

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: P654026

Luminaire Tested: **GLAN-SA8A-840-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654026  
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-SA8A-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 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: 32503.8 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

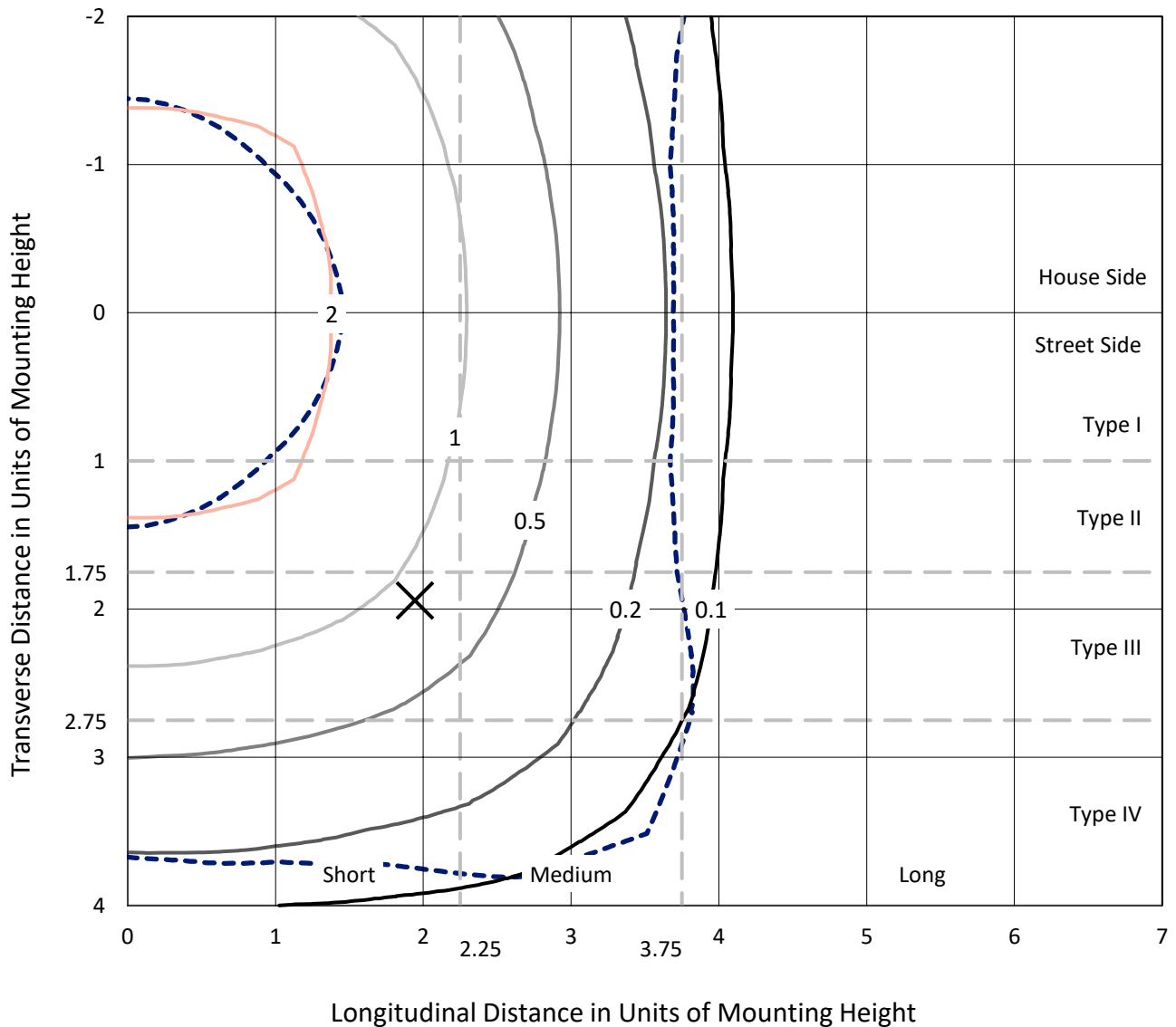
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P654026  
 CATALOG NUMBER: GLAN-SA8A-840-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

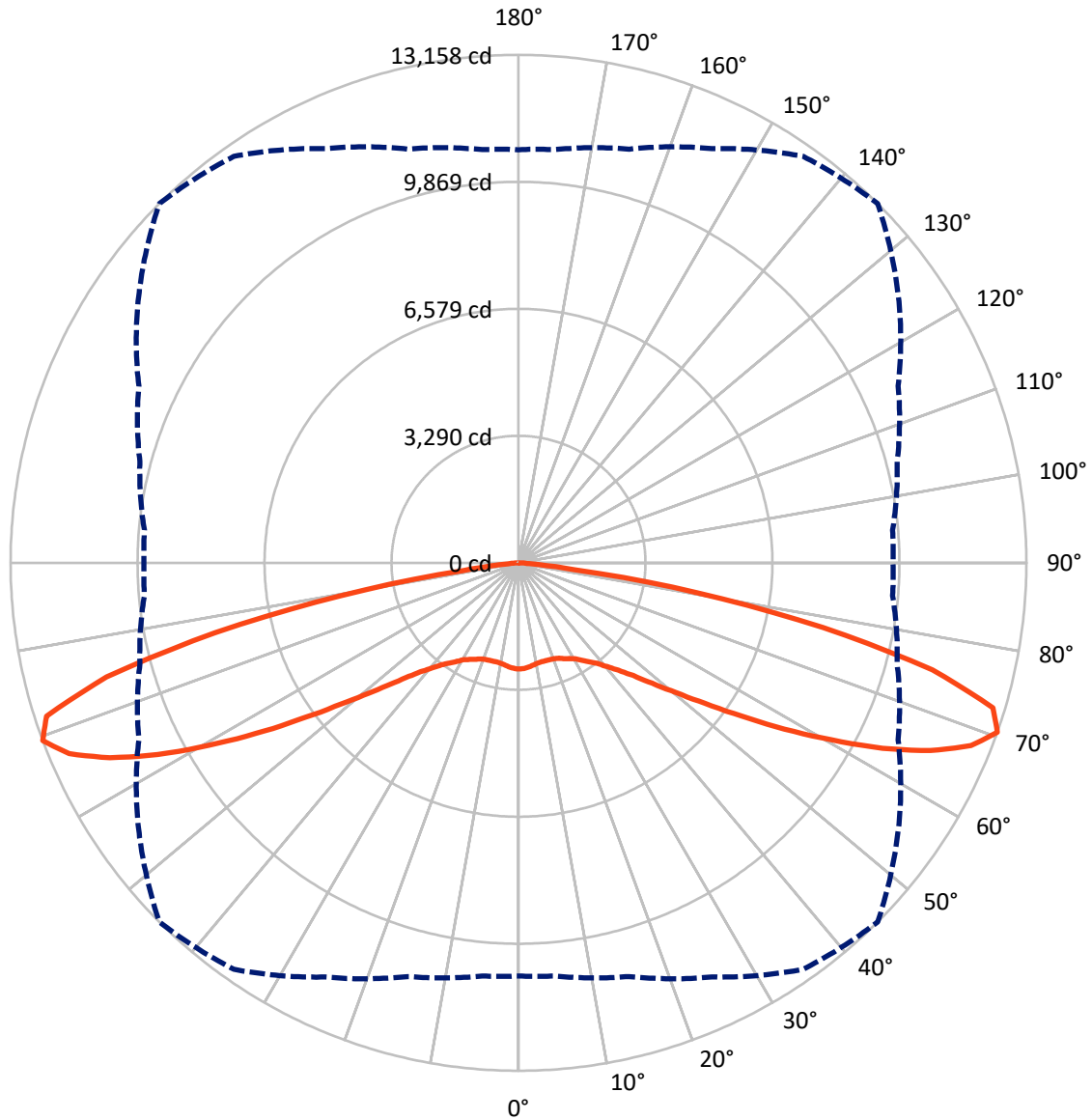
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P654026  
CATALOG NUMBER: GLAN-SA8A-840-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P654026  
 CATALOG NUMBER: GLAN-SA8A-840-U-5WQ

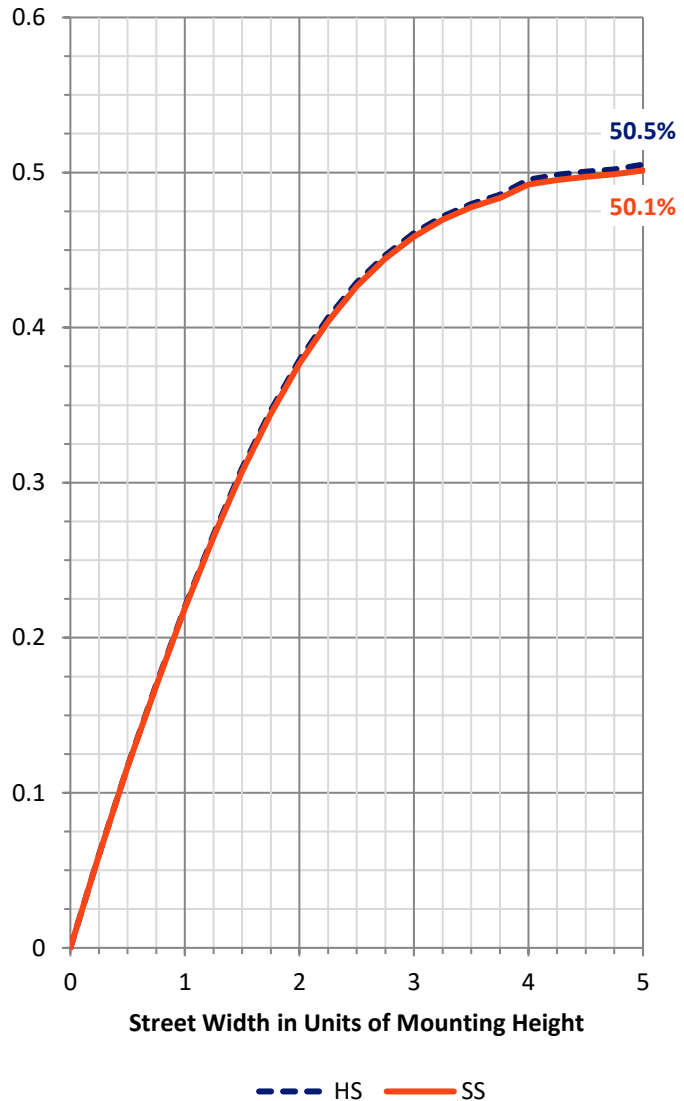
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16251.9  | 0.0    | 16251.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16251.9  | 0.0    | 16251.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 32503.8  | 0.0    | 32503.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 257.3   | 0.8       |
