

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: P316630

Luminaire Tested: **GAN-SA6A-830-U-5MQ**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P316630  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6A-830-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 23268 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

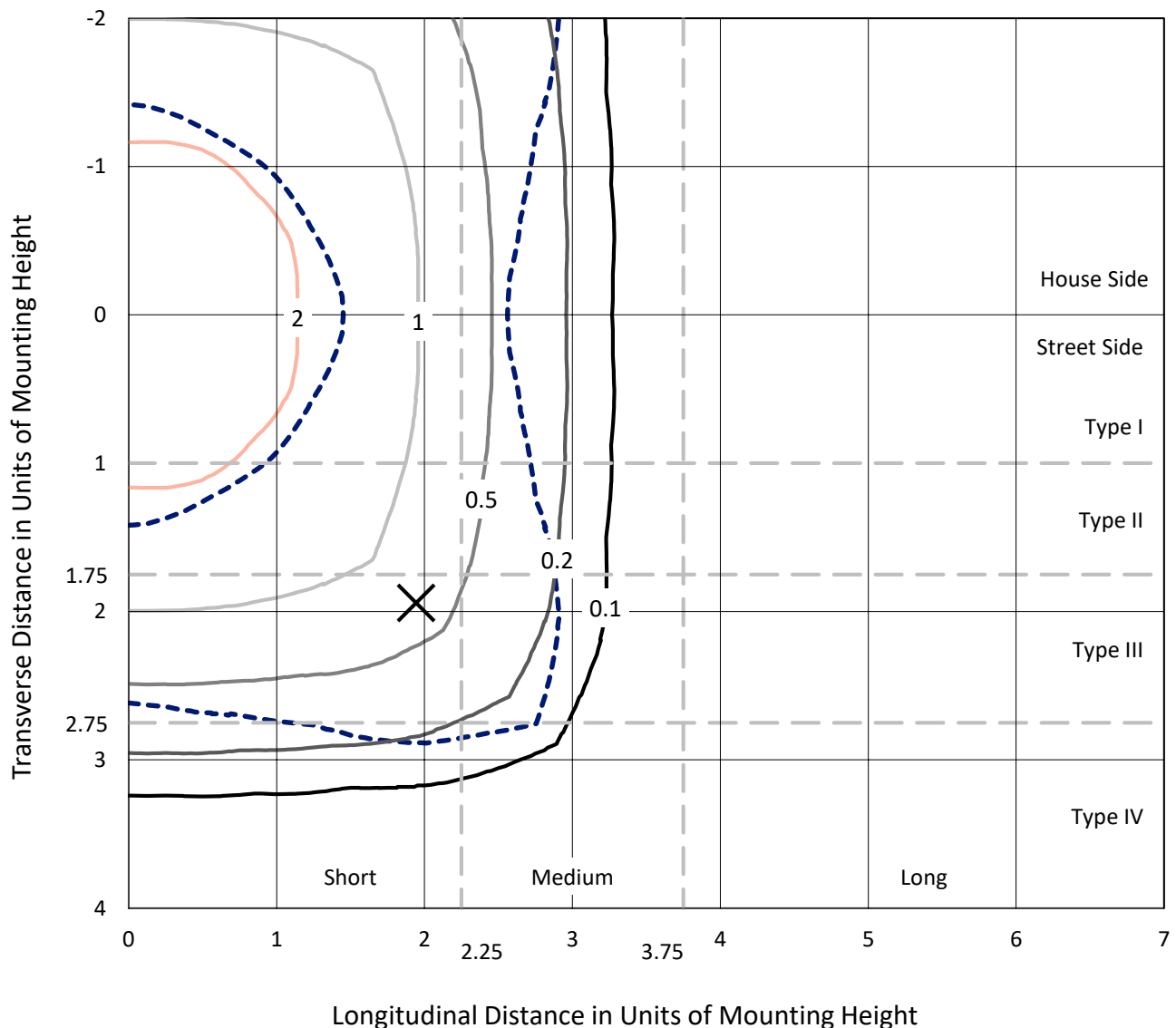
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P316630  
 CATALOG NUMBER: GAN-SA6A-830-U-5MQ

