

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: P530639

Luminaire Tested: **GLAN-SA5D-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530639  
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-SA5D-827-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1200mA 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: 17091 lumens  
Efficiency: N/A  
Efficacy: 55.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

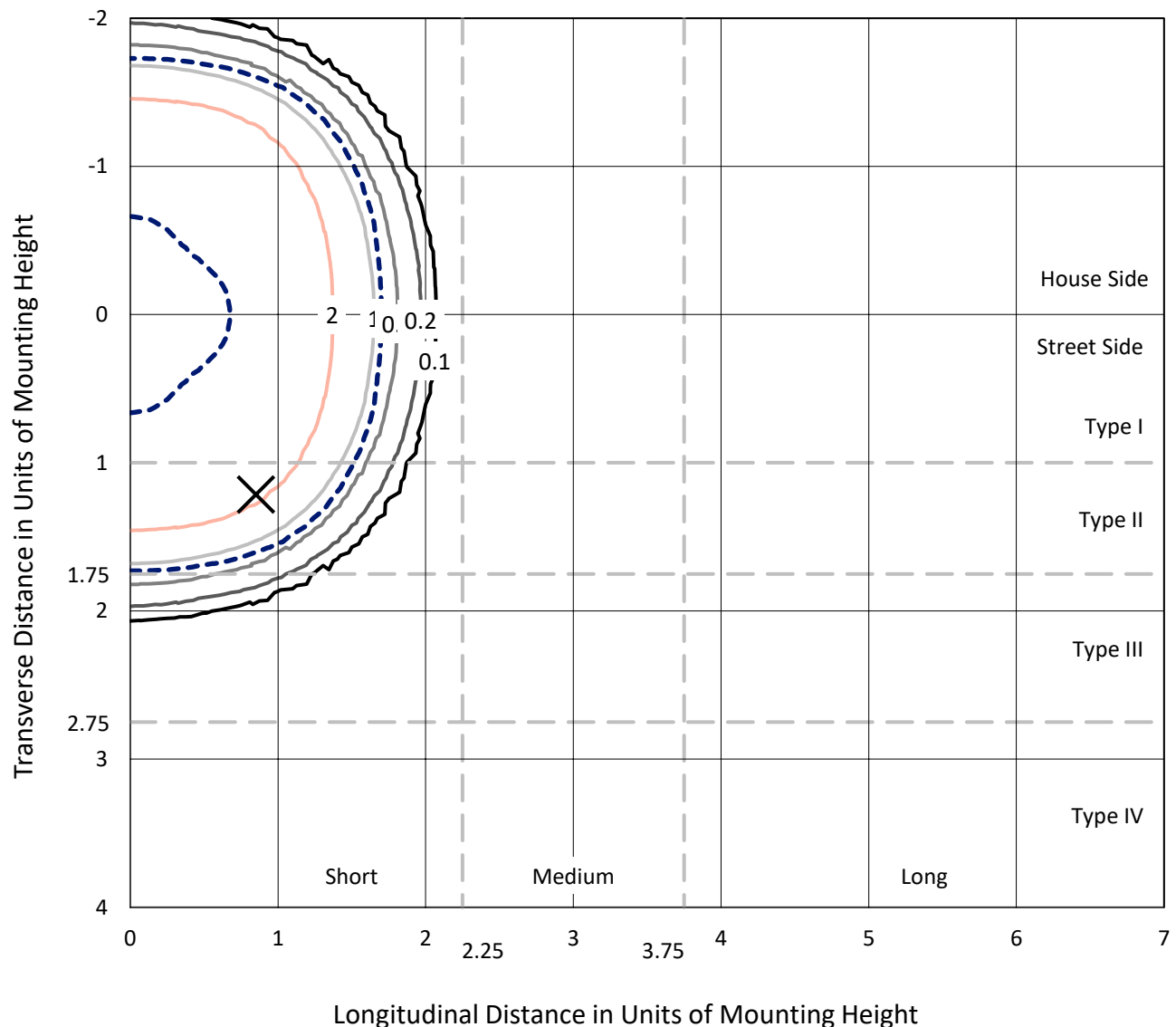
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

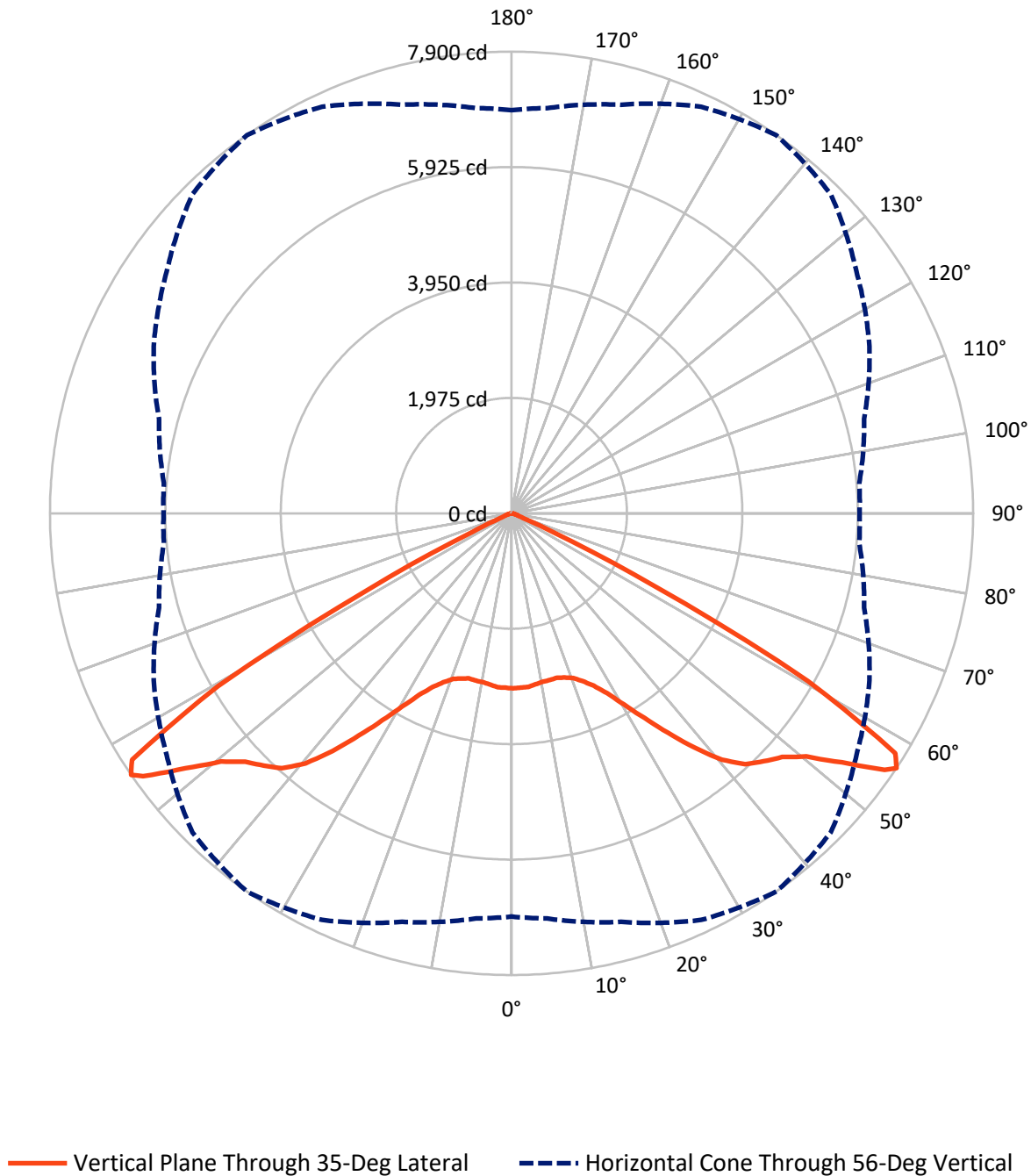
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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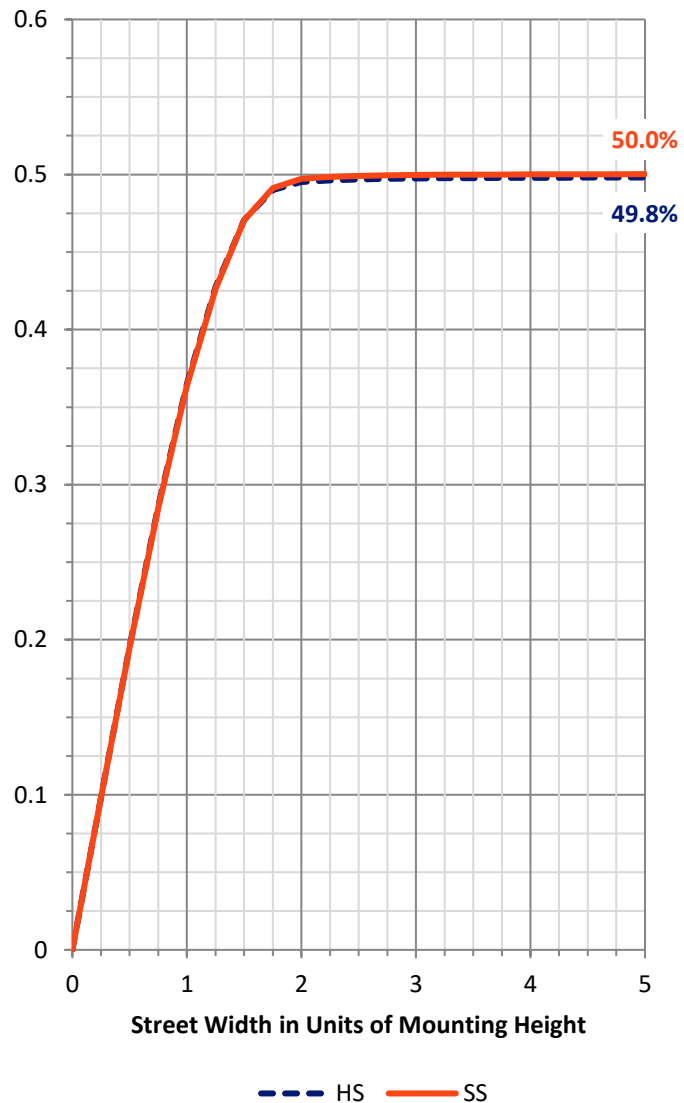
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8545.5   | 0.0    | 8545.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8545.5   | 0.0    | 8545.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17091.0  | 0.0    | 17091.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 281.5   | 1.6       |
| 10°-20°   | 821.7   | 4.8       |
