

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: P454511

Luminaire Tested: **GLAN-SA5C-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454511  
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-SA5C-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 27145 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 269  
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

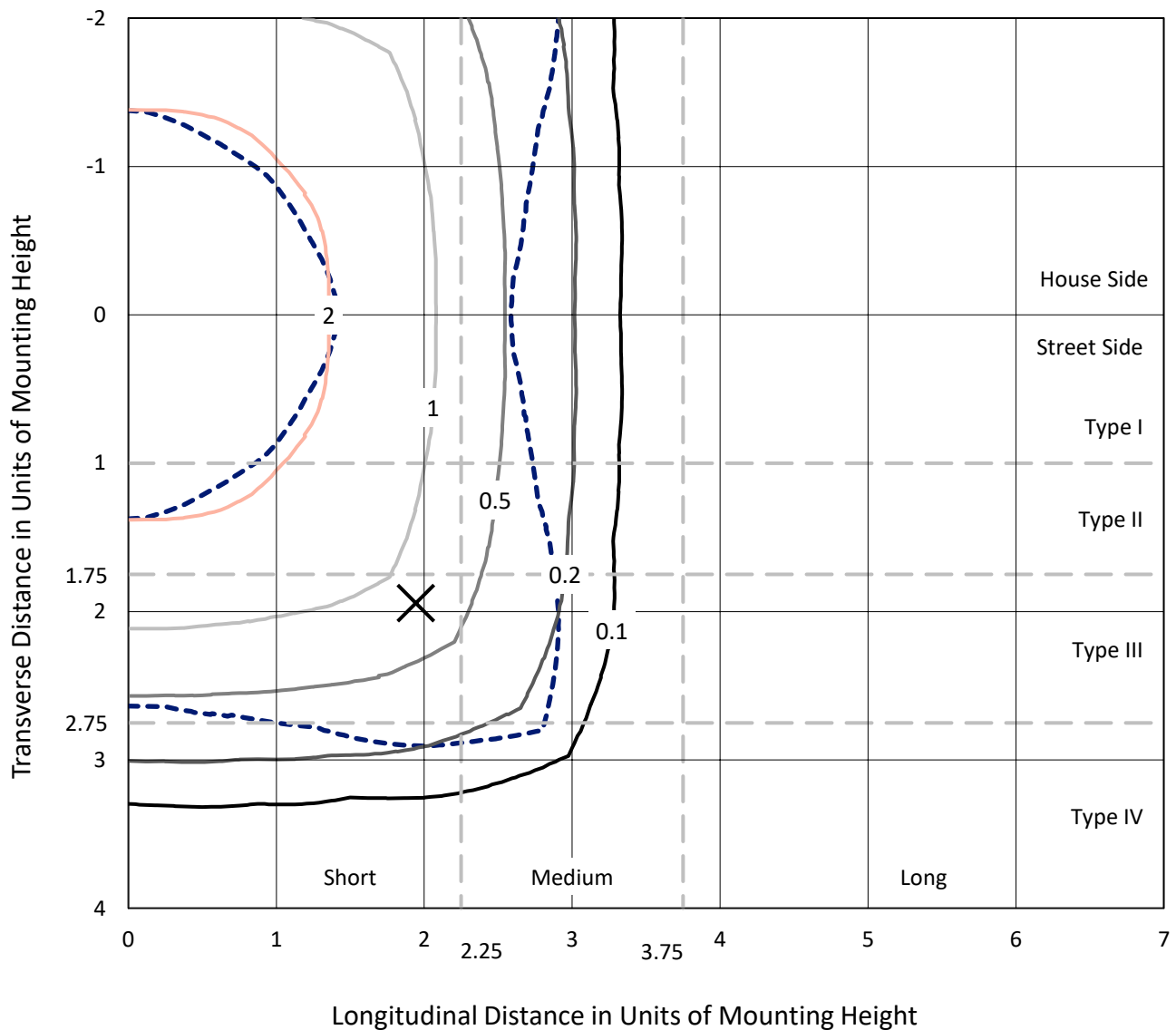


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

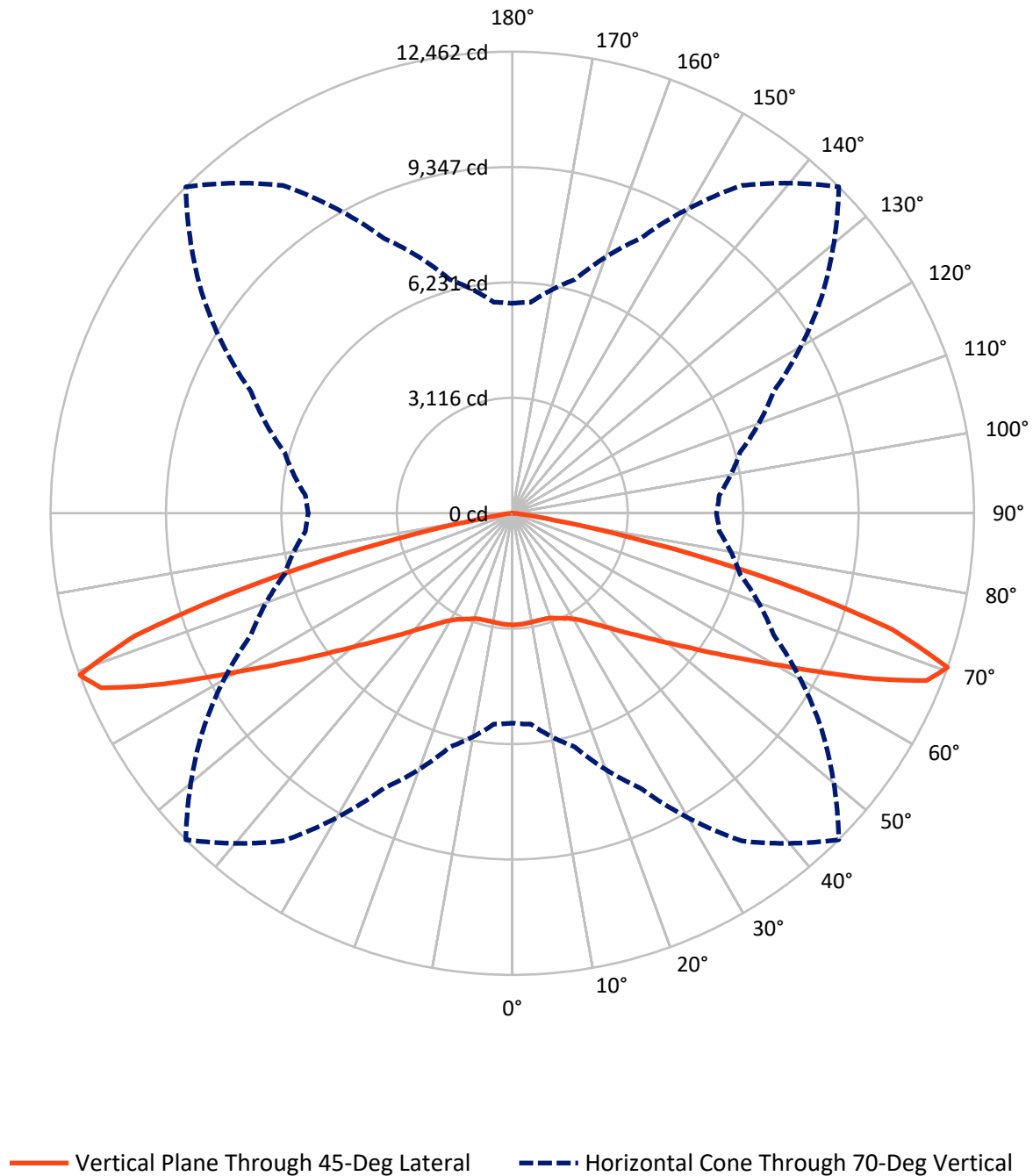


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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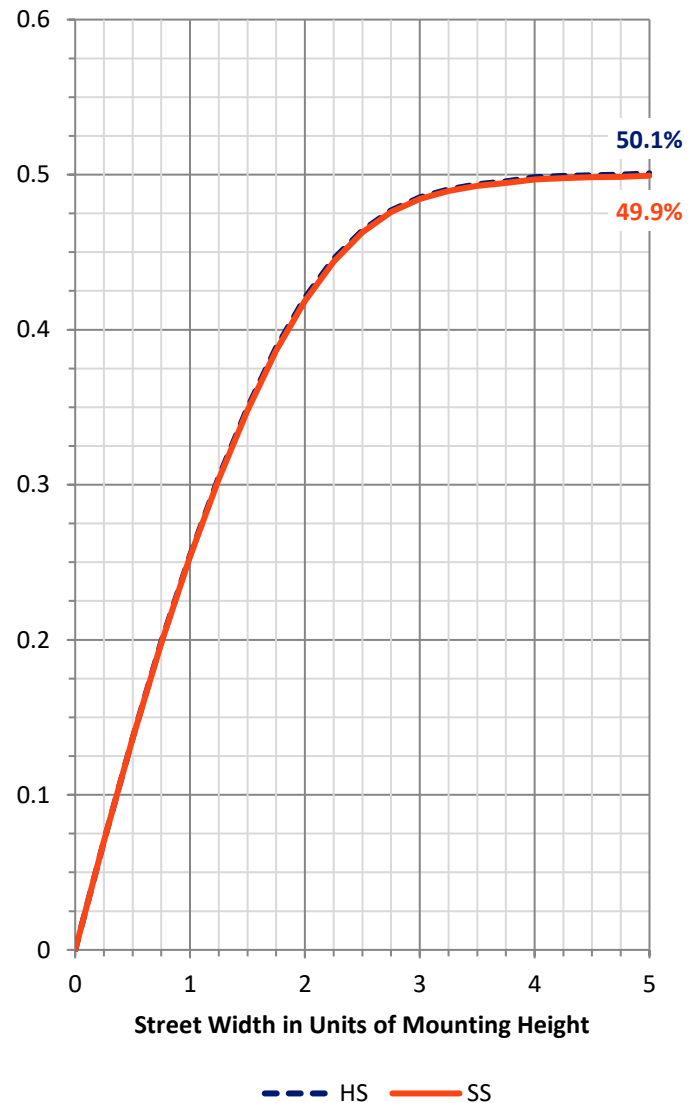
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13572.5  | 0.0    | 13572.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13572.5  | 0.0    | 13572.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 27145.0  | 0.0    | 27145.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 285.8   | 1.1       |
| 10°-20°   | 838.8   | 3.1       |
| 20°-30°   | 1434.6  | 5.3       |
| 30°-40°   | 2277.0  | 8.4       |
| 40°-50°   | 3673.4  | 13.5      |
| 50°-60°   | 5976.7  | 22.0      |
| 60°-70°   | 8664.1  | 31.9      |
| 70°-80°   | 3843.1  | 14.2      |
