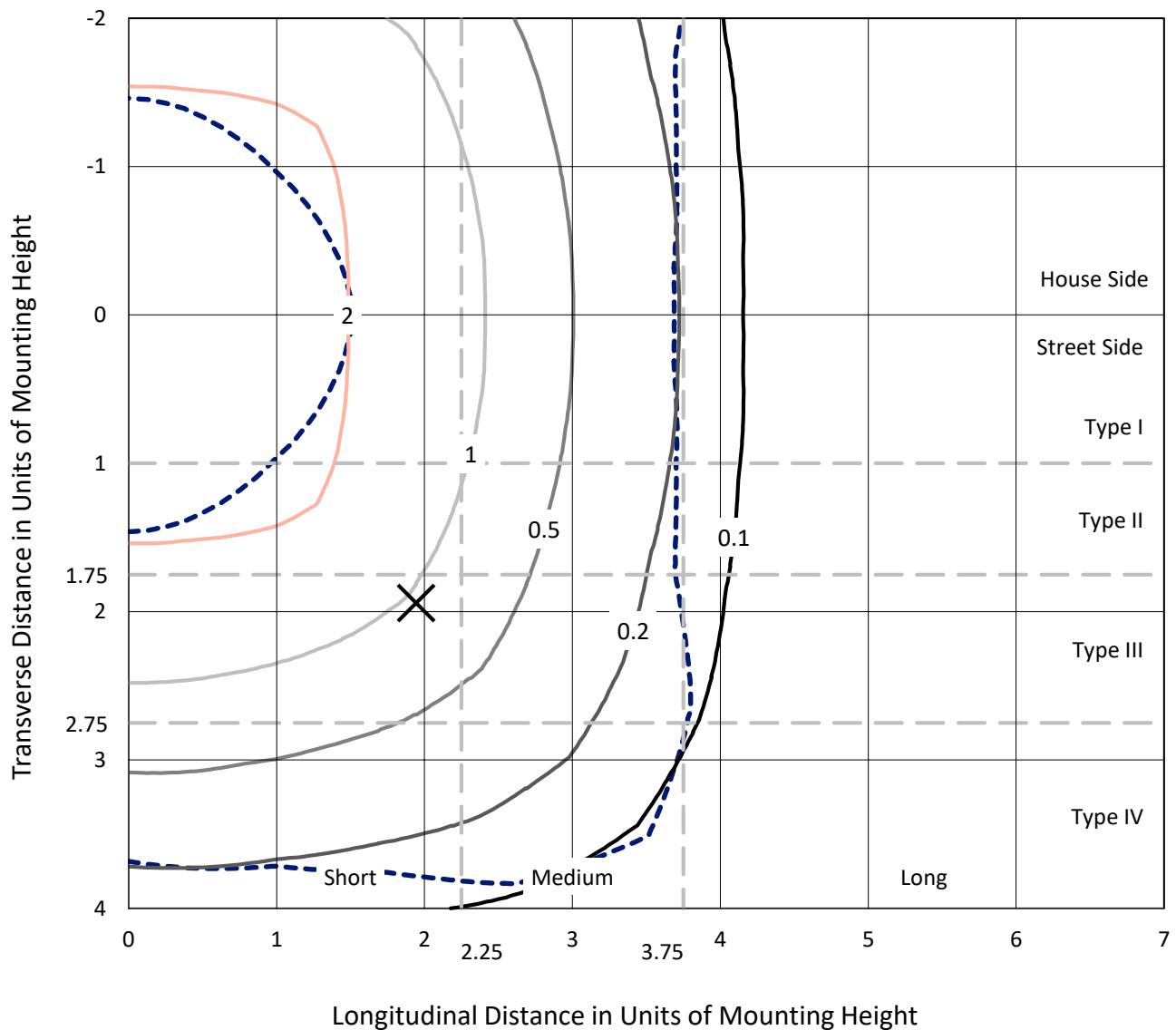
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

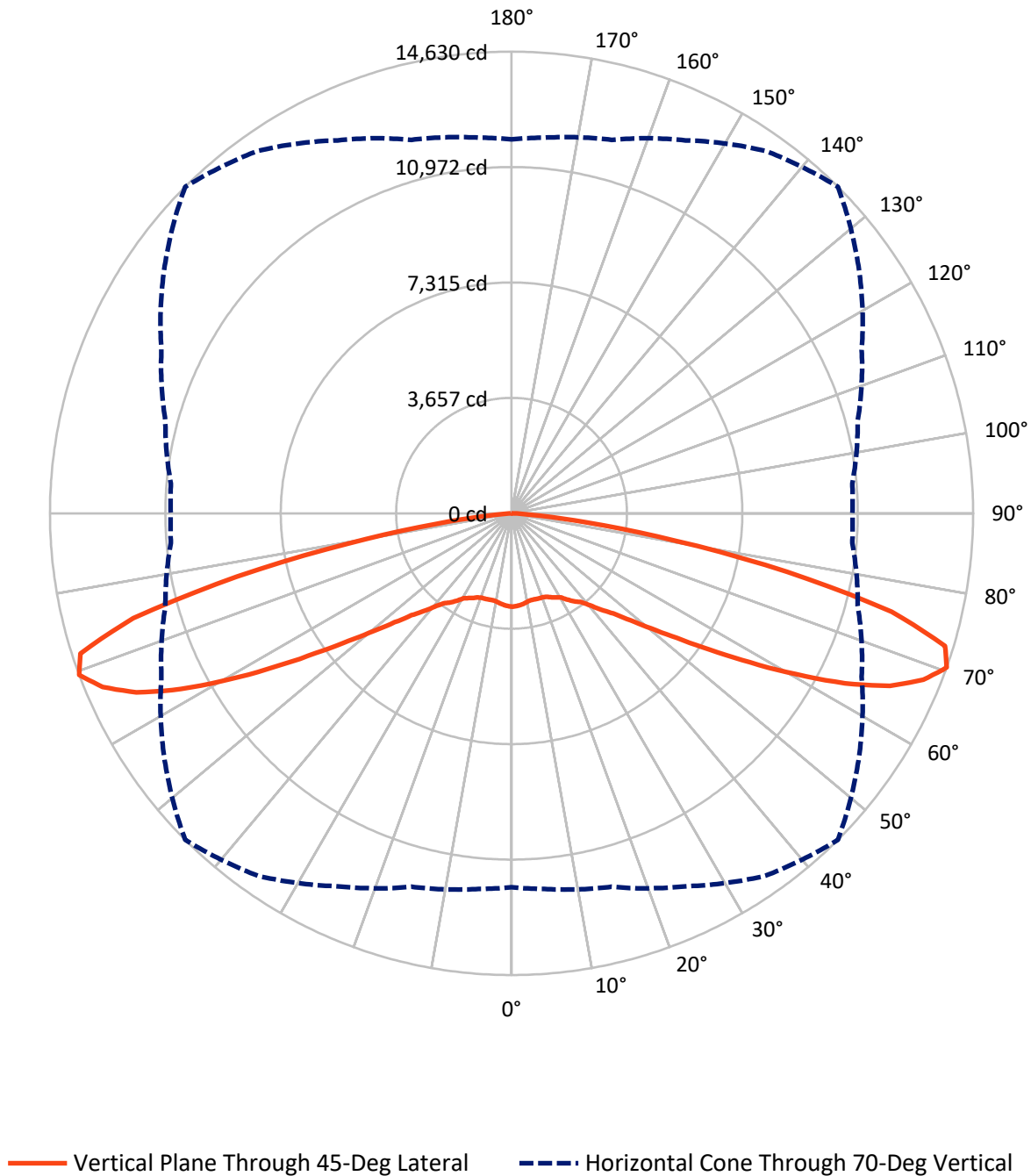
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17966.5  | 0.0    | 17966.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17966.5  | 0.0    | 17966.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 35933.0  | 0.0    | 35933.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 276.0   | 0.8       |
| 10°-20°   | 806.2   | 2.2       |
| 20°-30°   | 1374.6  | 3.8       |
| 30°-40°   | 2147.9  | 6.0       |
| 40°-50°   | 3640.2  | 10.1      |
| 50°-60°   | 6638.1  | 18.5      |
| 60°-70°   | 11428.0 | 31.8      |
| 70°-80°   | 8957.7  | 24.9      |
| 80°-90°   | 664.2   | 1.8       |
| 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°    | 35933.0 | 100.0     |
| 0°-180°   | 35933.0 | 100.0     |

**Coefficient of Utilization**



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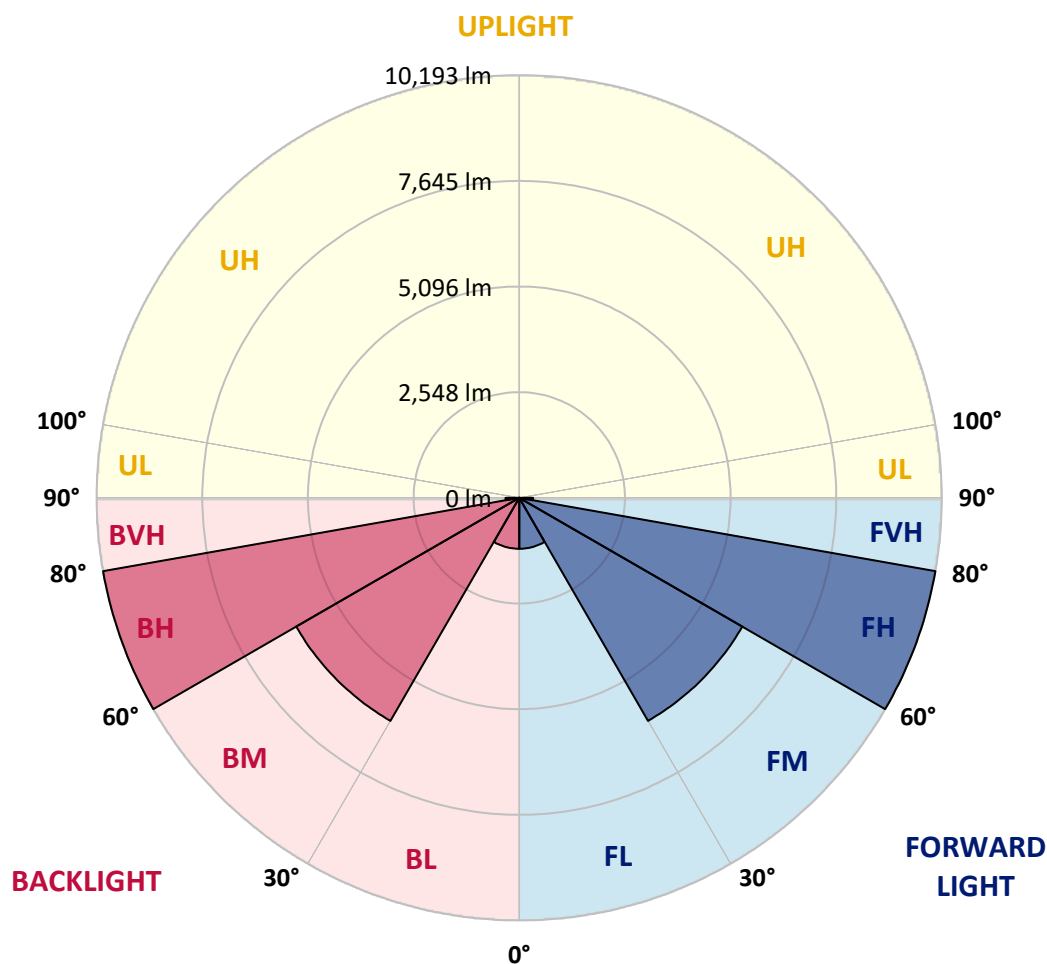
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1228.4  | 3.4       |                         |      |          |
| FM   | (30°-60°)   | 6213.1  | 17.3      |                         |      |          |