| 20°-30°   | 1488.0  | 8.7       |
| 30°-40°   | 2759.3  | 16.1      |
| 40°-50°   | 4529.2  | 26.5      |
| 50°-60°   | 5835.0  | 34.1      |
| 60°-70°   | 1286.0  | 7.5       |
| 70°-80°   | 74.6    | 0.4       |
| 80°-90°   | 15.7    | 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°    | 17091.0 | 100.0     |
| 0°-180°   | 17091.0 | 100.0     |

**Coefficient of Utilization**



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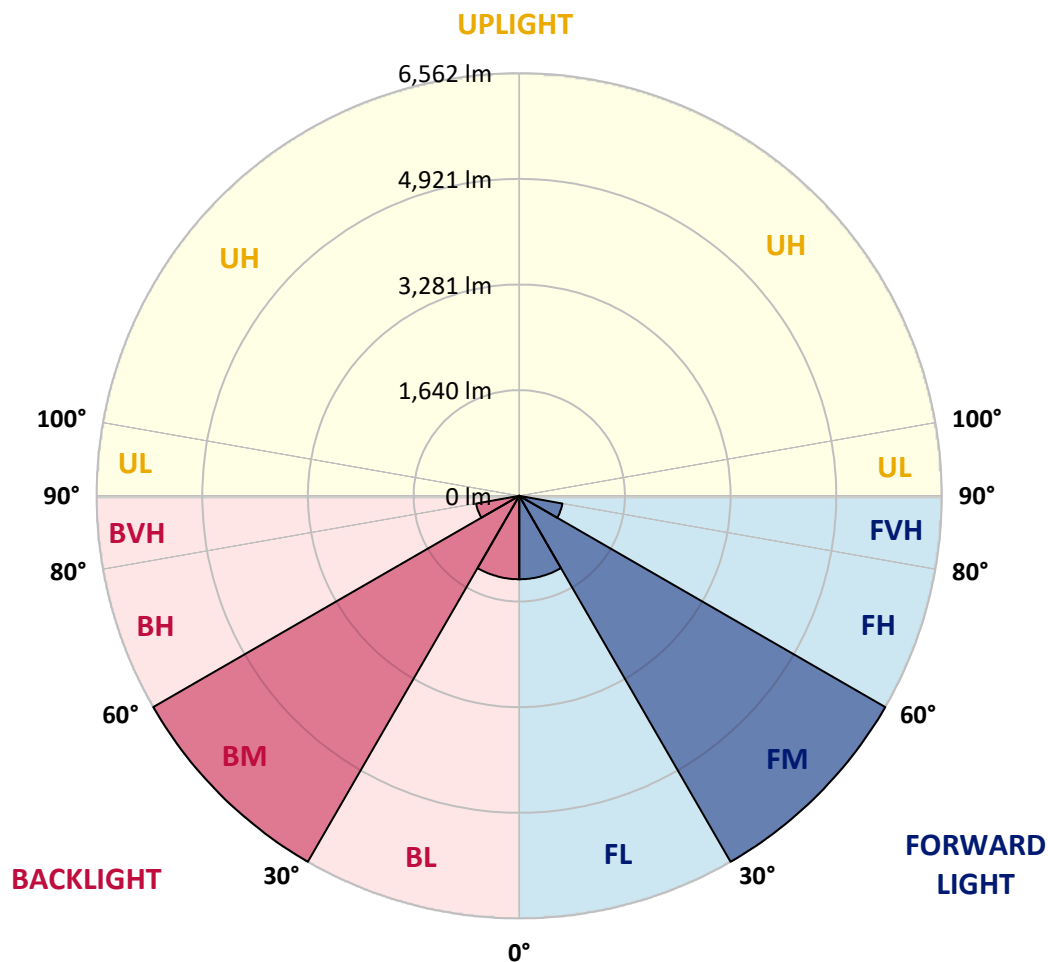
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1295.6 | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 6561.8 | 38.4      |                         |      |         |
| FH   | (60°-80°)   | 680.3  | 4.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 7.9    | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 1295.6 | 7.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6561.8 | 38.4      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 680.3  | 4.0       | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 7.9    | 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°    | 2994.7 | 2994.7 | 2994.7 | 2994.7 | 2994.7 | 2994.7 | 2994.7 | 2994.7 | 2994.7 | 2994.7 | 2994.7 |
