

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: P316409

Luminaire Tested: **GAN-SA5C-727-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316409  
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-SA5C-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 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: 31057 lumens  
Efficiency: N/A  
Efficacy: 111.3 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): 279  
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

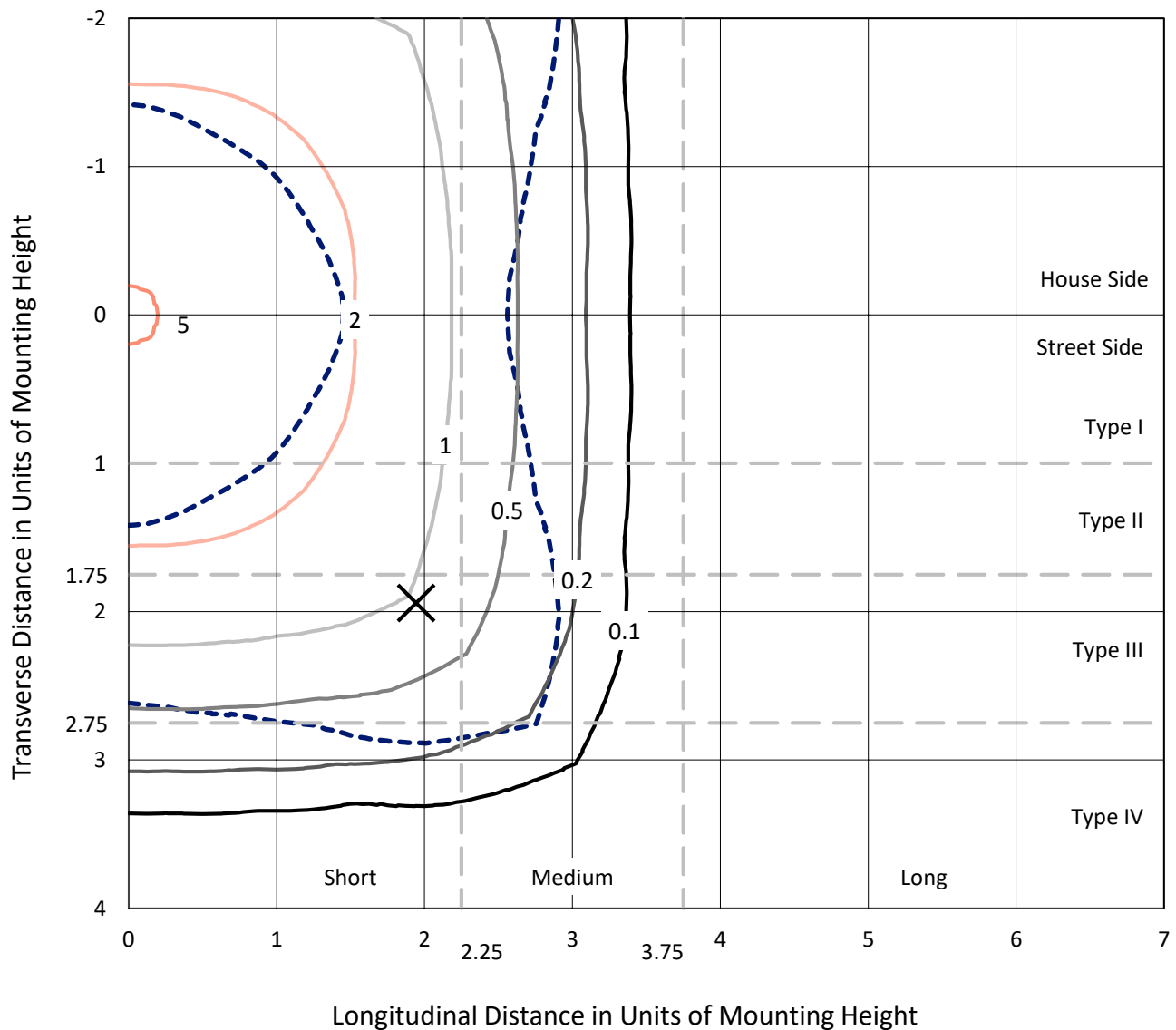


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## Iso-Footcandle Lines of Horizontal Illumination

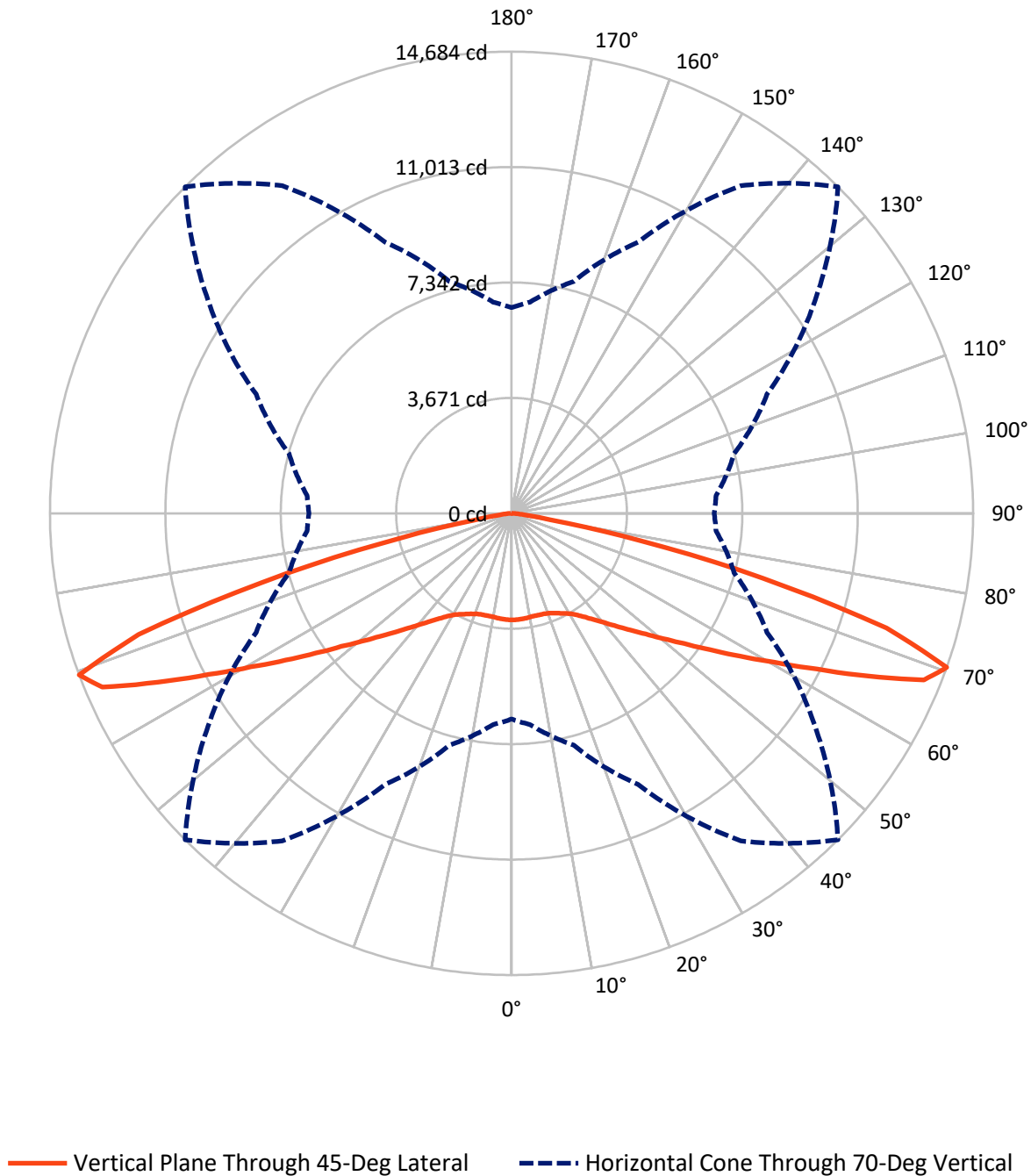
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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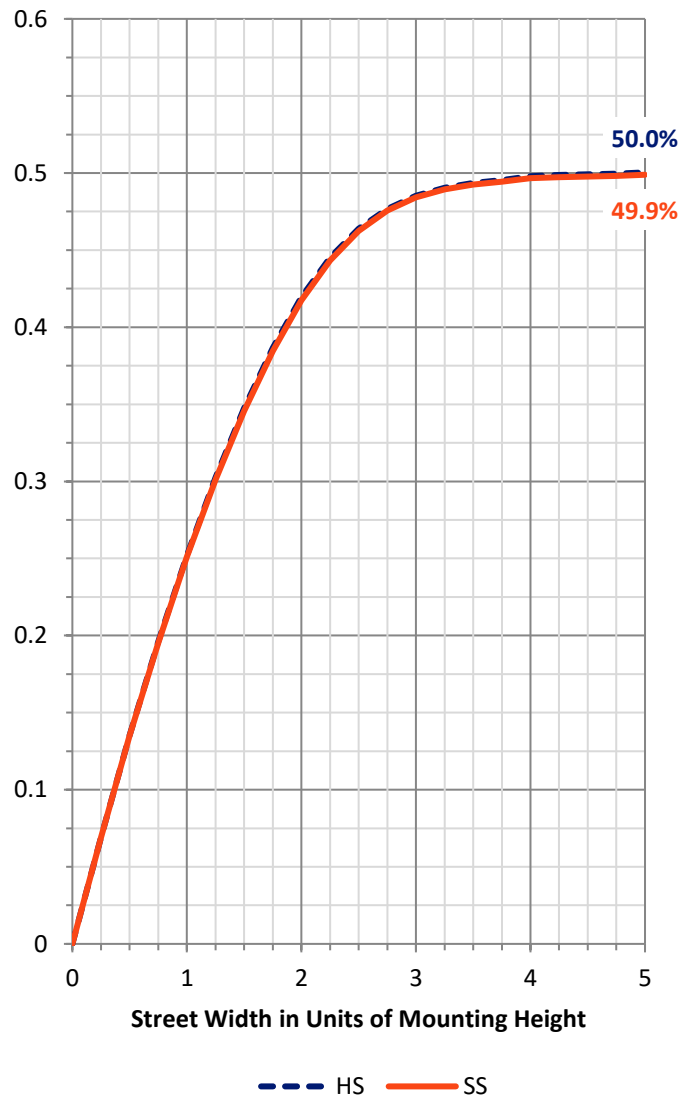
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15528.5  | 0.0    | 15528.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15528.5  | 0.0    | 15528.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31057.0  | 0.0    | 31057.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 321.3   | 1.0       |
| 10°-20°   | 943.1   | 3.0       |
| 20°-30°   | 1605.5  | 5.2       |
| 30°-40°   | 2546.3  | 8.2       |
| 40°-50°   | 4143.5  | 13.3      |