| 80°-90°   | 151.6   | 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°    | 27145.0 | 100.0     |
| 0°-180°   | 27145.0 | 100.0     |

**Coefficient of Utilization**



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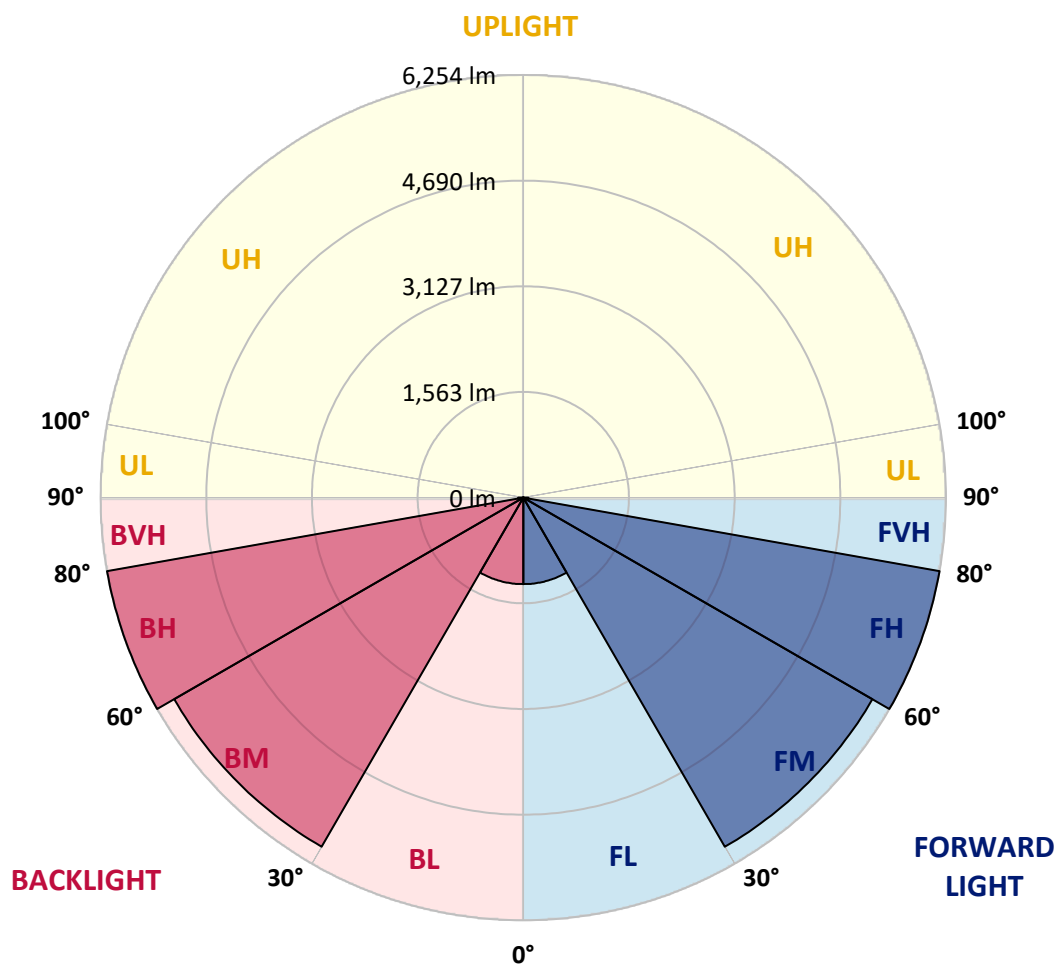
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1279.6 | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 5963.5 | 22.0      |                         |      |         |
| FH   | (60°-80°)   | 6253.6 | 23.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 75.8   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1279.6 | 4.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5963.5 | 22.0      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 6253.6 | 23.0      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 75.8   | 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°    | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3  | 3014.3  | 3014.3  | 3014.3 | 3014.3 | 3014.3 | 3014.3 |
| 2.5°  | 3014.3 | 3017.2 | 3012.9 | 3010.0 | 3008.6  | 3008.6  | 3007.2  | 3008.6 | 3017.2 | 3018.6 | 3014.3 |
| 5°    | 3005.7 | 3008.6 | 3007.2 | 3004.3 | 3002.9  | 3002.9  | 3001.4  | 3000.0 | 3007.2 | 3010.0 | 3008.6 |