| FH   | (60°-80°)   | 10192.9 | 28.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 332.1   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1228.4  | 3.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 6213.1  | 17.3      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 10192.9 | 28.4      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 332.1   | 0.9       |                         |      | 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°    | 2957.3  | 2957.3  | 2957.3  | 2957.3  | 2957.3  | 2957.3  | 2957.3  | 2957.3  | 2957.3  | 2957.3  | 2957.3  |
| 2.5°  | 2944.2  | 2947.8  | 2944.2  | 2946.6  | 2940.7  | 2943.0  | 2943.0  | 2943.0  | 2941.8  | 2943.0  | 2940.7  |
| 5°    | 2918.1  | 2920.4  | 2915.7  | 2918.1  | 2914.5  | 2918.1  | 2919.3  | 2918.1  | 2915.7  | 2916.9  | 2912.1  |
| 7.5°  | 2878.8  | 2881.2  | 2877.7  | 2881.2  | 2876.5  | 2882.4  | 2881.2  | 2877.7  | 2874.1  | 2874.1  | 2869.3  |
| 10°   | 2857.4  | 2858.6  | 2849.1  | 2845.6  | 2834.9  | 2837.2  | 2840.8  | 2844.4  | 2847.9  | 2855.1  | 2853.9  |
| 12.5° | 2858.6  | 2858.6  | 2844.4  | 2828.9  | 2813.5  | 2817.0  | 2823.0  | 2836.1  | 2850.3  | 2863.4  | 2864.6  |