| 10°-20°   | 753.4   | 2.3       |
| 20°-30°   | 1283.6  | 3.9       |
| 30°-40°   | 1989.6  | 6.1       |
| 40°-50°   | 3348.8  | 10.3      |
| 50°-60°   | 6093.0  | 18.7      |
| 60°-70°   | 10315.2 | 31.7      |
| 70°-80°   | 7984.4  | 24.6      |
| 80°-90°   | 478.4   | 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°    | 32503.8 | 100.0     |
| 0°-180°   | 32503.8 | 100.0     |

**Coefficient of Utilization**

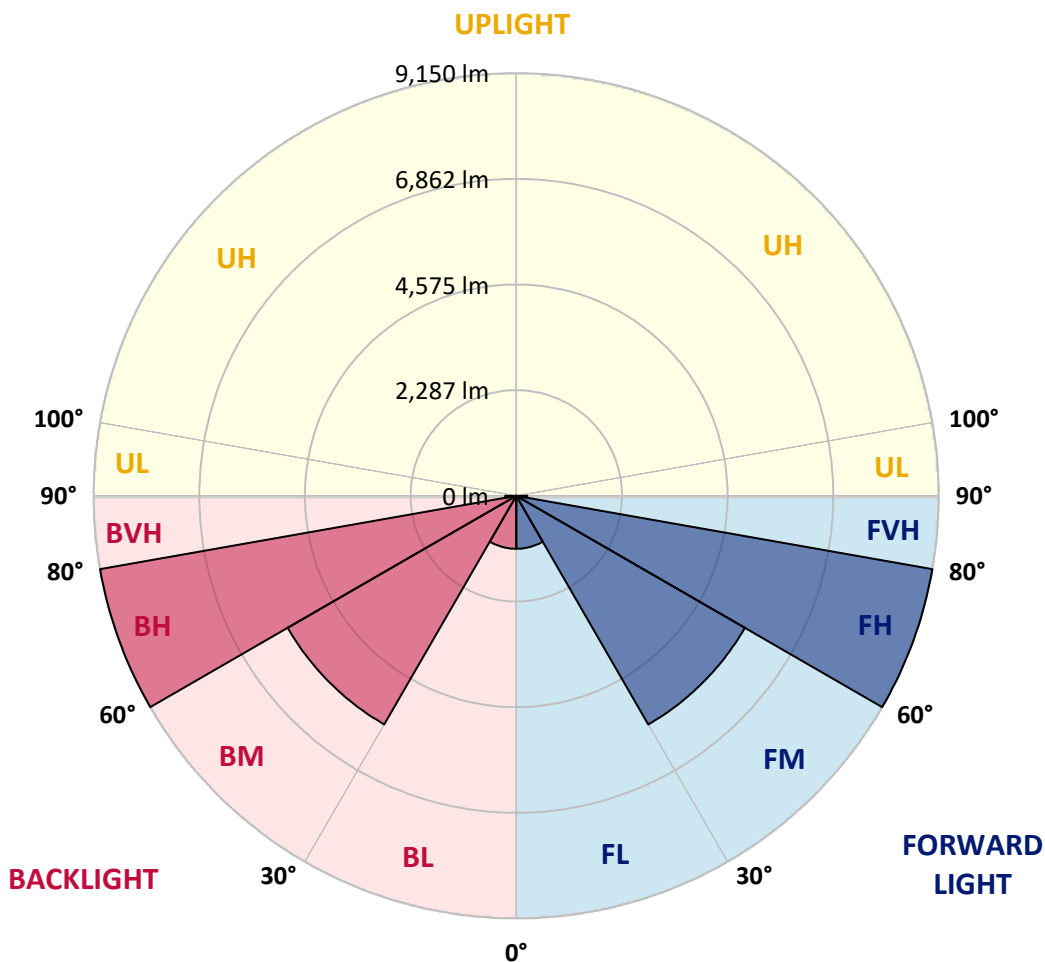


REPORT NUMBER: P654026  
 CATALOG NUMBER: GLAN-SA8A-840-U-5WQ

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1147.2 | 3.5       |                         |      |          |
| FM (30°-60°)   | 5715.7 | 17.6      |                         |      |          |
| FH (60°-80°)   | 9149.8 | 28.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 239.2  | 0.7       |                         |      | G3/500   |
| BL (0°-30°)    | 1147.2 | 3.5       | B3/2500                 |      |          |
| BM (30°-60°)   | 5715.7 | 17.6      | B4/8500                 |      |          |
