

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: P529211

Luminaire Tested: **GLAN-SA4B-760-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529211  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-760-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15463.9 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

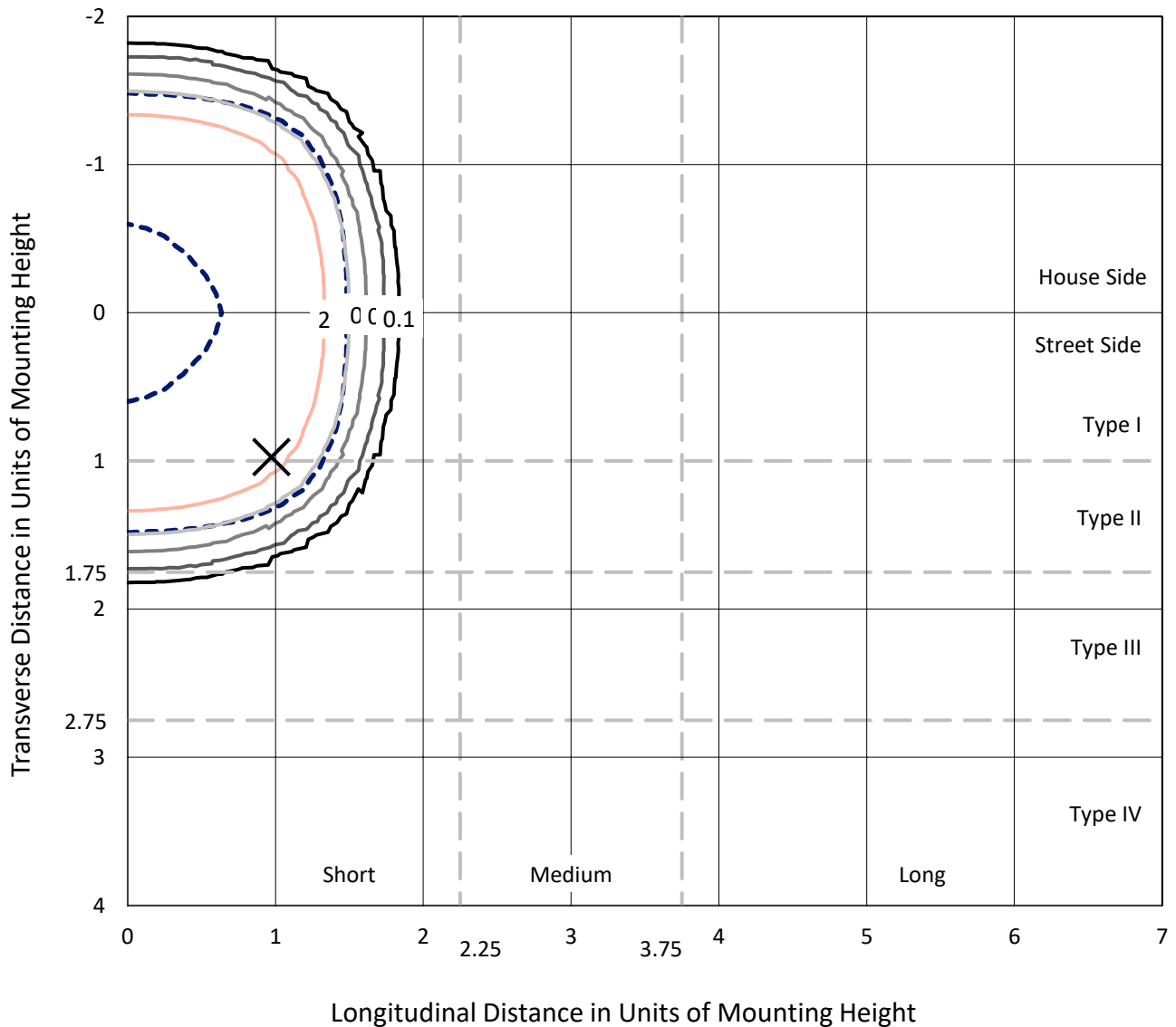
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

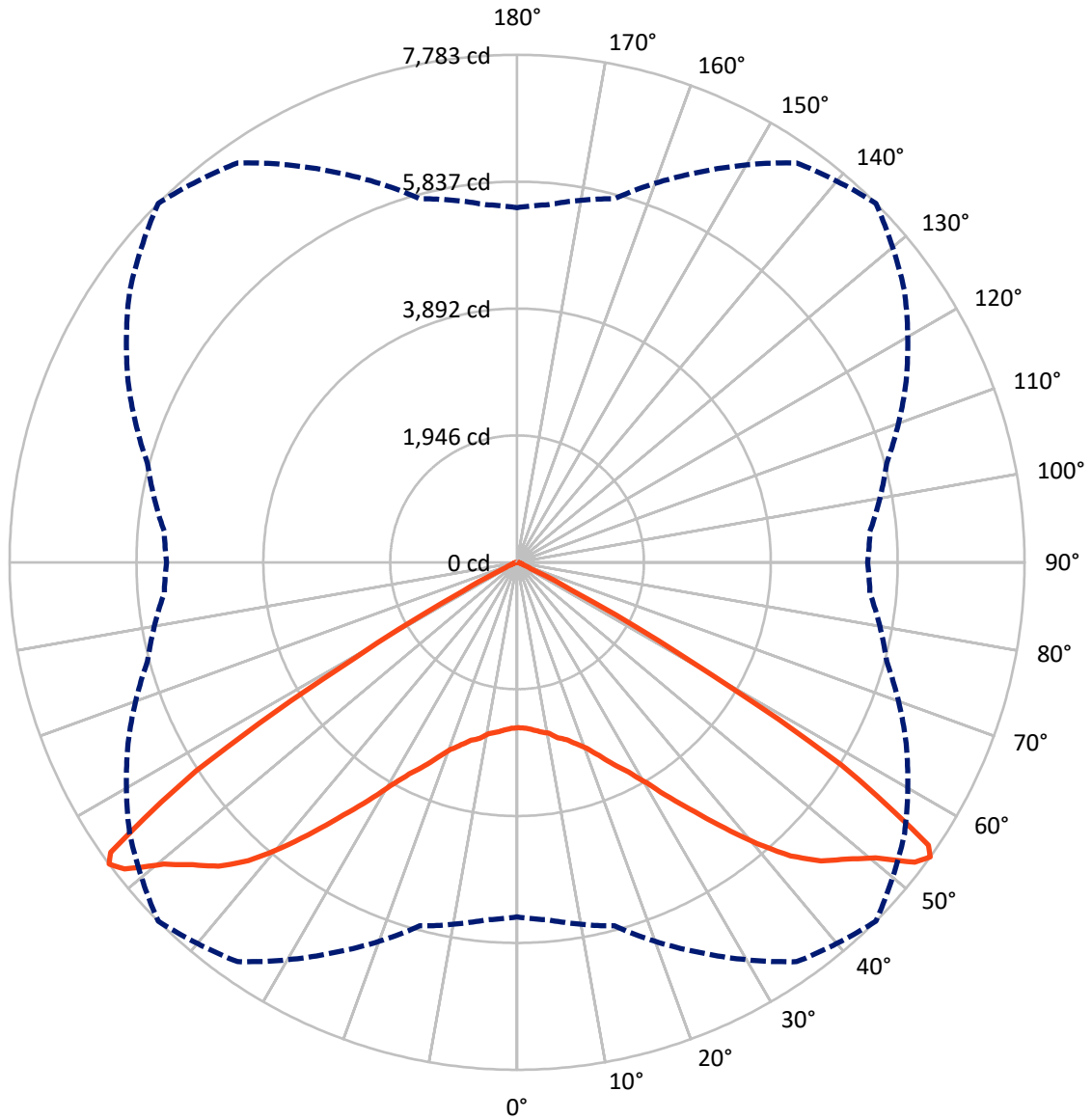
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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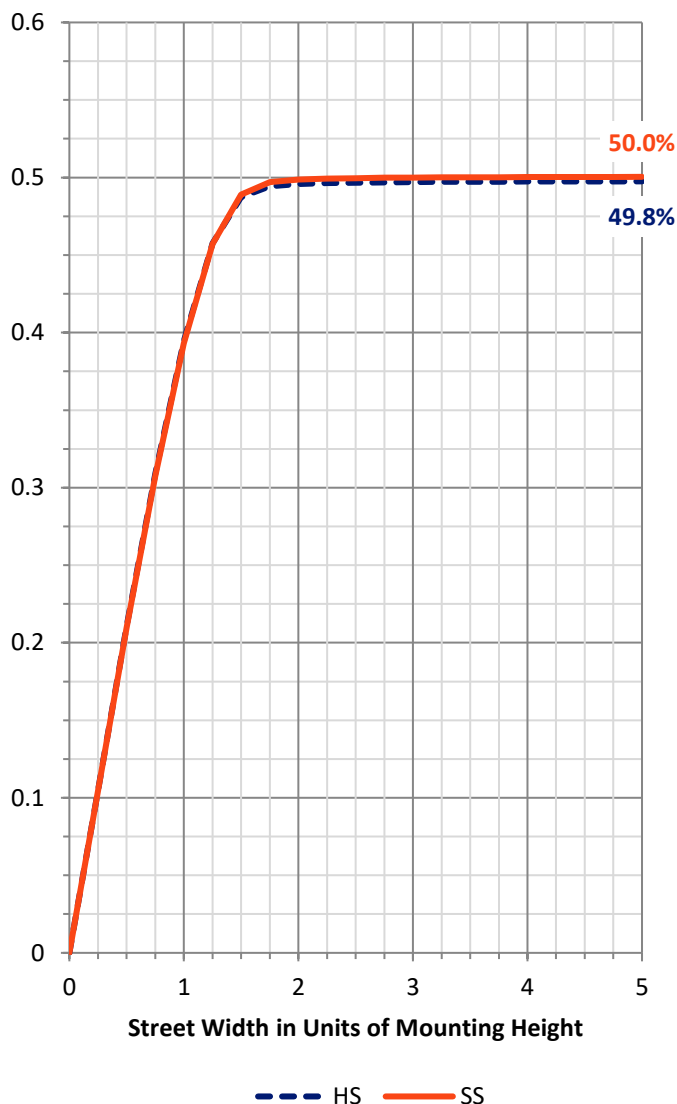
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7732.0   | 0.0    | 7732.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7732.0   | 0.0    | 7732.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15463.9  | 0.0    | 15463.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 248.2   | 1.6       |
| 10°-20°   | 803.7   | 5.2       |
| 20°-30°   | 1575.2  | 10.2      |
| 30°-40°   | 2832.5  | 18.3      |
| 40°-50°   | 4848.7  | 31.4      |
| 50°-60°   | 4691.6  | 30.3      |
| 60°-70°   | 401.6   | 2.6       |
| 70°-80°   | 47.6    | 0.3       |
| 80°-90°   | 14.9    | 0.1       |