## Iso-Footcandle Lines of Horizontal Illumination

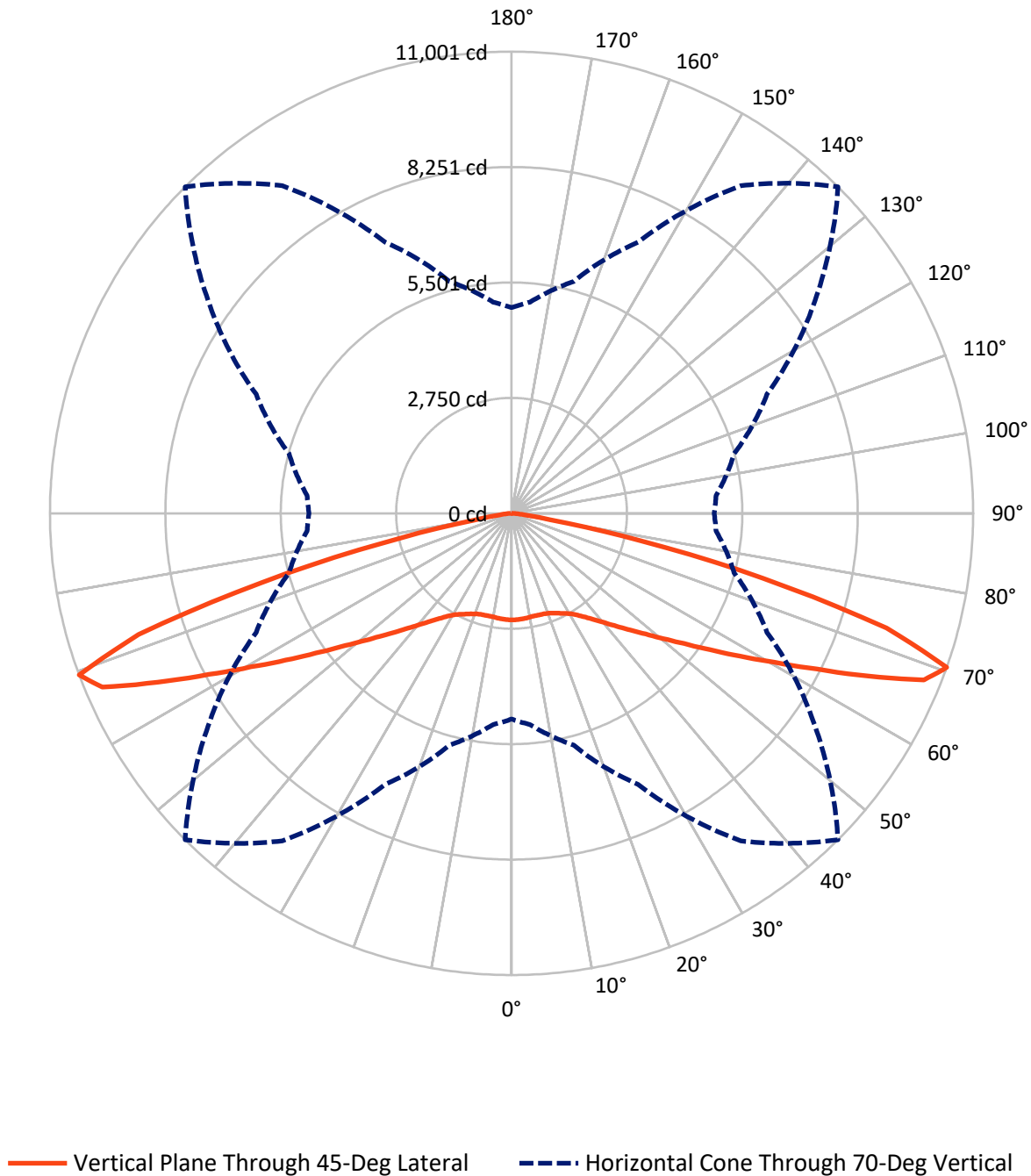
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P316630  
CATALOG NUMBER: GAN-SA6A-830-U-5MQ