| 2.5°  | 3000.9 | 3000.9 | 3004.0 | 3007.1 | 2985.4 | 2976.1 | 2979.2 | 2973.0 | 2969.9 | 2979.2 | 2979.2 |
| 5°    | 2991.6 | 2991.6 | 2982.3 | 2985.4 | 2985.4 | 2957.5 | 2957.5 | 2963.7 | 2963.7 | 2945.2 | 2939.0 |
| 7.5°  | 2966.8 | 2960.6 | 2948.3 | 2963.7 | 2954.5 | 2954.5 | 2932.8 | 2917.3 | 2911.1 | 2923.5 | 2911.1 |
| 10°   | 2914.2 | 2917.3 | 2929.7 | 2935.9 | 2929.7 | 2948.3 | 2911.1 | 2889.4 | 2867.7 | 2858.4 | 2858.4 |
| 12.5° | 2889.4 | 2908.0 | 2889.4 | 2904.9 | 2926.6 | 2911.1 | 2889.4 | 2873.9 | 2843.0 | 2830.6 | 2830.6 |
| 15°   | 2886.3 | 2898.7 | 2904.9 | 2926.6 | 2917.3 | 2923.5 | 2880.1 | 2861.5 | 2815.1 | 2793.4 | 2784.1 |
| 17.5° | 2883.2 | 2898.7 | 2908.0 | 2948.3 | 2954.5 | 2957.5 | 2923.5 | 2867.7 | 2827.5 | 2805.8 | 2784.1 |
| 20°   | 2917.3 | 2923.5 | 2942.1 | 2982.3 | 3007.1 | 3050.5 | 2988.5 | 2929.7 | 2843.0 | 2818.2 | 2808.9 |