| 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°    | 15463.9 | 100.0     |
| 0°-180°   | 15463.9 | 100.0     |

**Coefficient of Utilization**

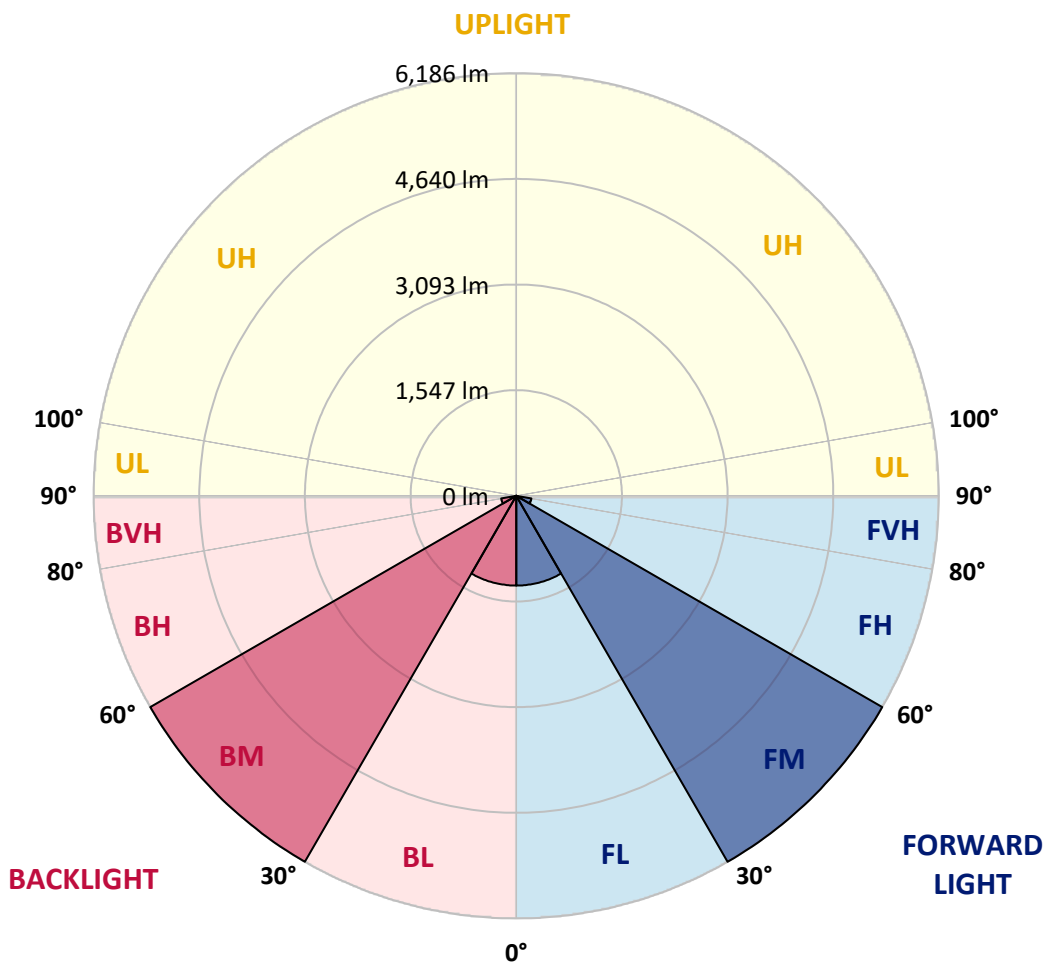


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1313.5 | 8.5       |                         |      |        |
| FM (30°-60°)   | 6186.4 | 40.0      |                         |      |        |
| FH (60°-80°)   | 224.6  | 1.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 7.5    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 1313.5 | 8.5       | B3/2500                 |      |        |
| BM (30°-60°)   | 6186.4 | 40.0      | B4/8500                 |      |        |
| BH (60°-80°)   | 224.6  | 1.5       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 7.5    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2535.6 | 2535.6 | 2535.6 | 2535.6 | 2535.6 | 2535.6 | 2535.6 | 2535.6 | 2535.6 | 2535.6 | 2535.6 |
| 2.5°  | 2547.9 | 2562.6 | 2552.8 | 2560.1 | 2560.1 | 2547.9 | 2555.2 | 2525.8 | 2545.4 | 2530.7 | 2533.2 |
| 5°    | 2587.1 | 2584.6 | 2584.6 | 2587.1 | 2577.3 | 2582.2 | 2572.4 | 2562.6 | 2555.2 | 2545.4 | 2574.8 |