| BH (60°-80°)   | 9149.8 | 28.1      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 239.2  | 0.7       |                         |      | 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





REPORT NUMBER: P654026  
 CATALOG NUMBER: GLAN-SA8A-840-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    | 90°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 2751.8  | 2751.8  | 2751.8  | 2751.8  | 2751.8  | 2751.8  | 2751.8  | 2751.8  | 2751.8  | 2751.8 | 2751.8 |
| 2.5°  | 2744.9  | 2746.7  | 2746.7  | 2743.3  | 2741.6  | 2741.6  | 2739.8  | 2739.8  | 2744.9  | 2746.7 | 2748.4 |
| 5°    | 2721.0  | 2721.0  | 2721.0  | 2719.2  | 2715.8  | 2715.8  | 2712.4  | 2712.4  | 2714.1  | 2719.2 | 2715.8 |
| 7.5°  | 2688.3  | 2691.8  | 2691.8  | 2684.9  | 2679.8  | 2679.8  | 2678.0  | 2679.8  | 2681.4  | 2686.6 | 2684.9 |
| 10°   | 2678.0  | 2679.8  | 2671.2  | 2659.2  | 2650.6  | 2645.4  | 2647.1  | 2650.6  | 2659.2  | 2662.6 | 2664.3 |
| 12.5° | 2684.9  | 2684.9  | 2669.4  | 2652.3  | 2636.8  | 2630.0  | 2628.2  | 2640.2  | 2655.7  | 2666.0 | 2669.4 |
| 15°   | 2693.5  | 2690.0  | 2671.2  | 2648.8  | 2633.4  | 2631.7  | 2630.0  | 2638.6  | 2660.8  | 2681.4 | 2683.2 |