| 15°   | 2870.5  | 2869.3  | 2847.9  | 2823.0  | 2812.3  | 2823.0  | 2826.5  | 2834.9  | 2857.4  | 2880.0  | 2881.2  |
| 17.5° | 2878.8  | 2878.8  | 2845.6  | 2817.0  | 2815.8  | 2832.5  | 2831.3  | 2834.9  | 2859.8  | 2893.1  | 2894.3  |
| 20°   | 2894.3  | 2894.3  | 2851.5  | 2820.6  | 2820.6  | 2838.4  | 2839.6  | 2845.6  | 2870.5  | 2907.4  | 2913.3  |
| 22.5° | 2928.8  | 2930.0  | 2884.8  | 2859.8  | 2862.2  | 2872.9  | 2876.5  | 2886.0  | 2908.6  | 2949.0  | 2956.1  |
| 25°   | 2977.5  | 2979.9  | 2933.5  | 2919.3  | 2927.6  | 2947.8  | 2945.4  | 2952.5  | 2977.5  | 3016.7  | 3023.9  |
| 27.5° | 3045.2  | 3039.3  | 2996.5  | 2990.6  | 2998.9  | 3013.2  | 3012.0  | 3013.2  | 3033.4  | 3069.0  | 3077.3  |
| 30°   | 3133.2  | 3130.8  | 3099.9  | 3103.5  | 3099.9  | 3095.2  | 3096.4  | 3105.9  | 3116.6  | 3145.1  | 3153.4  |
| 32.5° | 3218.8  | 3221.2  | 3202.1  | 3220.0  | 3246.1  | 3264.0  | 3236.6  | 3210.5  | 3198.6  | 3214.0  | 3221.2  |
| 35°   | 3373.3  | 3379.3  | 3349.5  | 3337.6  | 3373.3  | 3425.6  | 3348.3  | 3305.6  | 3329.3  | 3349.5  | 3355.5  |
| 37.5° | 3636.0  | 3639.6  | 3589.6  | 3542.1  | 3515.9  | 3565.9  | 3488.6  | 3492.2  | 3575.4  | 3613.4  | 3612.2  |
