

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: P532043

Luminaire Tested: **GLAN-SA7B-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532043  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-827-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17485 lumens  
Efficiency: N/A  
Efficacy: 61.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

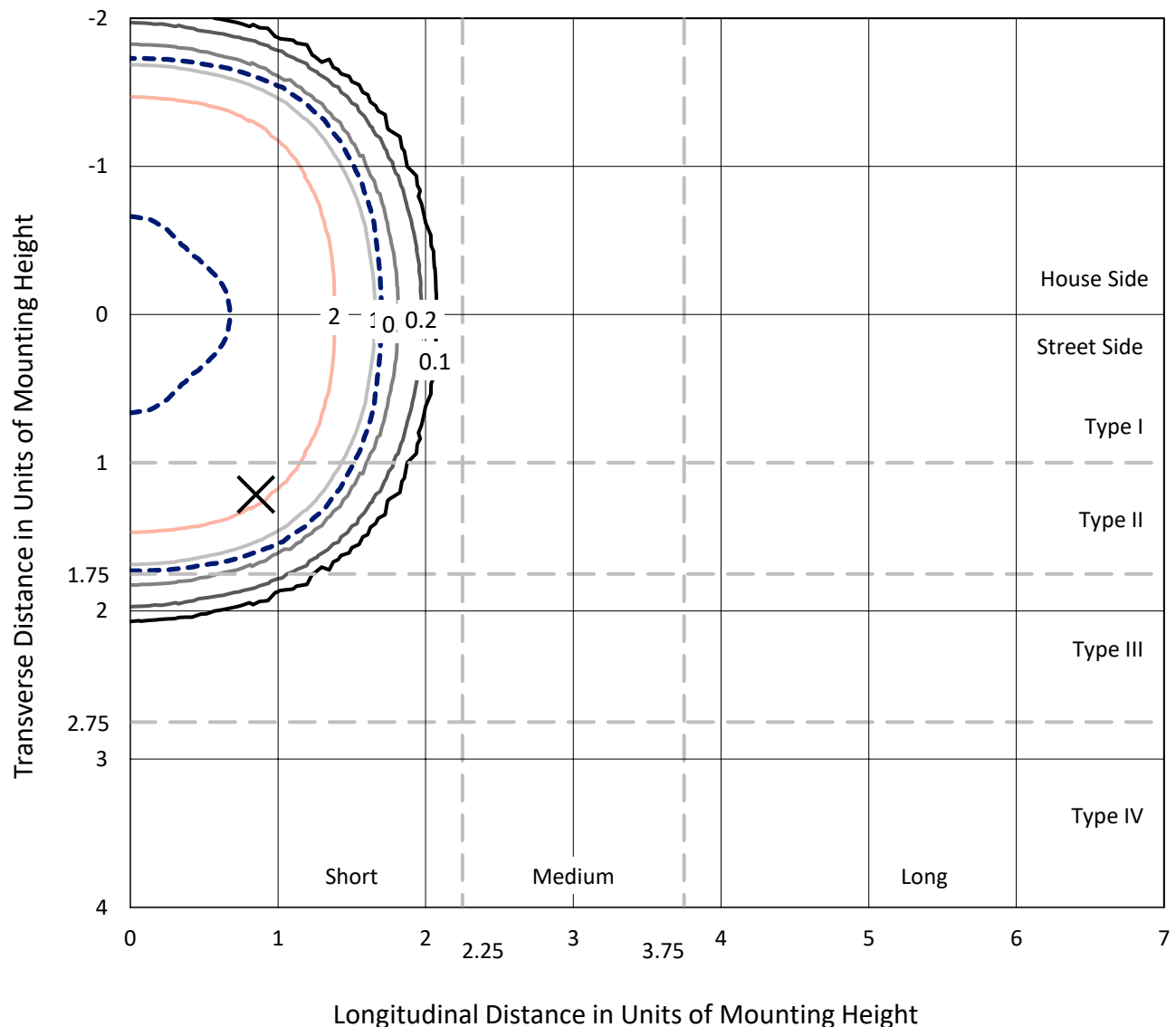
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

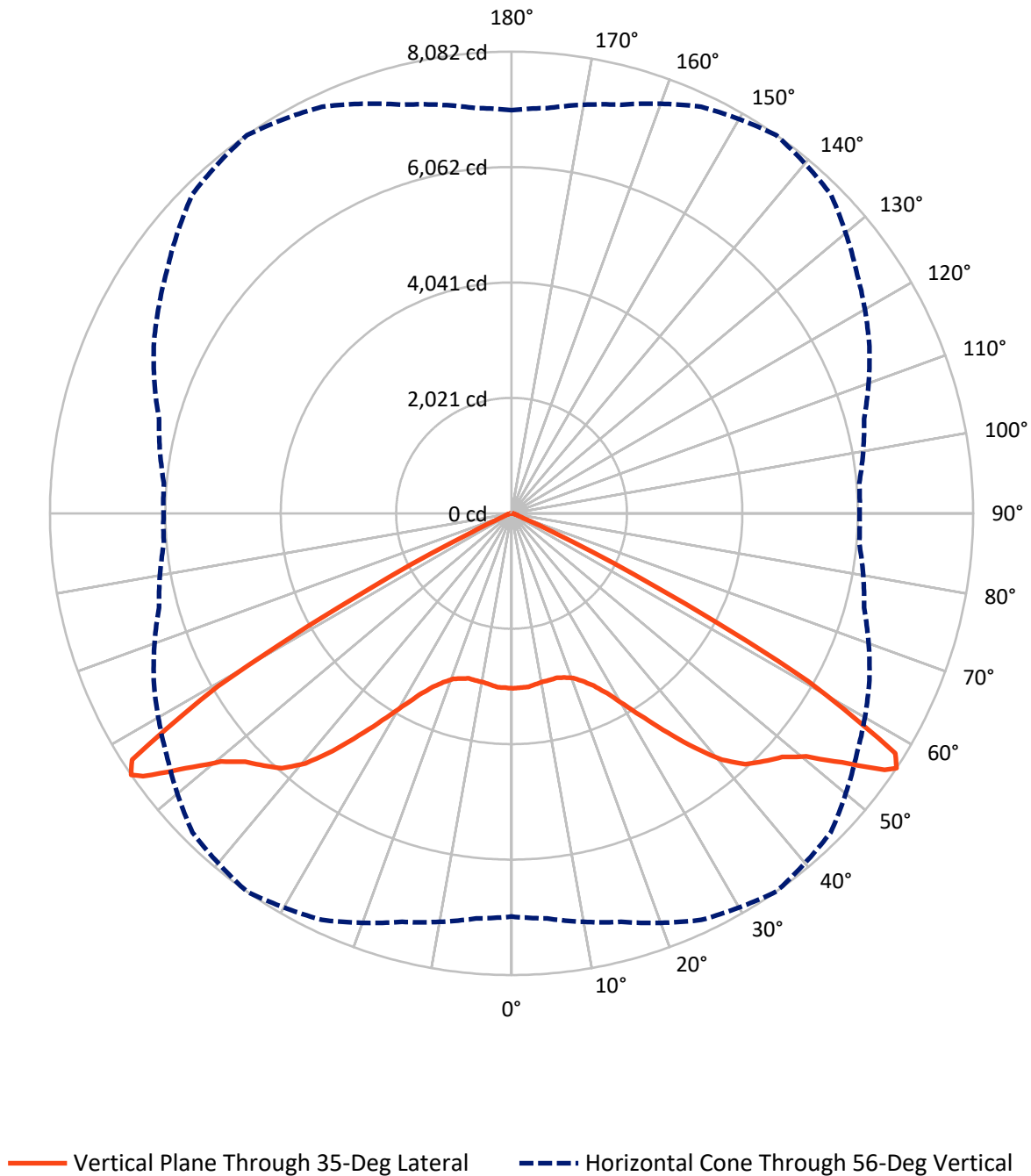
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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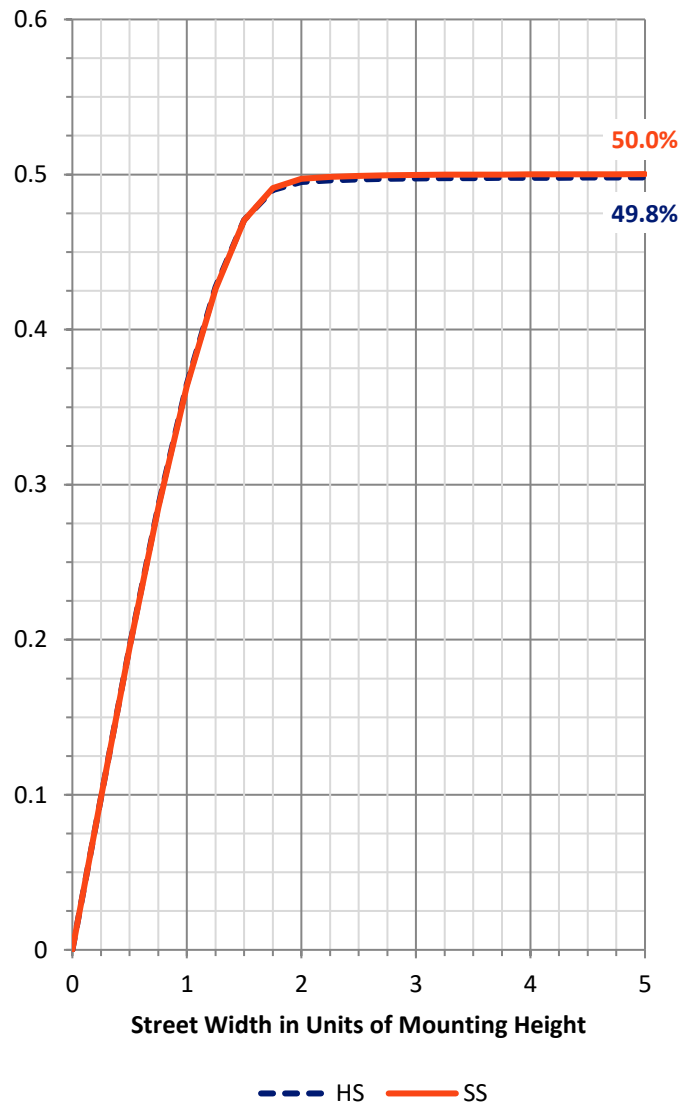
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8742.5   | 0.0    | 8742.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8742.5   | 0.0    | 8742.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17485.0  | 0.0    | 17485.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 287.9   | 1.6       |
| 10°-20°   | 840.7   | 4.8       |
| 20°-30°   | 1522.3  | 8.7       |
| 30°-40°   | 2822.9  | 16.1      |
| 40°-50°   | 4633.6  | 26.5      |
| 50°-60°   | 5969.5  | 34.1      |
| 60°-70°   | 1315.6  | 7.5       |
| 70°-80°   | 76.3    | 0.4       |