| 22.5° | 2960.6 | 2991.6 | 3010.2 | 3053.6 | 3118.6 | 3155.8 | 3075.2 | 3000.9 | 2911.1 | 2880.1 | 2843.0 |
| 25°   | 3100.0 | 3093.8 | 3124.8 | 3214.6 | 3267.2 | 3295.1 | 3230.1 | 3121.7 | 3004.0 | 2966.8 | 2973.0 |
| 27.5° | 3273.4 | 3279.6 | 3307.5 | 3406.6 | 3484.0 | 3527.4 | 3450.0 | 3307.5 | 3192.9 | 3131.0 | 3124.8 |
| 30°   | 3499.5 | 3493.3 | 3524.3 | 3657.4 | 3796.8 | 3861.8 | 3725.6 | 3558.3 | 3446.9 | 3366.3 | 3384.9 |
| 32.5° | 3738.0 | 3741.1 | 3827.8 | 3948.6 | 4174.6 | 4301.6 | 4081.7 | 3877.3 | 3710.1 | 3654.4 | 3626.5 |
| 35°   | 4091.0 | 4106.5 | 4174.6 | 4360.4 | 4611.3 | 4775.4 | 4533.9 | 4289.2 | 4097.2 | 3995.0 | 4007.4 |
| 37.5° | 4527.7 | 4512.2 | 4626.8 | 4828.1 | 5091.3 | 5212.1 | 5007.7 | 4729.0 | 4533.9 | 4465.7 | 4509.1 |
| 40°   | 4992.2 | 5007.7 | 5066.5 | 5249.3 | 5543.5 | 5624.0 | 5320.5 | 5168.7 | 4998.4 | 4964.3 | 5017.0 |
| 42.5° | 5456.8 | 5447.5 | 5490.8 | 5655.0 | 5868.6 | 5812.9 | 5633.3 | 5543.5 | 5422.7 | 5354.6 | 5425.8 |
| 45°   | 5797.4 | 5781.9 | 5862.4 | 5973.9 | 6051.4 | 5946.1 | 5865.5 | 5834.6 | 5772.6 | 5698.3 | 5763.3 |
