

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: P316672

Luminaire Tested: **GAN-SA8A-722-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316672  
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-SA8A-722-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 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: 28843 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

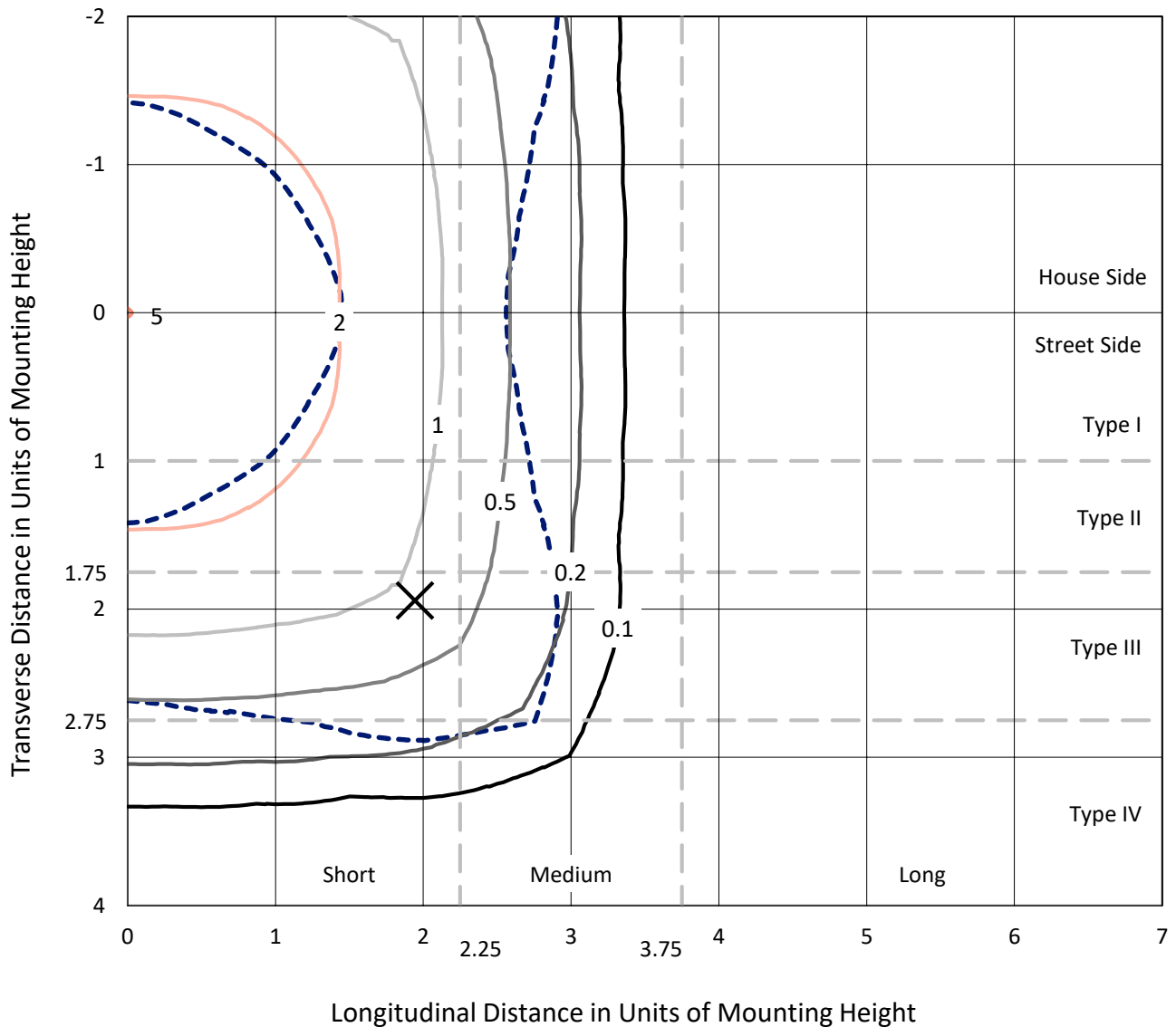
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

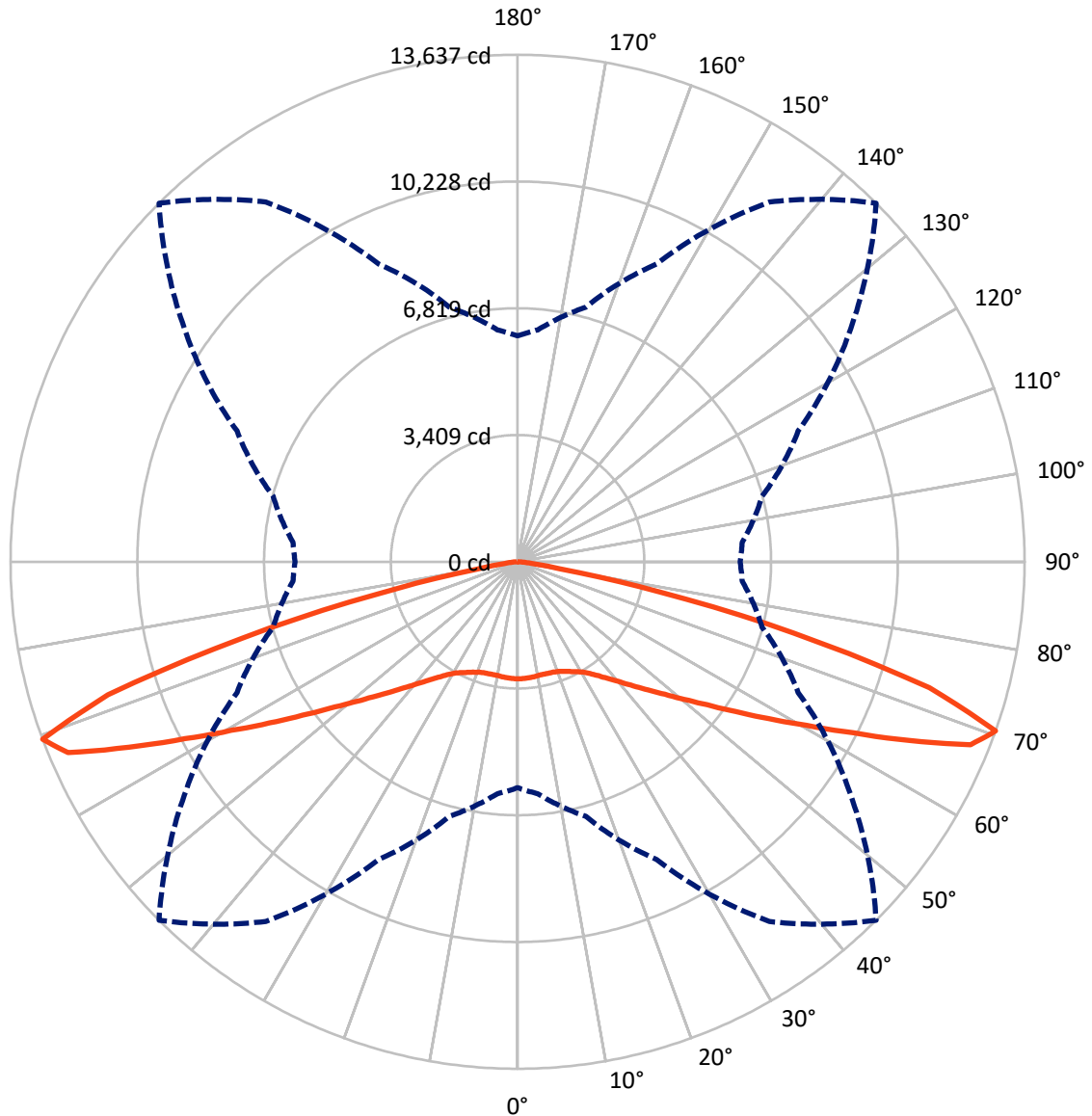
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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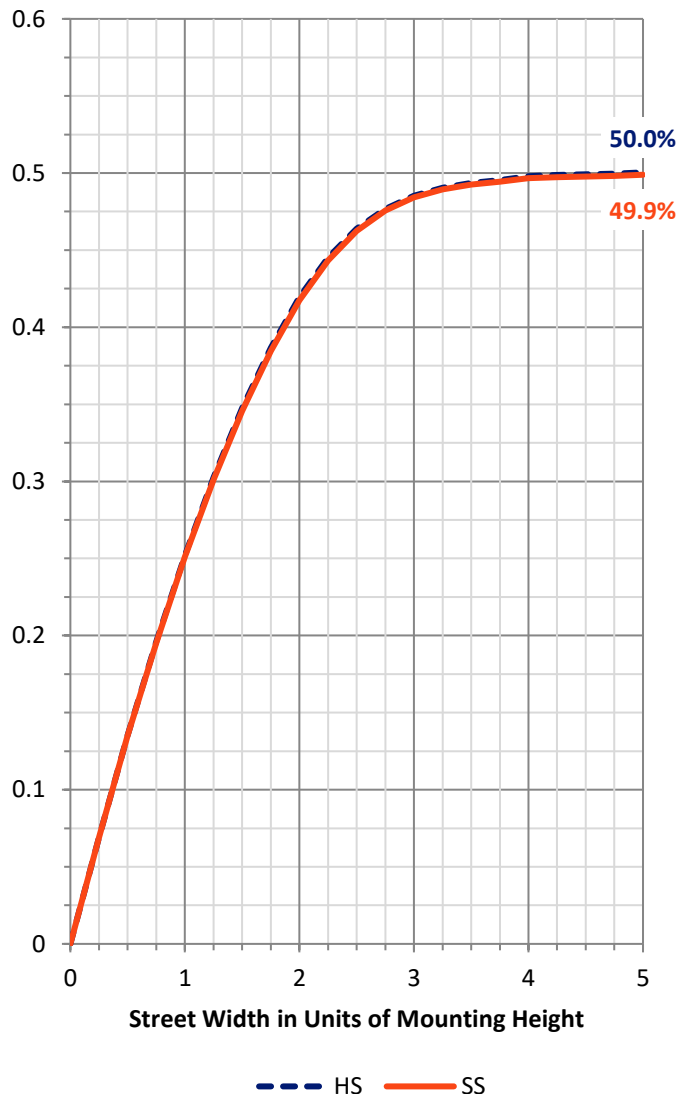
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14421.5  | 0.0    | 14421.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14421.5  | 0.0    | 14421.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 28843.0  | 0.0    | 28843.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 298.4   | 1.0       |
| 10°-20°   | 875.9   | 3.0       |
| 20°-30°   | 1491.0  | 5.2       |
| 30°-40°   | 2364.7  | 8.2       |
| 40°-50°   | 3848.2  | 13.3      |
| 50°-60°   | 6344.9  | 22.0      |
| 60°-70°   | 9314.5  | 32.3      |
| 70°-80°   | 4118.9  | 14.3      |