| 80°-90°   | 16.1    | 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°    | 17485.0 | 100.0     |
| 0°-180°   | 17485.0 | 100.0     |

**Coefficient of Utilization**



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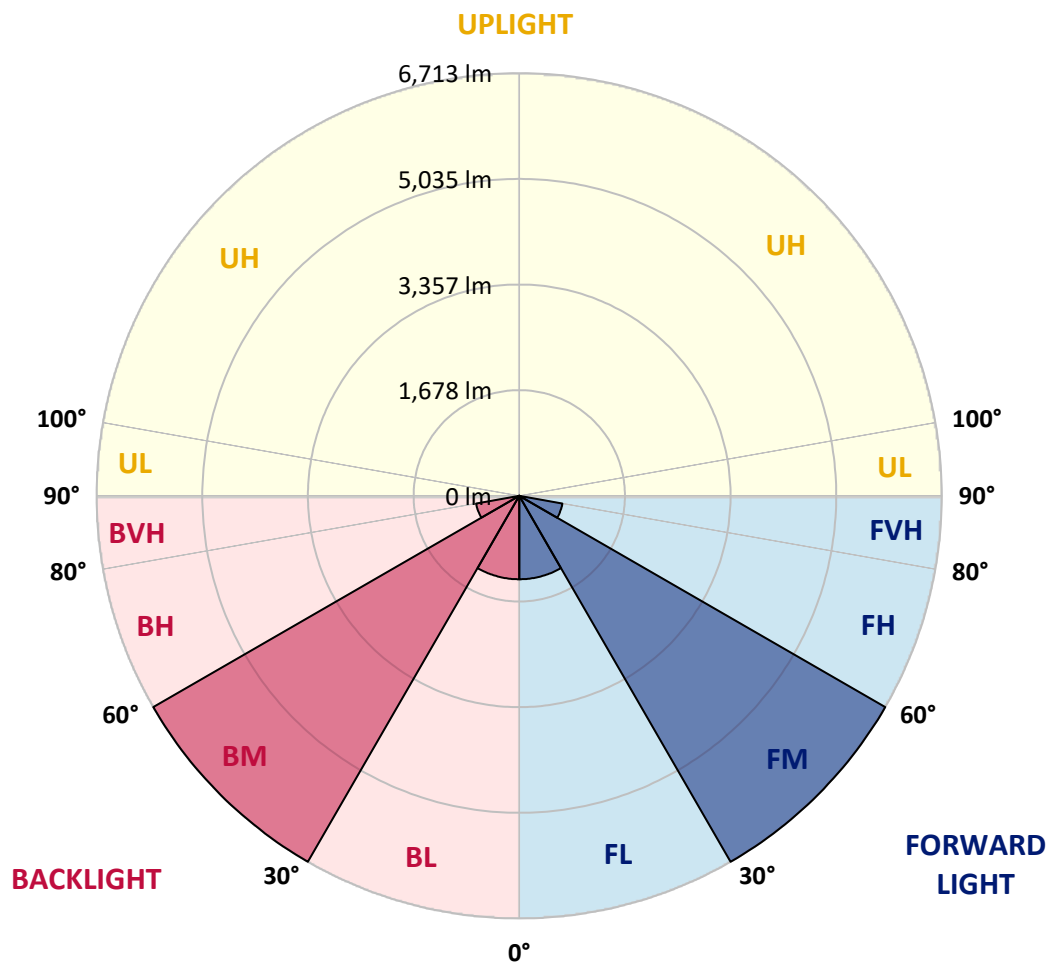
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1325.5 | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 6713.0 | 38.4      |                         |      |         |
| FH   | (60°-80°)   | 696.0  | 4.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 8.0    | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 1325.5 | 7.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6713.0 | 38.4      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 696.0  | 4.0       | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 8.0    | 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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 |
| 2.5°  | 3070.1 | 3070.1 | 3073.3 | 3076.4 | 3054.2 | 3044.7 | 3047.9 | 3041.6 | 3038.4 | 3047.9 | 3047.9 |
| 5°    | 3060.6 | 3060.6 | 3051.1 | 3054.2 | 3054.2 | 3025.7 | 3025.7 | 3032.1 | 3032.1 | 3013.1 | 3006.7 |
| 7.5°  | 3035.2 | 3028.9 | 3016.2 | 3032.1 | 3022.6 | 3022.6 | 3000.4 | 2984.5 | 2978.2 | 2990.9 | 2978.2 |