| 50°-60°   | 6832.0  | 22.0      |
| 60°-70°   | 10029.5 | 32.3      |
| 70°-80°   | 4435.0  | 14.3      |
| 80°-90°   | 200.8   | 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°    | 31057.0 | 100.0     |
| 0°-180°   | 31057.0 | 100.0     |

**Coefficient of Utilization**



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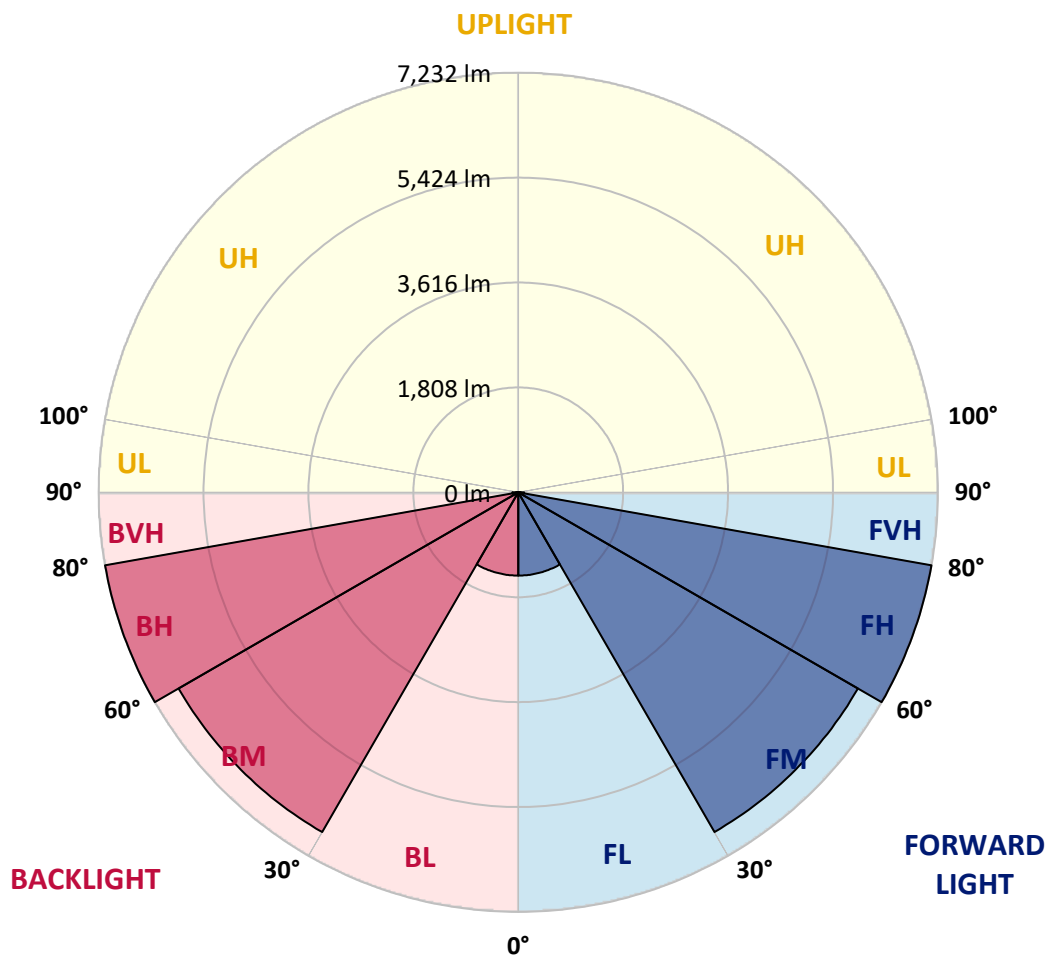
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1434.9 | 4.6       |                         |      |         |
| FM   | (30°-60°)   | 6760.9 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 7232.3 | 23.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 100.4  | 0.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1434.9 | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6760.9 | 21.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 7232.3 | 23.3      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 100.4  | 0.3       |                         |      | G2/225  |
| 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°    | 3391.9 | 3391.9 | 3391.9 | 3391.9  | 3391.9  | 3391.9  | 3391.9  | 3391.9  | 3391.9 | 3391.9 | 3391.9 |
| 2.5°  | 3386.8 | 3383.7 | 3390.9 | 3389.9  | 3383.7  | 3384.7  | 3384.7  | 3387.8  | 3387.8 | 3385.7 | 3385.7 |