| 80°-90°   | 186.5   | 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°    | 28843.0 | 100.0     |
| 0°-180°   | 28843.0 | 100.0     |

**Coefficient of Utilization**



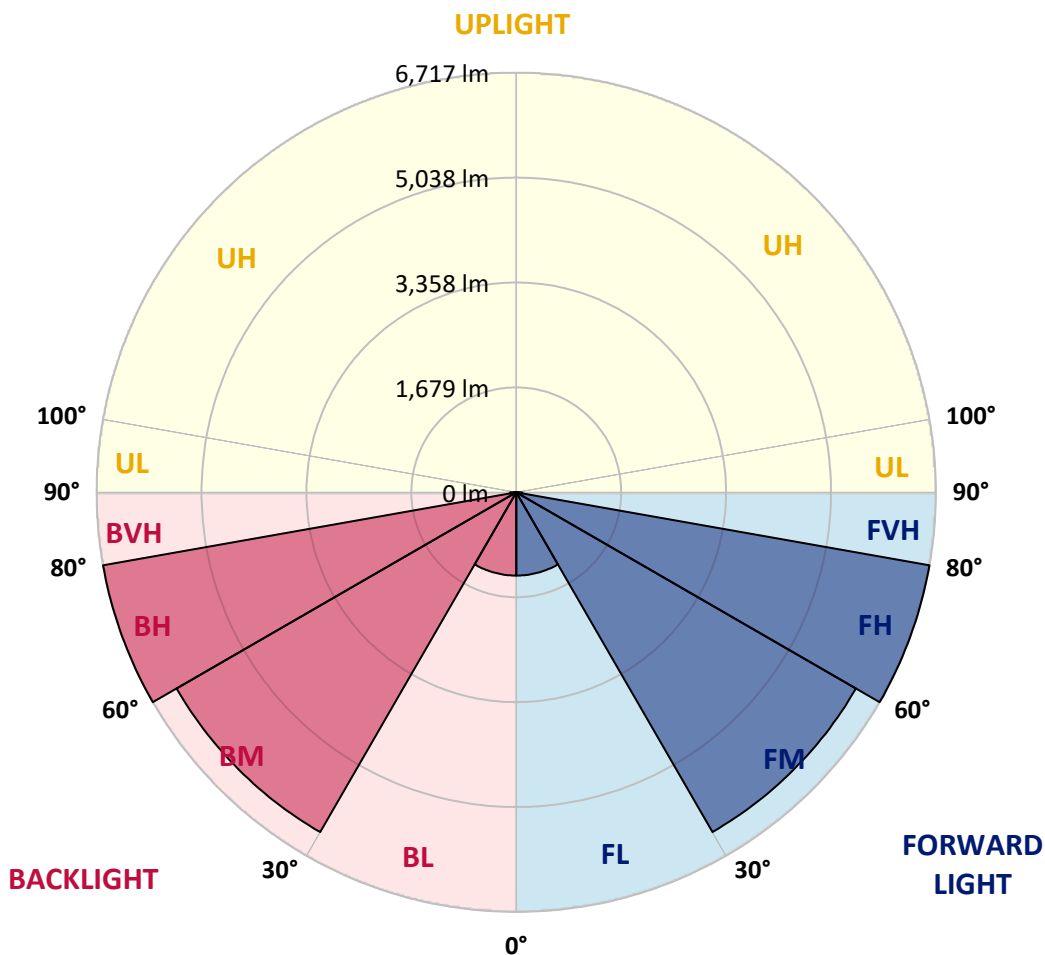
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1332.6 | 4.6       |                         |      |         |
| FM (30°-60°)   | 6278.9 | 21.8      |                         |      |         |
| FH (60°-80°)   | 6716.7 | 23.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 93.3   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1332.6 | 4.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 6278.9 | 21.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 6716.7 | 23.3      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 93.3   | 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°    | 3150.1 | 3150.1 | 3150.1 | 3150.1  | 3150.1  | 3150.1  | 3150.1  | 3150.1 | 3150.1 | 3150.1 | 3150.1 |
| 2.5°  | 3145.3 | 3142.5 | 3149.1 | 3148.2  | 3142.5  | 3143.4  | 3143.4  | 3146.3 | 3146.3 | 3144.4 | 3144.4 |
| 5°    | 3133.9 | 3132.0 | 3139.6 | 3139.6  | 3133.9  | 3135.8  | 3137.7  | 3140.6 | 3139.6 | 3137.7 | 3136.7 |
| 7.5°  | 3119.6 | 3118.6 | 3126.2 | 3126.2  | 3122.4  | 3124.3  | 3122.4  | 3123.4 | 3121.5 | 3119.6 | 3116.7 |