| 10°   | 2981.4 | 2984.5 | 2997.2 | 3003.6 | 2997.2 | 3016.2 | 2978.2 | 2956.0 | 2933.8 | 2924.3 | 2924.3 |
| 12.5° | 2956.0 | 2975.0 | 2956.0 | 2971.9 | 2994.0 | 2978.2 | 2956.0 | 2940.2 | 2908.5 | 2895.8 | 2895.8 |
| 15°   | 2952.9 | 2965.5 | 2971.9 | 2994.0 | 2984.5 | 2990.9 | 2946.5 | 2927.5 | 2880.0 | 2857.8 | 2848.3 |
| 17.5° | 2949.7 | 2965.5 | 2975.0 | 3016.2 | 3022.6 | 3025.7 | 2990.9 | 2933.8 | 2892.7 | 2870.5 | 2848.3 |
| 20°   | 2984.5 | 2990.9 | 3009.9 | 3051.1 | 3076.4 | 3120.8 | 3057.4 | 2997.2 | 2908.5 | 2883.2 | 2873.6 |
| 22.5° | 3028.9 | 3060.6 | 3079.6 | 3123.9 | 3190.5 | 3228.5 | 3146.1 | 3070.1 | 2978.2 | 2946.5 | 2908.5 |
| 25°   | 3171.5 | 3165.1 | 3196.8 | 3288.7 | 3342.6 | 3371.1 | 3304.5 | 3193.6 | 3073.3 | 3035.2 | 3041.6 |
| 27.5° | 3348.9 | 3355.2 | 3383.7 | 3485.1 | 3564.3 | 3608.7 | 3529.5 | 3383.7 | 3266.5 | 3203.2 | 3196.8 |
| 30°   | 3580.2 | 3573.8 | 3605.5 | 3741.8 | 3884.3 | 3950.9 | 3811.5 | 3640.4 | 3526.3 | 3443.9 | 3463.0 |
| 32.5° | 3824.1 | 3827.3 | 3916.0 | 4039.6 | 4270.9 | 4400.8 | 4175.8 | 3966.7 | 3795.6 | 3738.6 | 3710.1 |
| 35°   | 4185.3 | 4201.2 | 4270.9 | 4461.0 | 4717.6 | 4885.5 | 4638.4 | 4388.1 | 4191.7 | 4087.1 | 4099.8 |