| 40°   | 3935.5  | 3936.7  | 3903.4  | 3861.8  | 3816.7  | 3828.6  | 3797.6  | 3807.2  | 3861.8  | 3896.3  | 3905.8  |
| 42.5° | 4292.1  | 4288.5  | 4236.2  | 4176.8  | 4163.7  | 4175.6  | 4123.3  | 4116.2  | 4179.2  | 4241.0  | 4242.2  |
| 45°   | 4754.5  | 4746.2  | 4678.4  | 4613.0  | 4550.0  | 4523.9  | 4510.8  | 4545.3  | 4632.1  | 4689.1  | 4690.3  |
| 47.5° | 5252.5  | 5229.9  | 5194.3  | 5142.0  | 5087.3  | 5061.2  | 5039.8  | 5056.4  | 5119.4  | 5142.0  | 5144.4  |
| 50°   | 5764.8  | 5769.6  | 5776.7  | 5756.5  | 5736.3  | 5728.0  | 5672.1  | 5640.0  | 5659.0  | 5617.4  | 5611.5  |
| 52.5° | 6372.2  | 6381.7  | 6450.7  | 6508.9  | 6543.4  | 6561.2  | 6455.4  | 6344.9  | 6283.1  | 6202.2  | 6178.5  |
| 55°   | 7088.9  | 7104.4  | 7205.4  | 7367.1  | 7533.5  | 7621.4  | 7430.1  | 7223.3  | 7031.9  | 6880.9  | 6832.2  |
| 57.5° | 7887.7  | 7915.0  | 8054.1  | 8364.3  | 8705.5  | 8913.5  | 8590.2  | 8214.6  | 7844.9  | 7627.4  | 7589.3  |
| 60°   | 8824.3  | 8850.5  | 9043.0  | 9487.6  | 10040.3 | 10352.9 | 9863.2  | 9248.7  | 8788.7  | 8580.7  | 8510.5  |
| 62.5° | 9939.3  | 9941.6  | 10178.2 | 10697.6 | 11427.4 | 11862.4 | 11199.2 | 10377.9 | 9903.6  | 9652.8  | 9585.0  |