| 10°   | 3095.7 | 3097.6 | 3104.3 | 3106.2  | 3106.2  | 3107.1  | 3105.2  | 3100.5 | 3097.6 | 3094.7 | 3091.9 |
| 12.5° | 3073.7 | 3072.8 | 3082.3 | 3087.1  | 3094.7  | 3103.3  | 3097.6  | 3084.2 | 3078.5 | 3072.8 | 3070.9 |
| 15°   | 3059.4 | 3060.4 | 3069.9 | 3078.5  | 3091.9  | 3110.0  | 3103.3  | 3082.3 | 3070.9 | 3064.2 | 3062.3 |
| 17.5° | 3056.6 | 3058.5 | 3070.9 | 3086.1  | 3100.5  | 3120.5  | 3116.7  | 3095.7 | 3076.6 | 3064.2 | 3061.3 |
| 20°   | 3063.2 | 3064.2 | 3083.3 | 3105.2  | 3130.1  | 3149.1  | 3140.6  | 3117.6 | 3091.9 | 3072.8 | 3068.0 |
| 22.5° | 3075.6 | 3079.5 | 3103.3 | 3137.7  | 3175.9  | 3201.7  | 3191.2  | 3152.0 | 3111.9 | 3088.1 | 3081.4 |
| 25°   | 3114.8 | 3115.7 | 3148.2 | 3195.0  | 3240.8  | 3270.4  | 3258.0  | 3202.6 | 3151.1 | 3124.3 | 3115.7 |
| 27.5° | 3195.9 | 3198.8 | 3231.2 | 3285.7  | 3324.8  | 3343.9  | 3336.2  | 3291.4 | 3247.5 | 3218.8 | 3221.7 |
| 30°   | 3313.3 | 3317.2 | 3353.4 | 3413.6  | 3437.4  | 3442.2  | 3440.3  | 3419.3 | 3379.2 | 3341.0 | 3343.9 |
| 32.5° | 3456.5 | 3458.4 | 3507.1 | 3561.5  | 3580.6  | 3584.4  | 3580.6  | 3561.5 | 3513.8 | 3462.3 | 3465.1 |
| 35°   | 3640.8 | 3646.5 | 3693.3 | 3745.8  | 3761.0  | 3768.7  | 3762.0  | 3737.2 | 3687.5 | 3636.9 | 3635.0 |