| 7.5°  | 2636.1 | 2636.1 | 2618.9 | 2623.8 | 2618.9 | 2626.3 | 2606.7 | 2587.1 | 2579.7 | 2572.4 | 2567.5 |
| 10°   | 2682.6 | 2677.7 | 2670.4 | 2692.4 | 2675.3 | 2665.5 | 2655.7 | 2643.4 | 2616.5 | 2606.7 | 2596.9 |
| 12.5° | 2751.2 | 2748.8 | 2739.0 | 2761.0 | 2751.2 | 2761.0 | 2724.3 | 2692.4 | 2687.5 | 2655.7 | 2672.8 |
| 15°   | 2832.0 | 2854.1 | 2836.9 | 2836.9 | 2832.0 | 2819.8 | 2805.1 | 2790.4 | 2746.3 | 2734.1 | 2736.5 |
| 17.5° | 2937.4 | 2930.0 | 2932.5 | 2932.5 | 2957.0 | 2925.1 | 2895.7 | 2859.0 | 2836.9 | 2829.6 | 2805.1 |
| 20°   | 3037.8 | 3047.6 | 3045.2 | 3062.3 | 3077.0 | 3042.7 | 3010.9 | 3006.0 | 2944.7 | 2954.5 | 2920.2 |
| 22.5° | 3214.2 | 3206.9 | 3219.1 | 3231.4 | 3221.6 | 3216.7 | 3187.3 | 3150.5 | 3096.6 | 3072.1 | 3067.2 |
| 25°   | 3400.4 | 3388.2 | 3366.1 | 3395.5 | 3410.2 | 3432.3 | 3375.9 | 3356.3 | 3273.0 | 3236.3 | 3238.7 |
| 27.5° | 3559.7 | 3576.8 | 3601.3 | 3613.6 | 3650.3 | 3643.0 | 3603.8 | 3540.1 | 3476.4 | 3434.7 | 3407.8 |
| 30°   | 3777.7 | 3787.5 | 3829.1 | 3846.3 | 3910.0 | 3927.1 | 3865.9 | 3792.4 | 3679.7 | 3625.8 | 3594.0 |
| 32.5° | 3978.6 | 4047.2 | 4044.7 | 4130.5 | 4233.4 | 4304.4 | 4194.2 | 4081.5 | 3968.8 | 3905.1 | 3848.7 |
| 35°   | 4304.4 | 4292.2 | 4363.2 | 4453.9 | 4620.5 | 4701.3 | 4581.3 | 4451.4 | 4279.9 | 4177.0 | 4132.9 |