| 7.5°  | 2994.3 | 2995.7 | 2994.3 | 2992.9 | 2994.3  | 2992.9  | 2988.6  | 2985.7 | 2991.4 | 2991.4 | 2990.0 |
| 10°   | 2974.3 | 2977.1 | 2975.7 | 2977.1 | 2980.0  | 2980.0  | 2974.3  | 2968.5 | 2970.0 | 2967.1 | 2967.1 |
| 12.5° | 2949.9 | 2954.2 | 2955.7 | 2961.4 | 2968.5  | 2977.1  | 2964.3  | 2951.4 | 2948.5 | 2947.1 | 2945.7 |
| 15°   | 2934.2 | 2938.5 | 2944.2 | 2949.9 | 2962.8  | 2981.4  | 2962.8  | 2942.8 | 2937.1 | 2931.3 | 2928.5 |
| 17.5° | 2929.9 | 2935.6 | 2944.2 | 2952.8 | 2970.0  | 2988.6  | 2972.8  | 2952.8 | 2938.5 | 2929.9 | 2927.1 |
| 20°   | 2941.4 | 2945.7 | 2958.5 | 2974.3 | 2998.6  | 3017.2  | 3001.4  | 2980.0 | 2958.5 | 2945.7 | 2941.4 |
| 22.5° | 2964.3 | 2971.4 | 2987.1 | 3015.8 | 3050.1  | 3077.3  | 3055.8  | 3020.0 | 2985.7 | 2968.5 | 2962.8 |
| 25°   | 3014.3 | 3020.0 | 3038.6 | 3077.3 | 3117.3  | 3143.1  | 3120.2  | 3078.7 | 3031.5 | 3008.6 | 3001.4 |
| 27.5° | 3090.1 | 3098.7 | 3118.8 | 3164.5 | 3197.4  | 3211.8  | 3196.0  | 3167.4 | 3133.1 | 3108.7 | 3103.0 |
| 30°   | 3197.4 | 3207.5 | 3237.5 | 3286.1 | 3307.6  | 3316.2  | 3309.0  | 3290.4 | 3266.1 | 3240.4 | 3234.6 |
| 32.5° | 3341.9 | 3347.7 | 3382.0 | 3427.8 | 3447.8  | 3450.7  | 3442.1  | 3433.5 | 3393.4 | 3350.5 | 3347.7 |
