

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: P316081

Luminaire Tested: **GAN-SA7B-727-U-5WQ**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P316081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7B-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 35606 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

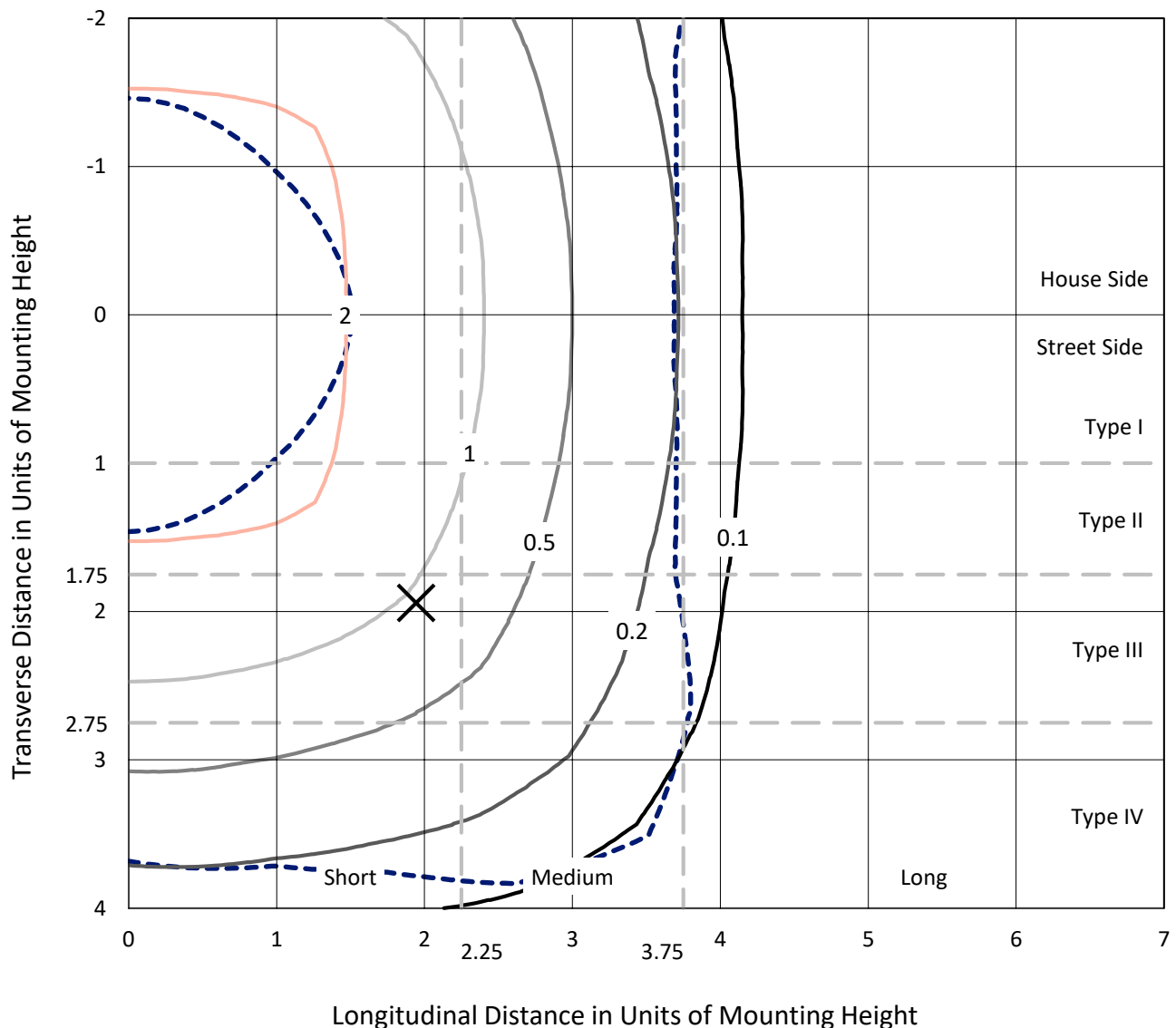
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

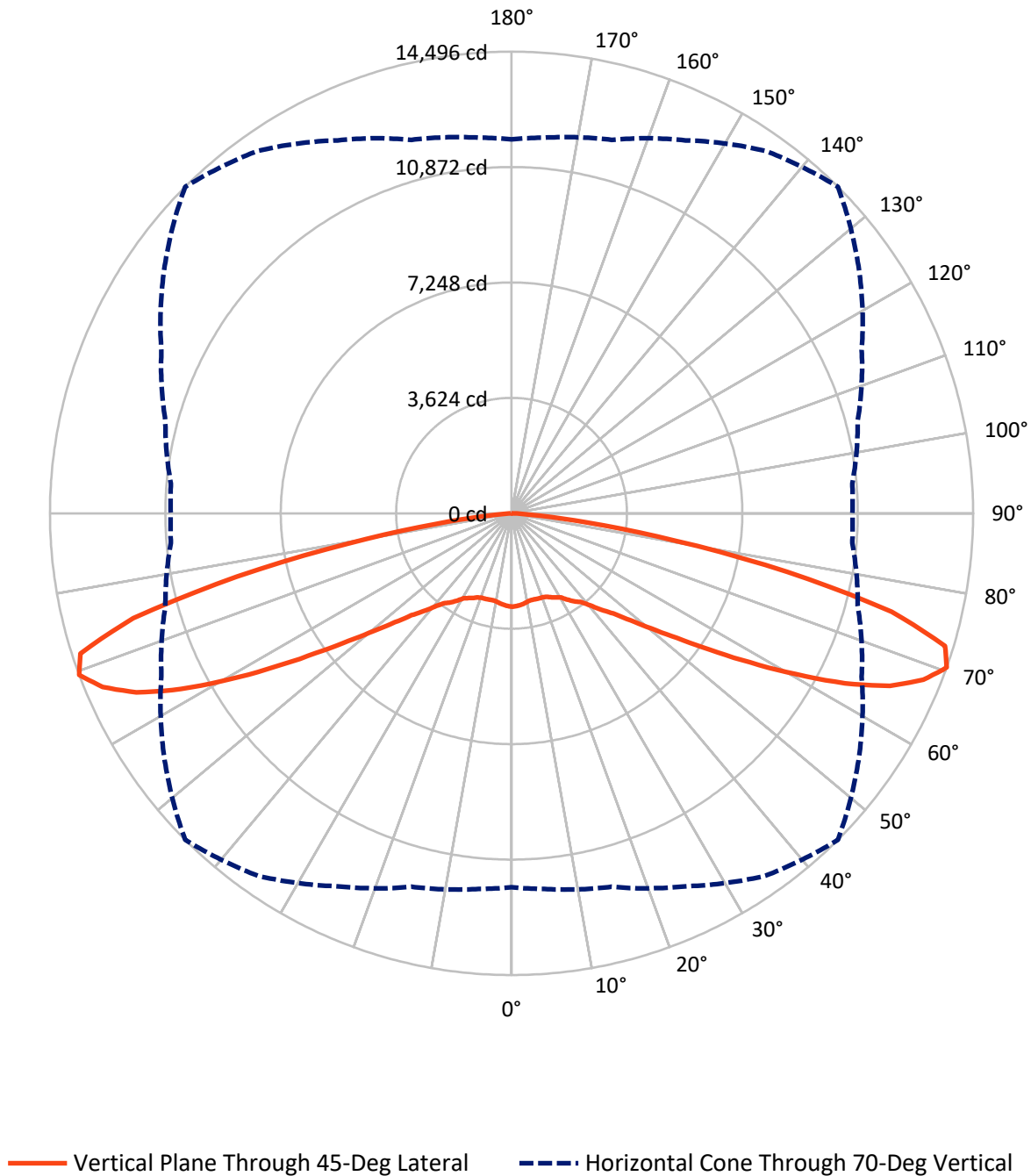
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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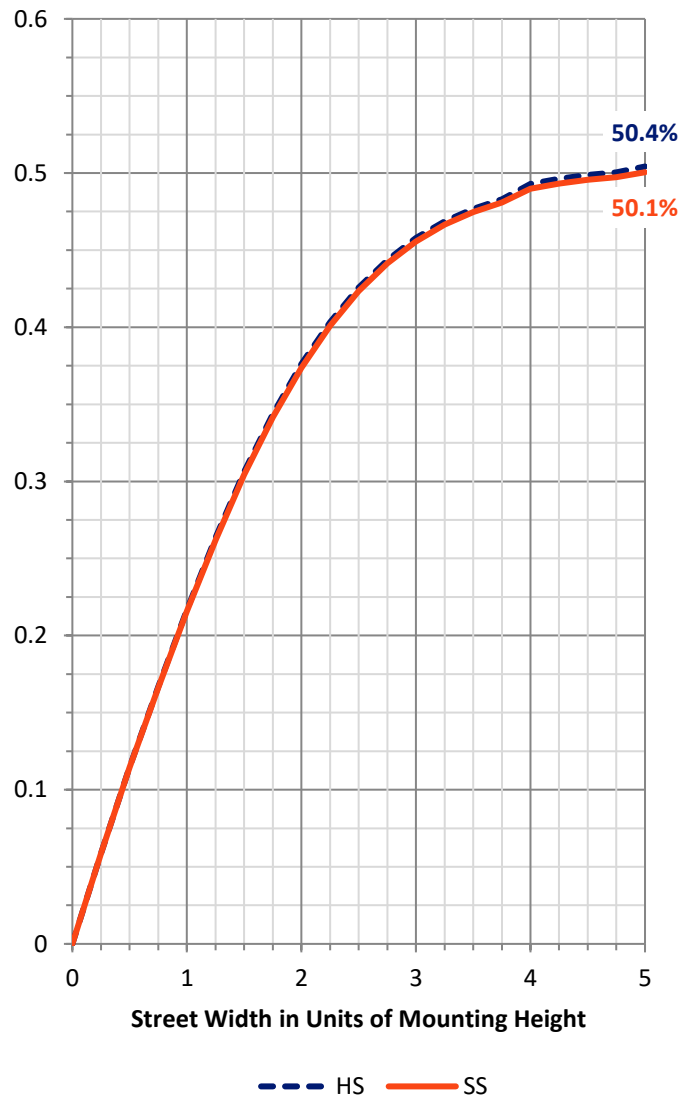
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17803.0  | 0.0    | 17803.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17803.0  | 0.0    | 17803.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 35606.0  | 0.0    | 35606.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 273.5   | 0.8       |
| 10°-20°   | 798.9   | 2.2       |
| 20°-30°   | 1362.1  | 3.8       |
| 30°-40°   | 2128.3  | 6.0       |
| 40°-50°   | 3607.0  | 10.1      |
| 50°-60°   | 6577.7  | 18.5      |
| 60°-70°   | 11324.0 | 31.8      |
| 70°-80°   | 8876.2  | 24.9      |
| 80°-90°   | 658.2   | 1.8       |
| 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°    | 35606.0 | 100.0     |
