

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: P316151

Luminaire Tested: **GAN-SA7A-740-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316151  
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-SA7A-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 34721 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

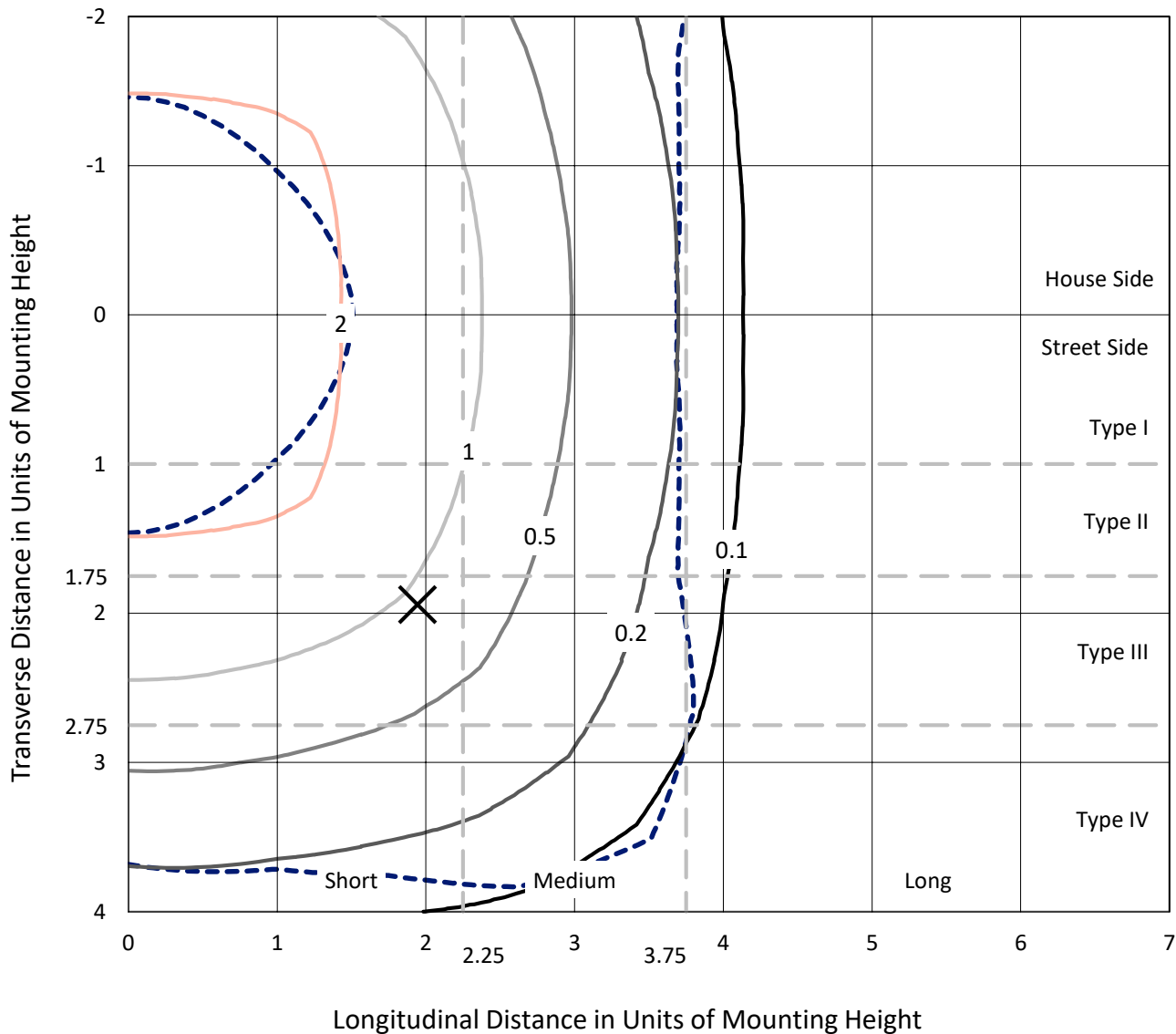
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

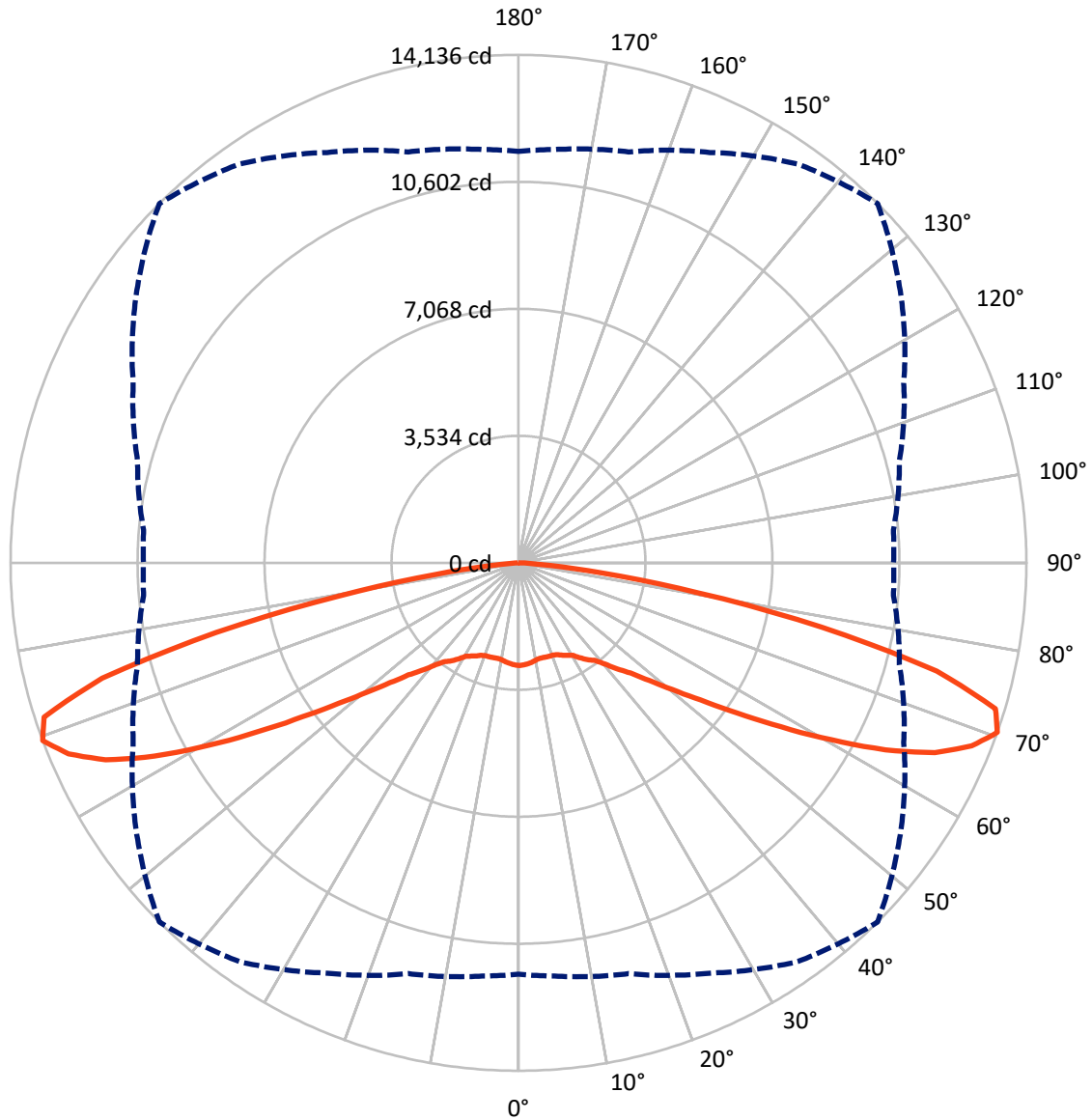
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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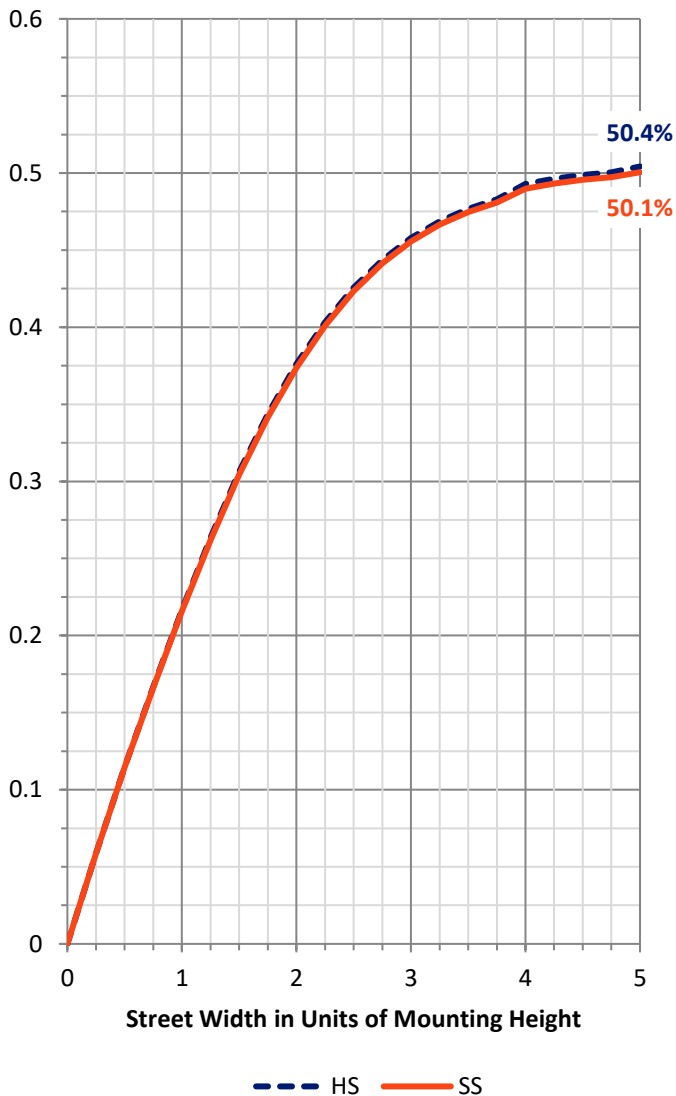
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17360.5  | 0.0    | 17360.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17360.5  | 0.0    | 17360.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 34721.0  | 0.0    | 34721.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 266.7   | 0.8       |
| 10°-20°   | 779.1   | 2.2       |
| 20°-30°   | 1328.3  | 3.8       |
| 30°-40°   | 2075.4  | 6.0       |
| 40°-50°   | 3517.4  | 10.1      |
| 50°-60°   | 6414.2  | 18.5      |
| 60°-70°   | 11042.5 | 31.8      |
| 70°-80°   | 8655.6  | 24.9      |
| 80°-90°   | 641.8   | 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°    | 34721.0 | 100.0     |