| 65°   | 11138.6 | 11144.5 | 11389.4 | 11950.4 | 12705.2 | 13178.2 | 12429.4 | 11573.6 | 10993.6 | 10623.9 | 10571.6 |
| 67.5° | 11986.1 | 12011.0 | 12269.0 | 12944.1 | 13650.1 | 14076.8 | 13301.9 | 12334.3 | 11663.9 | 11223.0 | 11179.0 |
| 70°   | 11850.6 | 11948.0 | 12251.1 | 13039.2 | 14021.0 | 14629.6 | 13443.3 | 12244.0 | 11359.7 | 10839.0 | 10802.2 |
| 72.5° | 10335.1 | 10521.7 | 10925.8 | 11959.9 | 13530.1 | 14368.1 | 12671.9 | 10966.2 | 9965.4  | 9522.0  | 9455.5  |
| 75°   | 7037.8  | 7340.9  | 7950.7  | 9442.4  | 11559.3 | 12440.1 | 10667.9 | 8743.5  | 7802.1  | 7188.8  | 7143.6  |
| 77.5° | 3138.0  | 3206.9  | 3979.5  | 5697.1  | 7976.8  | 8933.7  | 7751.0  | 5719.6  | 4293.3  | 3424.4  | 3241.4  |
| 80°   | 874.8   | 885.5   | 1181.5  | 2121.7  | 3992.6  | 5249.0  | 4286.2  | 2228.7  | 1252.8  | 883.1   | 832.0   |
| 82.5° | 278.1   | 301.9   | 368.5   | 550.3   | 1342.0  | 2395.1  | 1377.6  | 594.3   | 423.1   | 337.6   | 304.3   |
| 85°   | 135.5   | 134.3   | 186.6   | 223.5   | 342.3   | 530.1   | 364.9   | 275.8   | 241.3   | 160.5   | 145.0   |
| 87.5° | 57.1    | 58.2    | 86.8    | 78.4    | 99.8    | 85.6    | 117.7   | 123.6   | 129.6   | 71.3    | 61.8    |
| 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)