## Luminous Intensity Polar Plot



REPORT NUMBER: P316630

CATALOG NUMBER: GAN-SA6A-830-U-5MQ

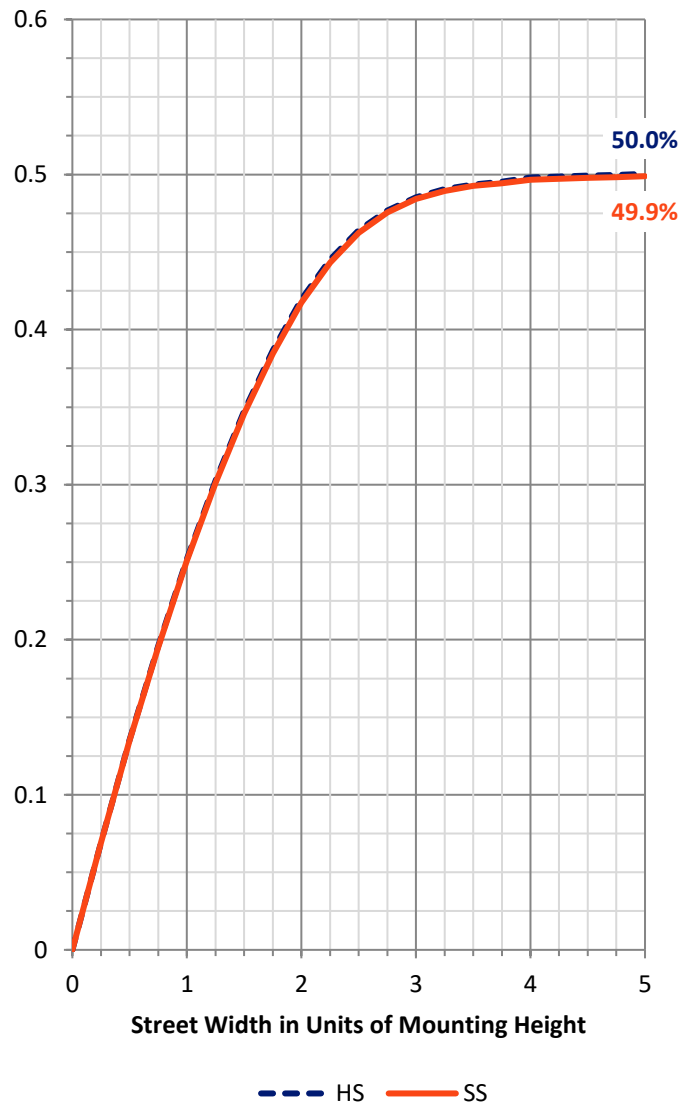
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11634.0  | 0.0    | 11634.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11634.0  | 0.0    | 11634.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23268.0  | 0.0    | 23268.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 240.7   | 1.0       |
| 10°-20°   | 706.6   | 3.0       |
| 20°-30°   | 1202.8  | 5.2       |
| 30°-40°   | 1907.7  | 8.2       |
| 40°-50°   | 3104.4  | 13.3      |
| 50°-60°   | 5118.5  | 22.0      |
| 60°-70°   | 7514.1  | 32.3      |
| 70°-80°   | 3322.7  | 14.3      |
| 80°-90°   | 150.5   | 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°    | 23268.0 | 100.0     |
| 0°-180°   | 23268.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P316630

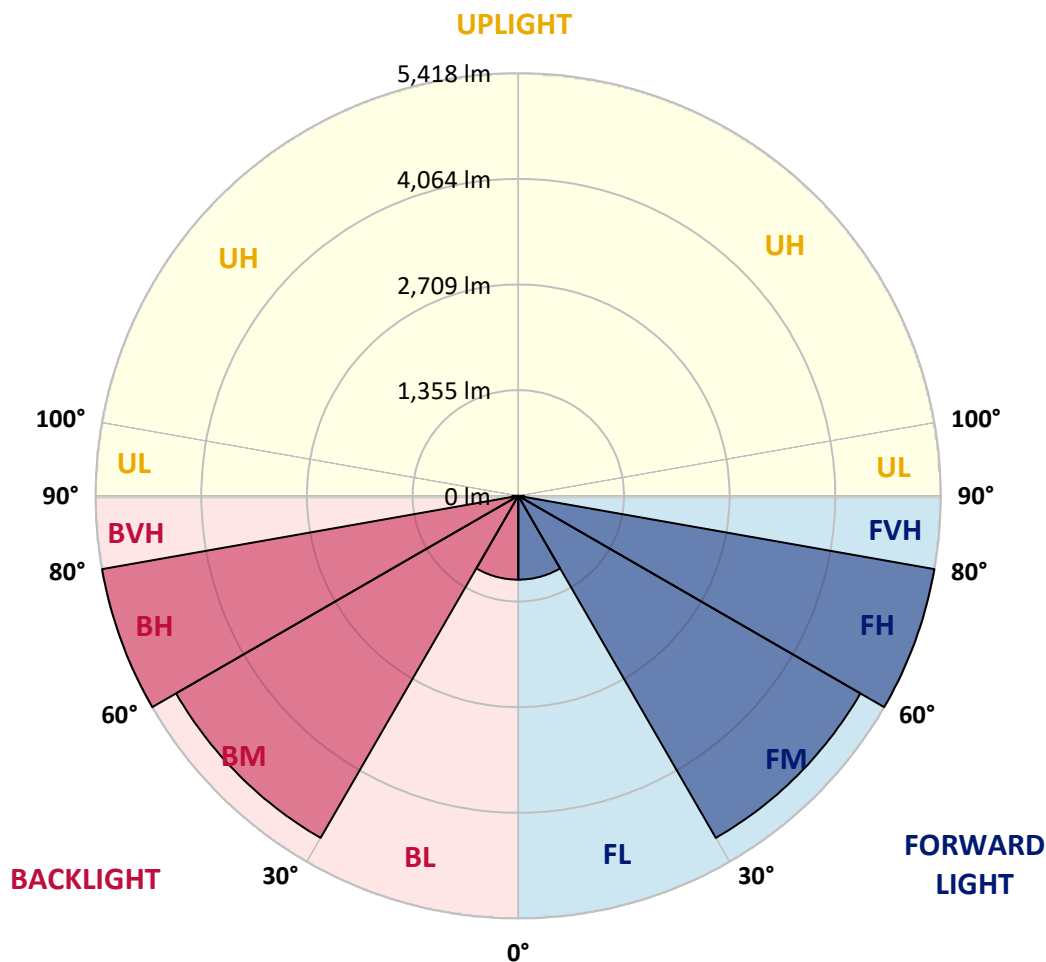
CATALOG NUMBER: GAN-SA6A-830-U-5MQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1075.0 | 4.6       |                         |      |         |
| FM   | (30°-60°)   | 5065.3 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 5418.4 | 23.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 75.2   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1075.0 | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5065.3 | 21.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 5418.4 | 23.3      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 75.2   | 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