| 0°-180°   | 34721.0 | 100.0     |

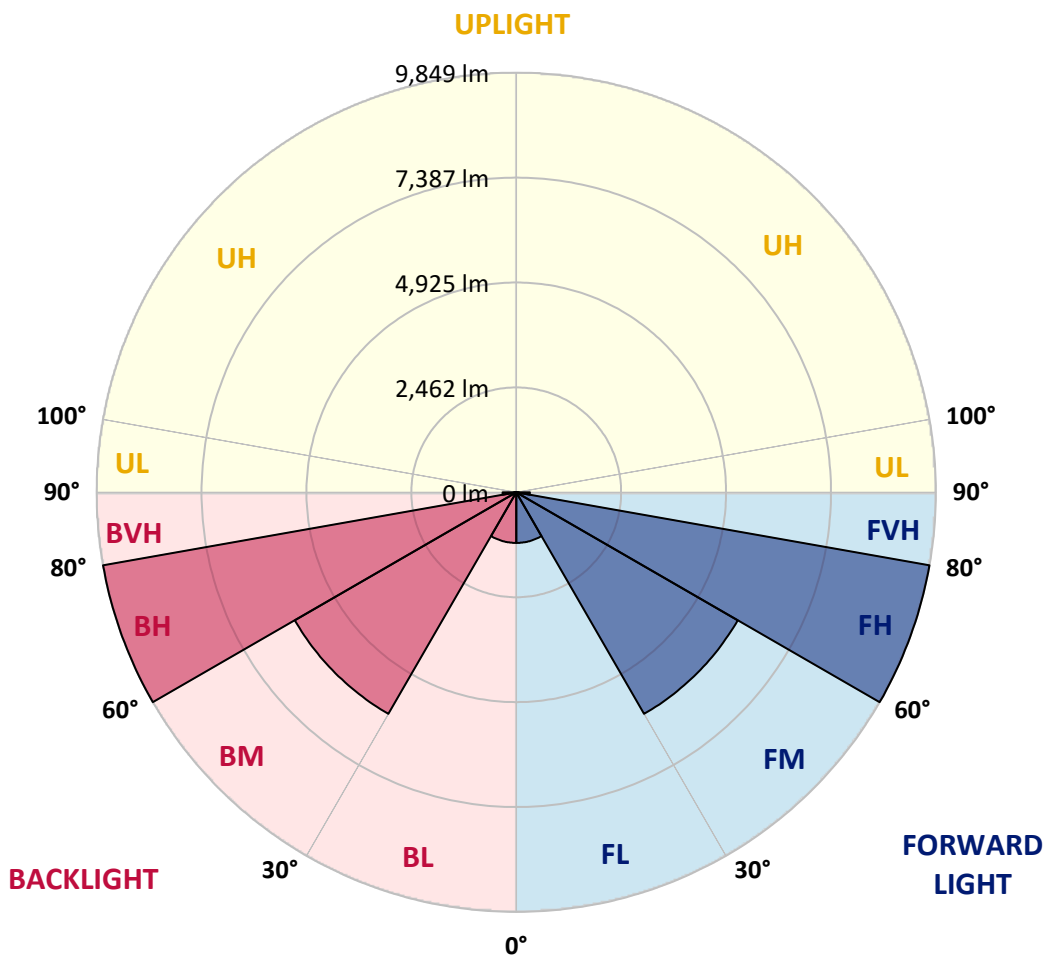


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1187.0 | 3.4       |                         |      |          |
| FM (30°-60°)   | 6003.5 | 17.3      |                         |      |          |
| FH (60°-80°)   | 9849.1 | 28.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 320.9  | 0.9       |                         |      | G3/500   |
| BL (0°-30°)    | 1187.0 | 3.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 6003.5 | 17.3      | B4/8500                 |      |          |
| BH (60°-80°)   | 9849.1 | 28.4      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 320.9  | 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°    | 2857.5  | 2857.5  | 2857.5  | 2857.5  | 2857.5  | 2857.5  | 2857.5  | 2857.5  | 2857.5  | 2857.5  | 2857.5  |
| 2.5°  | 2844.9  | 2848.4  | 2844.9  | 2847.2  | 2841.5  | 2843.8  | 2843.8  | 2843.8  | 2842.6  | 2843.8  | 2841.5  |
| 5°    | 2819.6  | 2821.9  | 2817.3  | 2819.6  | 2816.2  | 2819.6  | 2820.8  | 2819.6  | 2817.3  | 2818.5  | 2813.9  |
| 7.5°  | 2781.7  | 2784.0  | 2780.6  | 2784.0  | 2779.4  | 2785.2  | 2784.0  | 2780.6  | 2777.1  | 2777.1  | 2772.6  |