| 17.5° | 2698.6  | 2696.9  | 2672.9  | 2645.4  | 2636.8  | 2636.8  | 2635.1  | 2642.0  | 2666.0  | 2691.8 | 2693.5 |
| 20°   | 2715.8  | 2710.6  | 2683.2  | 2654.0  | 2647.1  | 2650.6  | 2645.4  | 2654.0  | 2679.8  | 2710.6 | 2717.5 |
| 22.5° | 2750.2  | 2744.9  | 2717.5  | 2688.3  | 2684.9  | 2684.9  | 2683.2  | 2691.8  | 2719.2  | 2751.8 | 2757.0 |
| 25°   | 2791.4  | 2786.1  | 2760.4  | 2739.8  | 2743.3  | 2750.2  | 2746.7  | 2748.4  | 2770.8  | 2798.2 | 2806.8 |
| 27.5° | 2846.3  | 2837.7  | 2815.3  | 2798.2  | 2808.5  | 2808.5  | 2808.5  | 2806.8  | 2820.5  | 2846.3 | 2854.9 |
| 30°   | 2913.2  | 2909.8  | 2885.7  | 2884.0  | 2892.6  | 2884.0  | 2884.0  | 2885.7  | 2887.5  | 2911.5 | 2920.1 |
| 32.5° | 3000.8  | 2993.9  | 2981.8  | 2978.5  | 3002.5  | 3009.4  | 2985.3  | 2963.0  | 2975.0  | 2999.1 | 3004.2 |
| 35°   | 3145.0  | 3134.7  | 3117.5  | 3098.6  | 3117.5  | 3150.1  | 3098.6  | 3081.4  | 3112.4  | 3145.0 | 3148.4 |
| 37.5° | 3340.7  | 3335.5  | 3308.1  | 3273.7  | 3272.0  | 3306.3  | 3253.2  | 3251.4  | 3309.8  | 3349.3 | 3354.4 |
| 40°   | 3586.2  | 3591.3  | 3557.0  | 3524.4  | 3507.2  | 3534.6  | 3493.4  | 3508.9  | 3565.6  | 3610.2 | 3606.7 |