| 37.5° | 3867.9 | 3868.9 | 3917.6 | 3972.0  | 3991.1  | 3993.0  | 3985.4  | 3969.1 | 3907.1 | 3861.3 | 3858.4 |
| 40°   | 4131.4 | 4135.2 | 4192.5 | 4250.7  | 4258.4  | 4249.8  | 4260.3  | 4250.7 | 4186.8 | 4134.3 | 4142.9 |
| 42.5° | 4452.1 | 4460.7 | 4529.5 | 4586.7  | 4564.8  | 4560.0  | 4566.7  | 4569.6 | 4518.0 | 4454.1 | 4448.3 |
| 45°   | 4825.4 | 4833.0 | 4918.9 | 4964.8  | 4950.4  | 4918.9  | 4932.3  | 4955.2 | 4883.6 | 4804.4 | 4812.0 |
| 47.5° | 5251.1 | 5270.2 | 5361.9 | 5404.8  | 5369.5  | 5326.5  | 5352.3  | 5386.7 | 5302.7 | 5204.4 | 5199.6 |
| 50°   | 5724.6 | 5748.5 | 5870.6 | 5930.8  | 5895.5  | 5816.2  | 5859.2  | 5882.1 | 5760.9 | 5633.9 | 5623.4 |
| 52.5° | 6229.6 | 6253.4 | 6407.1 | 6531.2  | 6508.3  | 6385.2  | 6445.3  | 6421.4 | 6282.1 | 6111.2 | 6097.8 |
| 55°   | 6801.4 | 6810.9 | 6977.0 | 7177.5  | 7200.4  | 7109.7  | 7105.9  | 7066.7 | 6860.5 | 6662.9 | 6653.4 |
| 57.5° | 7389.4 | 7396.1 | 7610.8 | 7847.6  | 7955.4  | 7955.4  | 7848.5  | 7765.5 | 7491.5 | 7262.4 | 7238.6 |
| 60°   | 8024.2 | 8048.0 | 8285.7 | 8607.4  | 8859.4  | 8933.9  | 8744.9  | 8518.6 | 8220.8 | 7941.1 | 7913.4 |
| 62.5° | 8589.3 | 8617.0 | 8980.7 | 9459.9  | 9864.6  | 10135.7 | 9673.7  | 9305.2 | 8763.0 | 8314.4 | 8261.9 |