| 10°   | 2761.1  | 2762.2  | 2753.0  | 2749.6  | 2739.2  | 2741.5  | 2745.0  | 2748.4  | 2751.9  | 2758.8  | 2757.6  |
| 12.5° | 2762.2  | 2762.2  | 2748.4  | 2733.5  | 2718.6  | 2722.0  | 2727.8  | 2740.4  | 2754.2  | 2766.8  | 2768.0  |
| 15°   | 2773.7  | 2772.6  | 2751.9  | 2727.8  | 2717.4  | 2727.8  | 2731.2  | 2739.2  | 2761.1  | 2782.9  | 2784.0  |
| 17.5° | 2781.7  | 2781.7  | 2749.6  | 2722.0  | 2720.9  | 2736.9  | 2735.8  | 2739.2  | 2763.4  | 2795.5  | 2796.7  |
| 20°   | 2796.7  | 2796.7  | 2755.3  | 2725.5  | 2725.5  | 2742.7  | 2743.8  | 2749.6  | 2773.7  | 2809.3  | 2815.0  |
| 22.5° | 2830.0  | 2831.1  | 2787.5  | 2763.4  | 2765.7  | 2776.0  | 2779.4  | 2788.6  | 2810.5  | 2849.5  | 2856.4  |
| 25°   | 2877.1  | 2879.4  | 2834.6  | 2820.8  | 2828.8  | 2848.4  | 2846.1  | 2852.9  | 2877.1  | 2915.0  | 2921.9  |
| 27.5° | 2942.5  | 2936.8  | 2895.4  | 2889.7  | 2897.7  | 2911.5  | 2910.4  | 2911.5  | 2931.0  | 2965.5  | 2973.5  |
| 30°   | 3027.5  | 3025.2  | 2995.4  | 2998.8  | 2995.4  | 2990.8  | 2991.9  | 3001.1  | 3011.4  | 3039.0  | 3047.1  |
| 32.5° | 3110.2  | 3112.5  | 3094.1  | 3111.4  | 3136.6  | 3153.9  | 3127.4  | 3102.2  | 3090.7  | 3105.6  | 3112.5  |
| 35°   | 3259.5  | 3265.3  | 3236.6  | 3225.1  | 3259.5  | 3310.1  | 3235.4  | 3194.1  | 3217.0  | 3236.6  | 3242.3  |