| 35°   | 3503.6 | 3513.6 | 3555.1 | 3609.5 | 3628.1  | 3629.5  | 3612.3  | 3599.4 | 3552.2 | 3517.9 | 3517.9 |
| 37.5° | 3718.2 | 3722.5 | 3762.5 | 3824.1 | 3844.1  | 3838.4  | 3829.8  | 3818.3 | 3768.3 | 3723.9 | 3725.3 |
| 40°   | 3970.0 | 3978.6 | 4012.9 | 4084.4 | 4084.4  | 4077.3  | 4083.0  | 4074.4 | 4024.3 | 3981.4 | 3982.9 |
| 42.5° | 4269.0 | 4273.3 | 4314.8 | 4390.6 | 4384.9  | 4370.6  | 4376.3  | 4364.8 | 4333.4 | 4284.7 | 4267.6 |
| 45°   | 4588.0 | 4605.2 | 4676.7 | 4749.7 | 4738.2  | 4692.4  | 4715.3  | 4712.5 | 4683.9 | 4610.9 | 4615.2 |
| 47.5° | 4972.8 | 5001.5 | 5070.1 | 5157.4 | 5144.5  | 5073.0  | 5098.7  | 5115.9 | 5075.9 | 4995.7 | 4981.4 |
| 50°   | 5406.3 | 5424.9 | 5526.5 | 5608.0 | 5596.6  | 5520.8  | 5579.4  | 5582.3 | 5482.2 | 5369.1 | 5369.1 |
| 52.5° | 5868.4 | 5887.0 | 6024.4 | 6151.7 | 6158.8  | 6048.7  | 6095.9  | 6093.0 | 5929.9 | 5781.2 | 5752.5 |
| 55°   | 6386.3 | 6394.9 | 6572.3 | 6759.7 | 6799.8  | 6692.5  | 6698.2  | 6641.0 | 6429.2 | 6256.1 | 6240.4 |
| 57.5° | 6921.4 | 6952.8 | 7148.8 | 7392.0 | 7510.8  | 7445.0  | 7414.9  | 7261.8 | 7057.3 | 6858.4 | 6848.4 |
| 60°   | 7513.6 | 7515.1 | 7769.7 | 8057.3 | 8297.6  | 8342.0  | 8218.9  | 8014.4 | 7749.7 | 7486.5 | 7475.0 |