| 42.5° | 3931.2  | 3912.3  | 3859.1  | 3828.2  | 3809.3  | 3799.0  | 3788.7  | 3812.8  | 3876.3  | 3924.4 | 3962.1 |
| 45°   | 4334.6  | 4327.8  | 4260.8  | 4223.1  | 4181.9  | 4166.4  | 4163.0  | 4205.8  | 4283.1  | 4341.5 | 4346.6 |
| 47.5° | 4791.3  | 4775.8  | 4732.9  | 4693.5  | 4678.0  | 4659.1  | 4641.9  | 4674.5  | 4751.8  | 4792.9 | 4805.0 |
| 50°   | 5261.6  | 5265.1  | 5265.1  | 5258.2  | 5273.7  | 5277.1  | 5230.8  | 5242.8  | 5285.7  | 5282.2 | 5278.8 |
| 52.5° | 5798.9  | 5817.9  | 5907.1  | 5915.7  | 5989.5  | 6039.3  | 5955.2  | 5905.4  | 5889.9  | 5797.3 | 5804.1 |
| 55°   | 6430.7  | 6447.9  | 6581.8  | 6715.6  | 6914.8  | 6998.9  | 6822.1  | 6667.6  | 6557.7  | 6417.0 | 6423.8 |
| 57.5° | 7218.6  | 7227.2  | 7354.3  | 7611.8  | 7927.7  | 8125.1  | 7814.3  | 7508.8  | 7285.6  | 7151.7 | 7098.5 |
| 60°   | 8066.7  | 8075.3  | 8260.7  | 8574.8  | 9065.8  | 9306.2  | 8921.6  | 8422.0  | 8140.5  | 7936.3 | 7950.0 |
| 62.5° | 9084.7  | 9119.0  | 9285.6  | 9718.2  | 10313.9 | 10583.4 | 10073.5 | 9405.7  | 9024.6  | 8770.5 | 8780.9 |
| 65°   | 10174.8 | 10233.1 | 10415.1 | 10890.6 | 11440.0 | 11730.1 | 11105.2 | 10334.5 | 9860.6  | 9549.9 | 9582.5 |