REPORT NUMBER: P316630

CATALOG NUMBER: GAN-SA6A-830-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0°    | 2541.2 | 2541.2 | 2541.2 | 2541.2 | 2541.2 | 2541.2  | 2541.2 | 2541.2 | 2541.2 | 2541.2 | 2541.2 |
| 2.5°  | 2537.4 | 2535.1 | 2540.5 | 2539.7 | 2535.1 | 2535.8  | 2535.8 | 2538.1 | 2538.1 | 2536.6 | 2536.6 |
| 5°    | 2528.1 | 2526.6 | 2532.8 | 2532.8 | 2528.1 | 2529.7  | 2531.2 | 2533.5 | 2532.8 | 2531.2 | 2530.4 |
| 7.5°  | 2516.6 | 2515.8 | 2522.0 | 2522.0 | 2518.9 | 2520.4  | 2518.9 | 2519.7 | 2518.1 | 2516.6 | 2514.3 |
| 10°   | 2497.3 | 2498.9 | 2504.3 | 2505.8 | 2505.8 | 2506.6  | 2505.0 | 2501.2 | 2498.9 | 2496.6 | 2494.3 |
| 12.5° | 2479.6 | 2478.9 | 2486.6 | 2490.4 | 2496.6 | 2503.5  | 2498.9 | 2488.1 | 2483.5 | 2478.9 | 2477.3 |
| 15°   | 2468.1 | 2468.8 | 2476.5 | 2483.5 | 2494.3 | 2508.9  | 2503.5 | 2486.6 | 2477.3 | 2471.9 | 2470.4 |
| 17.5° | 2465.8 | 2467.3 | 2477.3 | 2489.6 | 2501.2 | 2517.4  | 2514.3 | 2497.3 | 2481.9 | 2471.9 | 2469.6 |
| 20°   | 2471.2 | 2471.9 | 2487.3 | 2505.0 | 2525.1 | 2540.5  | 2533.5 | 2515.0 | 2494.3 | 2478.9 | 2475.0 |
| 22.5° | 2481.2 | 2484.2 | 2503.5 | 2531.2 | 2562.0 | 2582.8  | 2574.3 | 2542.8 | 2510.4 | 2491.2 | 2485.8 |
| 25°   | 2512.7 | 2513.5 | 2539.7 | 2577.4 | 2614.4 | 2638.3  | 2628.2 | 2583.6 | 2542.0 | 2520.4 | 2513.5 |
| 27.5° | 2578.2 | 2580.5 | 2606.7 | 2650.6 | 2682.2 | 2697.6  | 2691.4 | 2655.2 | 2619.8 | 2596.7 | 2599.0 |
| 30°   | 2672.9 | 2676.0 | 2705.3 | 2753.8 | 2773.0 | 2776.9  | 2775.3 | 2758.4 | 2726.0 | 2695.2 | 2697.6 |
| 32.5° | 2788.4 | 2790.0 | 2829.2 | 2873.1 | 2888.5 | 2891.6  | 2888.5 | 2873.1 | 2834.6 | 2793.0 | 2795.4 |
| 35°   | 2937.0 | 2941.7 | 2979.4 | 3021.8 | 3034.1 | 3040.2  | 3034.8 | 3014.8 | 2974.8 | 2934.0 | 2932.4 |
| 37.5° | 3120.3 | 3121.1 | 3160.4 | 3204.3 | 3219.7 | 3221.2  | 3215.0 | 3201.9 | 3151.9 | 3114.9 | 3112.6 |
| 40°   | 3332.9 | 3335.9 | 3382.1 | 3429.1 | 3435.3 | 3428.3  | 3436.8 | 3429.1 | 3377.5 | 3335.2 | 3342.1 |
| 42.5° | 3591.6 | 3598.5 | 3654.0 | 3700.2 | 3682.5 | 3678.6  | 3684.0 | 3686.3 | 3644.7 | 3593.1 | 3588.5 |