| 37.5° | 4632.1 | 4616.2 | 4733.4 | 4939.4 | 5208.7 | 5332.3 | 5123.1 | 4838.0 | 4638.4 | 4568.7 | 4613.0 |
| 40°   | 5107.3 | 5123.1 | 5183.3 | 5370.3 | 5671.3 | 5753.6 | 5443.1 | 5287.9 | 5113.6 | 5078.8 | 5132.6 |
| 42.5° | 5582.5 | 5573.0 | 5617.4 | 5785.3 | 6003.9 | 5946.9 | 5763.1 | 5671.3 | 5547.7 | 5478.0 | 5550.9 |
| 45°   | 5931.1 | 5915.2 | 5997.6 | 6111.7 | 6190.9 | 6083.1 | 6000.8 | 5969.1 | 5905.7 | 5829.7 | 5896.2 |
| 47.5° | 6270.1 | 6257.4 | 6336.6 | 6368.3 | 6374.6 | 6232.1 | 6247.9 | 6304.9 | 6146.5 | 5988.1 | 6064.1 |
| 50°   | 6558.4 | 6536.2 | 6634.4 | 6704.1 | 6688.3 | 6460.2 | 6517.2 | 6460.2 | 6213.0 | 6026.1 | 5997.6 |
| 52.5° | 7040.0 | 7049.5 | 7154.0 | 7280.8 | 7242.7 | 7052.6 | 6970.3 | 6710.5 | 6393.6 | 6225.7 | 6127.5 |
| 55°   | 7344.1 | 7296.6 | 7477.2 | 7879.6 | 7923.9 | 7727.5 | 7363.1 | 6979.8 | 6504.5 | 6298.6 | 6273.2 |
| 56°   | 7059.0 | 7119.2 | 7404.3 | 7854.2 | 8082.3 | 7901.7 | 7372.6 | 6913.2 | 6390.5 | 6111.7 | 6092.6 |
| 57.5° | 6333.4 | 6301.8 | 6688.3 | 7302.9 | 7923.9 | 7847.9 | 7112.8 | 6438.0 | 5829.7 | 5516.0 | 5478.0 |
| 60°   | 3941.4 | 4033.2 | 4372.3 | 5132.6 | 5962.7 | 6000.8 | 5272.1 | 4692.3 | 3982.6 | 3703.7 | 3770.3 |