| 37.5° | 4608.2 | 4613.1 | 4708.6 | 4853.2 | 5044.3 | 5169.2 | 5063.9 | 4850.7 | 4674.3 | 4542.1 | 4480.8 |
| 40°   | 5049.2 | 5059.0 | 5157.0 | 5321.1 | 5536.7 | 5671.4 | 5549.0 | 5333.4 | 5098.2 | 4995.3 | 4995.3 |
| 42.5° | 5566.1 | 5607.7 | 5671.4 | 5813.5 | 6007.1 | 6156.5 | 6046.3 | 5877.2 | 5639.6 | 5507.3 | 5526.9 |
| 45°   | 6097.7 | 6117.3 | 6159.0 | 6369.7 | 6460.3 | 6533.8 | 6430.9 | 6352.5 | 6193.3 | 6031.6 | 6004.6 |
| 47.5° | 6595.0 | 6602.4 | 6724.9 | 6791.0 | 6862.1 | 6800.8 | 6867.0 | 6764.1 | 6585.2 | 6428.5 | 6396.6 |
| 50°   | 6815.5 | 6803.3 | 6977.2 | 7178.1 | 7232.0 | 7124.2 | 7067.9 | 6999.3 | 6727.3 | 6538.7 | 6455.4 |
| 52.5° | 6173.7 | 6244.7 | 6568.1 | 7126.7 | 7548.0 | 7638.7 | 7310.4 | 6994.4 | 6487.3 | 6119.8 | 6063.4 |
| 54°   | 5438.7 | 5504.9 | 5771.9 | 6599.9 | 7477.0 | 7783.2 | 7254.1 | 6582.8 | 5867.4 | 5431.4 | 5375.0 |
| 55°   | 4711.1 | 4637.6 | 5122.7 | 5967.9 | 7143.8 | 7655.8 | 7031.1 | 6051.2 | 5232.9 | 4833.6 | 4755.2 |
| 57.5° | 2550.3 | 2562.6 | 2971.7 | 3770.3 | 5019.8 | 5869.9 | 5183.9 | 4093.7 | 3091.7 | 2643.4 | 2604.2 |
| 60°   | 808.5  | 828.1  | 1006.9 | 1523.8 | 2398.4 | 2863.9 | 2454.8 | 1643.9 | 1136.7 | 911.4  | 874.6  |