| 37.5° | 3513.4  | 3516.8  | 3468.6  | 3422.6  | 3397.4  | 3445.6  | 3370.9  | 3374.4  | 3454.8  | 3491.5  | 3490.4  |
| 40°   | 3802.8  | 3803.9  | 3771.8  | 3731.6  | 3687.9  | 3699.4  | 3669.6  | 3678.7  | 3731.6  | 3764.9  | 3774.1  |
| 42.5° | 4147.3  | 4143.9  | 4093.4  | 4035.9  | 4023.3  | 4034.8  | 3984.3  | 3977.4  | 4038.2  | 4098.0  | 4099.1  |
| 45°   | 4594.1  | 4586.1  | 4520.6  | 4457.4  | 4396.6  | 4371.3  | 4358.7  | 4392.0  | 4475.8  | 4531.0  | 4532.1  |
| 47.5° | 5075.4  | 5053.5  | 5019.1  | 4968.5  | 4915.7  | 4890.4  | 4869.8  | 4885.8  | 4946.7  | 4968.5  | 4970.8  |
| 50°   | 5570.4  | 5575.0  | 5581.9  | 5562.3  | 5542.8  | 5534.8  | 5480.8  | 5449.8  | 5468.2  | 5428.0  | 5422.2  |
| 52.5° | 6157.3  | 6166.5  | 6233.1  | 6289.4  | 6322.7  | 6339.9  | 6237.7  | 6130.9  | 6071.1  | 5993.0  | 5970.1  |
| 55°   | 6849.8  | 6864.8  | 6962.4  | 7118.6  | 7279.4  | 7364.4  | 7179.5  | 6979.6  | 6794.7  | 6648.8  | 6601.8  |
| 57.5° | 7621.6  | 7648.1  | 7782.4  | 8082.2  | 8411.8  | 8612.8  | 8300.4  | 7937.5  | 7580.3  | 7370.1  | 7333.4  |
| 60°   | 8526.7  | 8552.0  | 8738.0  | 9167.6  | 9701.6  | 10003.7 | 9530.5  | 8936.7  | 8492.2  | 8291.2  | 8223.5  |
| 62.5° | 9604.0  | 9606.3  | 9834.9  | 10336.8 | 11042.0 | 11462.3 | 10821.5 | 10027.8 | 9569.6  | 9327.2  | 9261.7  |