| 67.5° | 10882.0 | 10933.6 | 11196.2 | 11721.5 | 12406.5 | 12646.8 | 11839.9 | 10942.2 | 10349.9 | 9979.1 | 9910.4 |
| 70°   | 10701.8 | 10744.7 | 11094.9 | 11839.9 | 12854.5 | 13158.4 | 12015.1 | 10852.9 | 10155.9 | 9728.4 | 9701.0 |
| 72.5° | 9447.0  | 9357.6  | 9869.2  | 10938.7 | 12342.9 | 12852.8 | 11464.0 | 9912.1  | 9034.9  | 8595.4 | 8544.0 |
| 75°   | 6260.7  | 6454.8  | 7210.1  | 8470.1  | 10442.6 | 11074.4 | 9785.1  | 7958.6  | 6854.7  | 6489.1 | 6432.4 |
| 77.5° | 2092.7  | 2242.0  | 2913.2  | 4801.6  | 7119.1  | 8068.4  | 7129.4  | 5204.9  | 3682.3  | 2966.5 | 2980.2 |
| 80°   | 554.5   | 547.7   | 709.0   | 1320.1  | 3076.3  | 4672.8  | 3581.0  | 1763.1  | 964.8   | 698.7  | 662.6  |
| 82.5° | 199.1   | 223.2   | 286.7   | 365.7   | 815.4   | 1452.3  | 1024.8  | 494.4   | 362.2   | 267.8  | 259.2  |
| 85°   | 87.5    | 85.9    | 123.6   | 145.9   | 204.3   | 271.2   | 240.4   | 209.4   | 183.7   | 121.9  | 113.3  |
| 87.5° | 18.9    | 18.9    | 29.2    | 22.3    | 36.1    | 36.1    | 44.7    | 53.2    | 54.9    | 36.1   | 29.2   |
| 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)