| 5°    | 3374.4 | 3372.4 | 3380.6 | 3380.6  | 3374.4  | 3376.5  | 3378.5  | 3381.6  | 3380.6 | 3378.5 | 3377.5 |
| 7.5°  | 3359.0 | 3358.0 | 3366.2 | 3366.2  | 3362.1  | 3364.2  | 3362.1  | 3363.1  | 3361.1 | 3359.0 | 3355.9 |
| 10°   | 3333.3 | 3335.4 | 3342.6 | 3344.6  | 3344.6  | 3345.7  | 3343.6  | 3338.5  | 3335.4 | 3332.3 | 3329.2 |
| 12.5° | 3309.7 | 3308.7 | 3318.9 | 3324.1  | 3332.3  | 3341.5  | 3335.4  | 3321.0  | 3314.8 | 3308.7 | 3306.6 |
| 15°   | 3294.3 | 3295.3 | 3305.6 | 3314.8  | 3329.2  | 3348.7  | 3341.5  | 3318.9  | 3306.6 | 3299.4 | 3297.3 |
| 17.5° | 3291.2 | 3293.2 | 3306.6 | 3323.0  | 3338.5  | 3360.0  | 3355.9  | 3333.3  | 3312.8 | 3299.4 | 3296.3 |
| 20°   | 3298.4 | 3299.4 | 3320.0 | 3343.6  | 3370.3  | 3390.9  | 3381.6  | 3357.0  | 3329.2 | 3308.7 | 3303.5 |
| 22.5° | 3311.7 | 3315.8 | 3341.5 | 3378.5  | 3419.7  | 3447.4  | 3436.1  | 3394.0  | 3350.8 | 3325.1 | 3317.9 |
| 25°   | 3353.9 | 3354.9 | 3389.9 | 3440.2  | 3489.6  | 3521.4  | 3508.1  | 3448.4  | 3392.9 | 3364.2 | 3354.9 |
| 27.5° | 3441.2 | 3444.3 | 3479.3 | 3537.9  | 3580.0  | 3600.6  | 3592.3  | 3544.0  | 3496.7 | 3465.9 | 3469.0 |
| 30°   | 3567.7 | 3571.8 | 3610.8 | 3675.6  | 3701.3  | 3706.4  | 3704.4  | 3681.8  | 3638.6 | 3597.5 | 3600.6 |
| 32.5° | 3721.8 | 3723.9 | 3776.3 | 3834.9  | 3855.5  | 3859.6  | 3855.5  | 3834.9  | 3783.5 | 3728.0 | 3731.1 |