| 45°   | 3892.7 | 3898.9 | 3968.2 | 4005.1 | 3993.6 | 3968.2  | 3978.9 | 3997.4 | 3939.7 | 3875.8 | 3881.9 |
| 47.5° | 4236.1 | 4251.6 | 4325.5 | 4360.1 | 4331.6 | 4297.0  | 4317.8 | 4345.5 | 4277.7 | 4198.4 | 4194.6 |
| 50°   | 4618.1 | 4637.4 | 4735.9 | 4784.4 | 4755.9 | 4692.0  | 4726.7 | 4745.2 | 4647.4 | 4544.9 | 4536.5 |
| 52.5° | 5025.5 | 5044.7 | 5168.7 | 5268.8 | 5250.3 | 5151.0  | 5199.5 | 5180.3 | 5067.8 | 4930.0 | 4919.2 |
| 55°   | 5486.7 | 5494.4 | 5628.4 | 5790.1 | 5808.6 | 5735.5  | 5732.4 | 5700.8 | 5534.5 | 5375.1 | 5367.4 |
| 57.5° | 5961.1 | 5966.5 | 6139.8 | 6330.7 | 6417.8 | 6417.8  | 6331.5 | 6264.5 | 6043.5 | 5858.7 | 5839.4 |
| 60°   | 6473.2 | 6492.5 | 6684.2 | 6943.7 | 7147.0 | 7207.1  | 7054.6 | 6872.1 | 6631.8 | 6406.2 | 6383.9 |
| 62.5° | 6929.1 | 6951.4 | 7244.8 | 7631.4 | 7957.9 | 8176.6  | 7803.9 | 7506.6 | 7069.2 | 6707.3 | 6664.9 |
| 65°   | 6986.8 | 7046.9 | 7474.3 | 8174.3 | 8905.1 | 9341.7  | 8627.1 | 7894.7 | 7097.7 | 6594.9 | 6551.7 |
| 67.5° | 6380.8 | 6482.4 | 7060.0 | 8149.6 | 9659.7 | 10596.9 | 9153.0 | 7673.0 | 6586.4 | 6030.4 | 5982.7 |
| 70°   | 4903.0 | 5050.9 | 5717.0 | 7128.5 | 9529.6 | 11001.2 | 8823.5 | 6717.3 | 5491.4 | 4893.0 | 4826.0 |
| 72.5° | 2689.9 | 2750.7 | 3349.8 | 4881.5 | 7639.9 | 9348.6  | 7359.5 | 4966.9 | 3641.7 | 2963.2 | 2850.8 |
| 75°   | 853.2  | 874.8  | 1179.7 | 1997.6 | 4321.6 | 6192.1  | 4675.1 | 2438.0 | 1342.2 | 989.5  | 978.0  |
| 77.5° | 378.9  | 381.2  | 426.6  | 582.9  | 1488.5 | 3137.3  | 1788.1 | 663.8  | 457.4  | 399.7  | 412.8  |
| 80°   | 239.5  | 239.5  | 264.1  | 288.8  | 405.1  | 911.0   | 483.6  | 315.7  | 269.5  | 250.3  | 255.7  |
| 82.5° | 114.7  | 127.1  | 171.7  | 184.8  | 222.5  | 306.5   | 248.0  | 206.4  | 180.2  | 134.0  | 124.8  |
| 85°   | 75.5   | 63.1   | 108.6  | 122.4  | 129.4  | 147.1   | 144.0  | 136.3  | 117.8  | 67.0   | 74.7   |
| 87.5° | 33.9   | 32.3   | 56.2   | 51.6   | 48.5   | 37.0    | 55.4   | 68.5   | 66.2   | 33.1   | 33.1   |
| 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)