| 0°-180°   | 35606.0 | 100.0     |

**Coefficient of Utilization**



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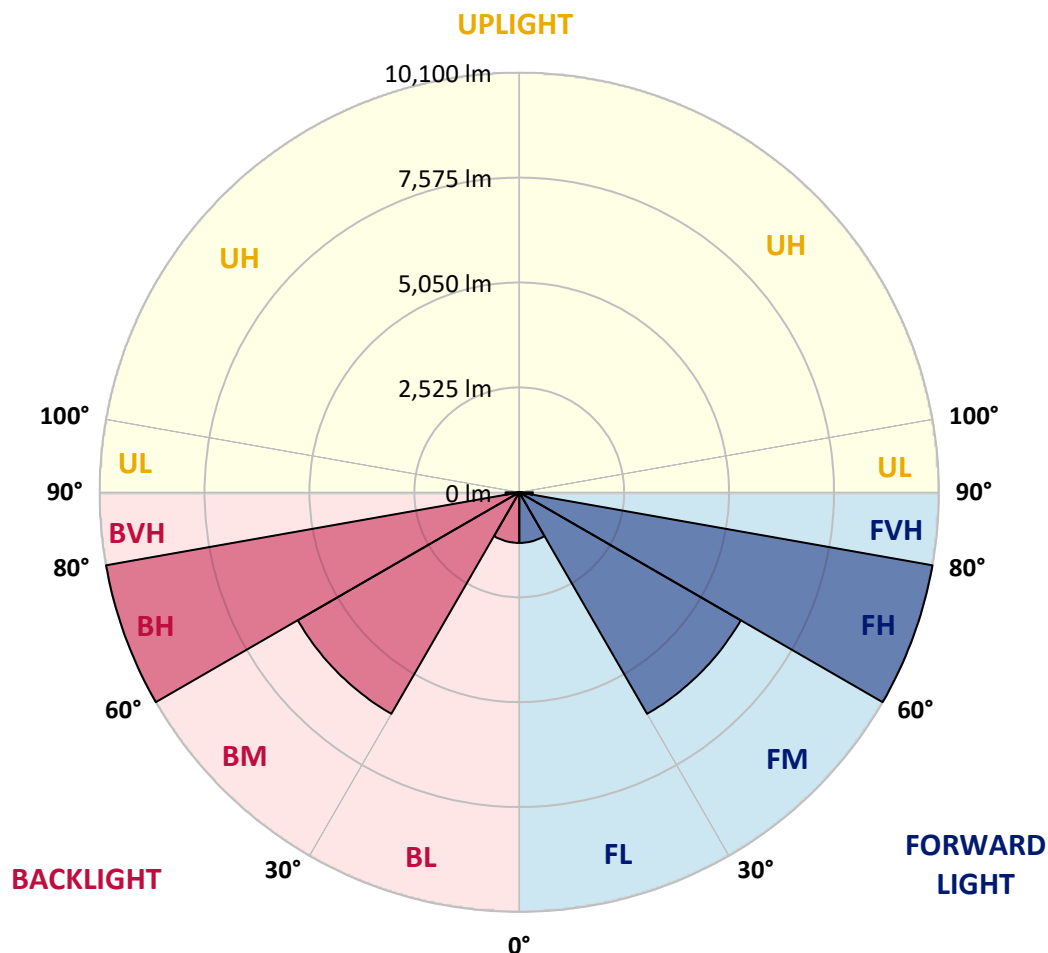
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1217.3  | 3.4       |                         |      |          |
| FM   | (30°-60°)   | 6156.6  | 17.3      |                         |      |          |
| FH   | (60°-80°)   | 10100.1 | 28.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 329.1   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1217.3  | 3.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 6156.6  | 17.3      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 10100.1 | 28.4      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 329.1   | 0.9       |                         |      | 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2930.4  | 2930.4  | 2930.4  | 2930.4  | 2930.4  | 2930.4  | 2930.4  | 2930.4  | 2930.4  | 2930.4  | 2930.4  |
| 2.5°  | 2917.4  | 2921.0  | 2917.4  | 2919.8  | 2913.9  | 2916.2  | 2916.2  | 2916.2  | 2915.1  | 2916.2  | 2913.9  |
| 5°    | 2891.5  | 2893.9  | 2889.2  | 2891.5  | 2888.0  | 2891.5  | 2892.7  | 2891.5  | 2889.2  | 2890.3  | 2885.6  |
| 7.5°  | 2852.6  | 2855.0  | 2851.5  | 2855.0  | 2850.3  | 2856.2  | 2855.0  | 2851.5  | 2847.9  | 2847.9  | 2843.2  |