| 62.5° | 7924.2 | 7985.7 | 8307.6 | 8794.0 | 9224.7  | 9473.6  | 9148.8  | 8719.7 | 8198.9 | 7774.0 | 7731.1 |
| 65°   | 8008.6 | 8050.1 | 8540.8 | 9364.9 | 10244.7 | 10781.2 | 10030.1 | 9117.4 | 8228.9 | 7662.4 | 7633.8 |
| 67.5° | 7326.2 | 7370.6 | 8031.5 | 9296.2 | 10960.0 | 12060.2 | 10602.4 | 8925.7 | 7719.6 | 7018.6 | 6962.8 |
| 70°   | 5666.7 | 5716.8 | 6533.7 | 8183.2 | 10801.2 | 12462.2 | 10194.6 | 7785.5 | 6366.3 | 5609.5 | 5507.9 |
| 72.5° | 3012.9 | 3197.4 | 3895.6 | 5616.6 | 8766.9  | 10729.7 | 8359.1  | 5681.0 | 4105.9 | 3356.2 | 3221.8 |
| 75°   | 1100.1 | 1123.0 | 1512.2 | 2490.7 | 5100.2  | 7357.7  | 5296.2  | 2709.6 | 1557.9 | 1203.2 | 1141.6 |
| 77.5° | 454.9  | 453.5  | 497.9  | 752.5  | 1852.7  | 3768.3  | 2067.3  | 795.4  | 496.4  | 459.2  | 453.5  |
| 80°   | 269.0  | 269.0  | 296.1  | 313.3  | 487.8   | 1137.3  | 545.1   | 354.8  | 297.6  | 271.8  | 276.1  |
| 82.5° | 120.2  | 127.3  | 187.4  | 197.4  | 236.1   | 311.9   | 263.2   | 226.0  | 194.6  | 134.5  | 121.6  |
| 85°   | 65.8   | 57.2   | 98.7   | 103.0  | 113.0   | 115.9   | 124.5   | 123.0  | 113.0  | 65.8   | 67.2   |
| 87.5° | 12.9   | 15.7   | 28.6   | 21.5   | 24.3    | 21.5    | 28.6    | 40.1   | 41.5   | 22.9   | 18.6   |
| 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)