| 35°   | 3920.2 | 3926.4 | 3976.8 | 4033.3  | 4049.7  | 4058.0  | 4050.8  | 4024.0  | 3970.6 | 3916.1 | 3914.1 |
| 37.5° | 4164.9 | 4165.9 | 4218.3 | 4276.9  | 4297.4  | 4299.5  | 4291.3  | 4273.8  | 4207.0 | 4157.7 | 4154.6 |
| 40°   | 4448.5 | 4452.6 | 4514.3 | 4577.0  | 4585.2  | 4576.0  | 4587.3  | 4577.0  | 4508.2 | 4451.6 | 4460.9 |
| 42.5° | 4793.9 | 4803.1 | 4877.2 | 4938.8  | 4915.2  | 4910.0  | 4917.2  | 4920.3  | 4864.8 | 4796.0 | 4789.8 |
| 45°   | 5195.8 | 5204.0 | 5296.5 | 5345.9  | 5330.4  | 5296.5  | 5310.9  | 5335.6  | 5258.5 | 5173.2 | 5181.4 |
| 47.5° | 5654.2 | 5674.8 | 5773.4 | 5819.7  | 5781.7  | 5735.4  | 5763.2  | 5800.2  | 5709.7 | 5603.8 | 5598.7 |
| 50°   | 6164.0 | 6189.7 | 6321.3 | 6386.0  | 6348.0  | 6262.7  | 6308.9  | 6333.6  | 6203.1 | 6066.4 | 6055.1 |
| 52.5° | 6707.8 | 6733.5 | 6898.9 | 7032.6  | 7007.9  | 6875.3  | 6940.0  | 6914.4  | 6764.3 | 6580.3 | 6565.9 |
| 55°   | 7323.4 | 7333.7 | 7512.6 | 7728.4  | 7753.1  | 7655.4  | 7651.3  | 7609.2  | 7387.2 | 7174.4 | 7164.1 |
| 57.5° | 7956.6 | 7963.8 | 8195.1 | 8450.0  | 8566.1  | 8566.1  | 8451.0  | 8361.6  | 8066.6 | 7819.9 | 7794.2 |
| 60°   | 8640.1 | 8665.8 | 8921.7 | 9268.1  | 9539.5  | 9619.7  | 9416.1  | 9172.5  | 8851.9 | 8550.7 | 8520.9 |