| 10°   | 2831.4  | 2832.6  | 2823.2  | 2819.7  | 2809.1  | 2811.4  | 2815.0  | 2818.5  | 2822.0  | 2829.1  | 2827.9  |
| 12.5° | 2832.6  | 2832.6  | 2818.5  | 2803.2  | 2787.9  | 2791.4  | 2797.3  | 2810.2  | 2824.4  | 2837.3  | 2838.5  |
| 15°   | 2844.4  | 2843.2  | 2822.0  | 2797.3  | 2786.7  | 2797.3  | 2800.8  | 2809.1  | 2831.4  | 2853.8  | 2855.0  |
| 17.5° | 2852.6  | 2852.6  | 2819.7  | 2791.4  | 2790.2  | 2806.7  | 2805.5  | 2809.1  | 2833.8  | 2866.8  | 2868.0  |
| 20°   | 2868.0  | 2868.0  | 2825.6  | 2794.9  | 2794.9  | 2812.6  | 2813.8  | 2819.7  | 2844.4  | 2880.9  | 2886.8  |
| 22.5° | 2902.1  | 2903.3  | 2858.5  | 2833.8  | 2836.2  | 2846.8  | 2850.3  | 2859.7  | 2882.1  | 2922.1  | 2929.2  |
| 25°   | 2950.4  | 2952.8  | 2906.8  | 2892.7  | 2900.9  | 2921.0  | 2918.6  | 2925.7  | 2950.4  | 2989.3  | 2996.3  |
| 27.5° | 3017.5  | 3011.6  | 2969.2  | 2963.4  | 2971.6  | 2985.7  | 2984.6  | 2985.7  | 3005.8  | 3041.1  | 3049.3  |
| 30°   | 3104.7  | 3102.3  | 3071.7  | 3075.2  | 3071.7  | 3067.0  | 3068.2  | 3077.6  | 3088.2  | 3116.5  | 3124.7  |
| 32.5° | 3189.5  | 3191.9  | 3173.0  | 3190.7  | 3216.6  | 3234.3  | 3207.2  | 3181.3  | 3169.5  | 3184.8  | 3191.9  |
| 35°   | 3342.6  | 3348.5  | 3319.1  | 3307.3  | 3342.6  | 3394.4  | 3317.9  | 3275.5  | 3299.0  | 3319.1  | 3324.9  |