| 62.5° | 252.3  | 262.1  | 286.6  | 426.3  | 656.6  | 938.3  | 735.0  | 441.0  | 328.3  | 301.3  | 306.2  |
| 65°   | 154.3  | 154.3  | 156.8  | 166.6  | 196.0  | 227.8  | 220.5  | 193.5  | 186.2  | 181.3  | 178.8  |
| 67.5° | 100.4  | 98.0   | 102.9  | 110.2  | 115.1  | 117.6  | 124.9  | 132.3  | 129.8  | 124.9  | 124.9  |
| 70°   | 61.2   | 58.8   | 63.7   | 73.5   | 75.9   | 80.8   | 88.2   | 98.0   | 95.5   | 90.6   | 93.1   |
| 72.5° | 34.3   | 34.3   | 36.7   | 44.1   | 51.4   | 56.3   | 63.7   | 71.0   | 73.5   | 71.0   | 71.0   |
| 75°   | 12.2   | 14.7   | 19.6   | 26.9   | 31.8   | 39.2   | 46.5   | 53.9   | 61.2   | 56.3   | 53.9   |
| 77.5° | 4.9    | 4.9    | 9.8    | 17.1   | 24.5   | 31.8   | 44.1   | 51.4   | 56.3   | 51.4   | 46.5   |
| 80°   | 2.4    | 2.4    | 7.3    | 14.7   | 22.0   | 29.4   | 36.7   | 44.1   | 46.5   | 41.6   | 36.7   |
| 82.5° | 2.4    | 2.4    | 7.3    | 14.7   | 22.0   | 26.9   | 39.2   | 44.1   | 49.0   | 44.1   | 36.7   |
| 85°   | 0.0    | 2.4    | 7.3    | 14.7   | 19.6   | 22.0   | 22.0   | 14.7   | 12.2   | 7.3    | 7.3    |
| 87.5° | 0.0    | 0.0    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)