| 62.5° | 9248.6 | 9278.4 | 9670.0 | 10186.0 | 10621.8 | 10913.7 | 10416.2 | 10019.5 | 9435.7 | 8952.6 | 8896.0 |
| 65°   | 9325.7 | 9405.9 | 9976.3 | 10910.6 | 11886.1 | 12468.9 | 11515.0 | 10537.5 | 9473.7 | 8802.5 | 8745.0 |
| 67.5° | 8516.8 | 8652.4 | 9423.3 | 10877.7 | 12893.4 | 14144.3 | 12217.0 | 10241.5 | 8791.2 | 8049.1 | 7985.4 |
| 70°   | 6544.3 | 6741.7 | 7630.8 | 9514.8  | 12719.7 | 14683.9 | 11777.1 | 8965.9  | 7329.6 | 6531.0 | 6441.5 |
| 72.5° | 3590.3 | 3671.5 | 4471.2 | 6515.5  | 10197.3 | 12478.1 | 9823.2  | 6629.6  | 4860.7 | 3955.2 | 3805.1 |
| 75°   | 1138.9 | 1167.6 | 1574.7 | 2666.2  | 5768.3  | 8264.9  | 6240.1  | 3254.2  | 1791.5 | 1320.8 | 1305.4 |
| 77.5° | 505.7  | 508.8  | 569.4  | 778.1   | 1986.8  | 4187.5  | 2386.7  | 886.0   | 610.5  | 533.5  | 550.9  |
| 80°   | 319.7  | 319.7  | 352.6  | 385.4   | 540.6   | 1215.9  | 645.5   | 421.4   | 359.7  | 334.1  | 341.2  |
| 82.5° | 153.1  | 169.6  | 229.2  | 246.7   | 297.0   | 409.1   | 331.0   | 275.5   | 240.5  | 178.8  | 166.5  |
| 85°   | 100.7  | 84.3   | 144.9  | 163.4   | 172.7   | 196.3   | 192.2   | 181.9   | 157.3  | 89.4   | 99.7   |
| 87.5° | 45.2   | 43.2   | 75.0   | 68.9    | 64.8    | 49.3    | 74.0    | 91.5    | 88.4   | 44.2   | 44.2   |
| 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)