| 37.5° | 3602.9  | 3606.4  | 3557.0  | 3509.9  | 3483.9  | 3533.4  | 3456.9  | 3460.4  | 3542.8  | 3580.5  | 3579.3  |
| 40°   | 3899.7  | 3900.9  | 3867.9  | 3826.7  | 3781.9  | 3793.7  | 3763.1  | 3772.5  | 3826.7  | 3860.8  | 3870.3  |
| 42.5° | 4253.1  | 4249.5  | 4197.7  | 4138.8  | 4125.9  | 4137.6  | 4085.8  | 4078.7  | 4141.2  | 4202.4  | 4203.6  |
| 45°   | 4711.2  | 4703.0  | 4635.8  | 4571.1  | 4508.6  | 4482.7  | 4469.8  | 4503.9  | 4589.9  | 4646.4  | 4647.6  |
| 47.5° | 5204.7  | 5182.3  | 5147.0  | 5095.2  | 5041.0  | 5015.1  | 4993.9  | 5010.4  | 5072.8  | 5095.2  | 5097.5  |
| 50°   | 5712.4  | 5717.1  | 5724.1  | 5704.1  | 5684.1  | 5675.8  | 5620.5  | 5588.7  | 5607.5  | 5566.3  | 5560.4  |
| 52.5° | 6314.2  | 6323.6  | 6391.9  | 6449.7  | 6483.8  | 6501.5  | 6396.7  | 6287.1  | 6225.9  | 6145.8  | 6122.2  |
| 55°   | 7024.4  | 7039.7  | 7139.9  | 7300.0  | 7464.9  | 7552.1  | 7362.5  | 7157.5  | 6967.9  | 6818.3  | 6770.0  |
| 57.5° | 7815.9  | 7843.0  | 7980.8  | 8288.2  | 8626.2  | 8832.4  | 8512.0  | 8139.8  | 7773.5  | 7558.0  | 7520.3  |
| 60°   | 8744.0  | 8769.9  | 8960.7  | 9401.2  | 9948.9  | 10258.7 | 9773.4  | 9164.5  | 8708.7  | 8502.6  | 8433.1  |
| 62.5° | 9848.8  | 9851.2  | 10085.5 | 10600.2 | 11323.4 | 11754.5 | 11097.3 | 10283.4 | 9813.5  | 9565.0  | 9497.8  |