| 65°   | 8660.9 | 8735.3 | 9265.1 | 10132.8 | 11038.7 | 11580.0 | 10694.1 | 9786.3 | 8798.3 | 8175.0 | 8121.5 |
| 67.5° | 7909.6 | 8035.6 | 8751.6 | 10102.3 | 11974.2 | 13135.9 | 11346.1 | 9511.4 | 8164.5 | 7475.3 | 7416.1 |
| 70°   | 6077.8 | 6261.1 | 7086.8 | 8836.5  | 11812.9 | 13637.1 | 10937.5 | 8326.8 | 6807.1 | 6065.4 | 5982.3 |
| 72.5° | 3334.3 | 3409.7 | 4152.4 | 6051.1  | 9470.4  | 11588.6 | 9122.9  | 6157.0 | 4514.2 | 3673.2 | 3533.8 |
| 75°   | 1057.7 | 1084.4 | 1462.4 | 2476.2  | 5357.1  | 7675.8  | 5795.2  | 3022.2 | 1663.8 | 1226.6 | 1212.3 |
| 77.5° | 469.7  | 472.5  | 528.8  | 722.6   | 1845.2  | 3888.9  | 2216.5  | 822.8  | 567.0  | 495.4  | 511.7  |
| 80°   | 296.9  | 296.9  | 327.4  | 358.0   | 502.1   | 1129.3  | 599.5   | 391.4  | 334.1  | 310.2  | 316.9  |
| 82.5° | 142.2  | 157.5  | 212.9  | 229.1   | 275.9   | 379.9   | 307.4   | 255.8  | 223.4  | 166.1  | 154.6  |
| 85°   | 93.5   | 78.3   | 134.6  | 151.8   | 160.4   | 182.3   | 178.5   | 169.0  | 146.1  | 83.0   | 92.6   |
| 87.5° | 42.0   | 40.1   | 69.7   | 64.0    | 60.1    | 45.8    | 68.7    | 85.0   | 82.1   | 41.0   | 41.0   |
| 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)