| 62.5° | 1543.0 | 1463.8 | 1676.0 | 2243.2 | 2813.5 | 2940.2 | 2664.5 | 2214.6 | 1818.6 | 1543.0 | 1524.0 |
| 65°   | 358.0  | 348.5  | 392.9  | 541.8  | 757.2  | 877.6  | 833.3  | 598.8  | 440.4  | 418.2  | 386.5  |
| 67.5° | 202.8  | 202.8  | 193.3  | 193.3  | 212.3  | 224.9  | 215.4  | 212.3  | 221.8  | 231.3  | 228.1  |
| 70°   | 142.6  | 139.4  | 133.1  | 136.2  | 129.9  | 129.9  | 139.4  | 155.2  | 167.9  | 167.9  | 171.1  |
| 72.5° | 85.5   | 85.5   | 85.5   | 95.0   | 95.0   | 95.0   | 104.6  | 117.2  | 120.4  | 117.2  | 114.1  |
| 75°   | 38.0   | 38.0   | 44.4   | 53.9   | 60.2   | 63.4   | 72.9   | 79.2   | 85.5   | 79.2   | 72.9   |
| 77.5° | 9.5    | 9.5    | 15.8   | 22.2   | 28.5   | 34.9   | 47.5   | 57.0   | 60.2   | 57.0   | 47.5   |
| 80°   | 3.2    | 3.2    | 6.3    | 15.8   | 28.5   | 34.9   | 47.5   | 50.7   | 53.9   | 47.5   | 38.0   |
| 82.5° | 3.2    | 3.2    | 6.3    | 15.8   | 22.2   | 28.5   | 38.0   | 44.4   | 47.5   | 41.2   | 38.0   |
| 85°   | 0.0    | 3.2    | 6.3    | 12.7   | 19.0   | 25.3   | 25.3   | 19.0   | 15.8   | 9.5    | 12.7   |
| 87.5° | 0.0    | 0.0    | 3.2    | 3.2    | 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)