| 65°   | 11037.2 | 11043.1 | 11285.7 | 11841.7 | 12589.6 | 13058.3 | 12316.3 | 11468.3 | 10893.5 | 10527.2 | 10475.4 |
| 67.5° | 11877.0 | 11901.7 | 12157.3 | 12826.3 | 13525.9 | 13948.7 | 13180.8 | 12222.1 | 11557.8 | 11120.8 | 11077.3 |
| 70°   | 11742.7 | 11839.3 | 12139.6 | 12920.5 | 13893.4 | 14496.4 | 13321.0 | 12132.6 | 11256.3 | 10740.4 | 10703.9 |
| 72.5° | 10241.0 | 10425.9 | 10826.4 | 11851.1 | 13407.0 | 14237.3 | 12556.6 | 10866.4 | 9874.7  | 9435.4  | 9369.4  |
| 75°   | 6973.8  | 7274.1  | 7878.3  | 9356.5  | 11454.2 | 12326.9 | 10570.8 | 8663.9  | 7731.1  | 7123.4  | 7078.6  |
| 77.5° | 3109.4  | 3177.7  | 3943.3  | 5645.2  | 7904.2  | 8852.4  | 7680.5  | 5667.6  | 4254.2  | 3393.3  | 3211.9  |
| 80°   | 866.9   | 877.5   | 1170.7  | 2102.4  | 3956.2  | 5201.2  | 4247.2  | 2208.4  | 1241.4  | 875.1   | 824.5   |
| 82.5° | 275.6   | 299.2   | 365.1   | 545.3   | 1329.7  | 2373.3  | 1365.1  | 588.9   | 419.3   | 334.5   | 301.5   |
| 85°   | 134.3   | 133.1   | 184.9   | 221.4   | 339.2   | 525.3   | 361.6   | 273.3   | 239.1   | 159.0   | 143.7   |
| 87.5° | 56.5    | 57.7    | 86.0    | 77.7    | 98.9    | 84.8    | 116.6   | 122.5   | 128.4   | 70.7    | 61.2    |
| 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)