| 65°   | 10762.9 | 10768.6 | 11005.2 | 11547.3 | 12276.6 | 12733.8 | 12010.2 | 11183.2 | 10622.8 | 10265.6 | 10215.0 |
| 67.5° | 11581.8 | 11605.9 | 11855.1 | 12507.5 | 13189.7 | 13602.0 | 12853.2 | 11918.3 | 11270.5 | 10844.4 | 10801.9 |
| 70°   | 11450.8 | 11545.0 | 11837.9 | 12599.4 | 13548.1 | 14136.1 | 12989.9 | 11831.0 | 10976.5 | 10473.4 | 10437.8 |
| 72.5° | 9986.5  | 10166.8 | 10557.3 | 11556.5 | 13073.7 | 13883.4 | 12244.5 | 10596.3 | 9629.3  | 9200.9  | 9136.6  |
| 75°   | 6800.4  | 7093.3  | 7682.5  | 9123.9  | 11169.5 | 12020.5 | 10308.1 | 8448.6  | 7539.0  | 6946.3  | 6902.7  |
| 77.5° | 3032.1  | 3098.7  | 3845.3  | 5504.9  | 7707.8  | 8632.4  | 7489.6  | 5526.7  | 4148.5  | 3308.9  | 3132.0  |
| 80°   | 845.3   | 855.7   | 1141.6  | 2050.1  | 3857.9  | 5071.9  | 4141.6  | 2153.5  | 1210.6  | 853.4   | 804.0   |
| 82.5° | 268.8   | 291.7   | 356.0   | 531.8   | 1296.7  | 2314.3  | 1331.1  | 574.3   | 408.9   | 326.2   | 294.0   |
| 85°   | 130.9   | 129.8   | 180.3   | 215.9   | 330.8   | 512.2   | 352.6   | 266.5   | 233.2   | 155.1   | 140.1   |
| 87.5° | 55.1    | 56.3    | 83.8    | 75.8    | 96.5    | 82.7    | 113.7   | 119.4   | 125.2   | 68.9    | 59.7    |
| 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)