| 47.5° | 6128.8 | 6116.4 | 6193.8 | 6224.8 | 6231.0 | 6091.6 | 6107.1 | 6162.8 | 6008.0 | 5853.2 | 5927.5 |
| 50°   | 6410.6 | 6388.9 | 6484.9 | 6553.1 | 6537.6 | 6314.6 | 6370.3 | 6314.6 | 6073.0 | 5890.3 | 5862.4 |
| 52.5° | 6881.3 | 6890.6 | 6992.8 | 7116.7 | 7079.5 | 6893.7 | 6813.2 | 6559.3 | 6249.6 | 6085.4 | 5989.4 |
| 55°   | 7178.6 | 7132.2 | 7308.7 | 7702.0 | 7745.4 | 7553.4 | 7197.2 | 6822.5 | 6358.0 | 6156.7 | 6131.9 |
| 56°   | 6899.9 | 6958.8 | 7237.5 | 7677.2 | 7900.2 | 7723.7 | 7206.5 | 6757.5 | 6246.5 | 5973.9 | 5955.4 |
| 57.5° | 6190.7 | 6159.8 | 6537.6 | 7138.4 | 7745.4 | 7671.0 | 6952.6 | 6292.9 | 5698.3 | 5391.7 | 5354.6 |
| 60°   | 3852.6 | 3942.4 | 4273.7 | 5017.0 | 5828.4 | 5865.5 | 5153.3 | 4586.5 | 3892.8 | 3620.3 | 3685.3 |
| 62.5° | 1508.2 | 1430.8 | 1638.3 | 2192.6 | 2750.1 | 2873.9 | 2604.5 | 2164.7 | 1777.6 | 1508.2 | 1489.6 |
| 65°   | 350.0  | 340.7  | 384.0  | 529.6  | 740.2  | 857.8  | 814.5  | 585.3  | 430.5  | 408.8  | 377.8  |
| 67.5° | 198.2  | 198.2  | 188.9  | 188.9  | 207.5  | 219.9  | 210.6  | 207.5  | 216.8  | 226.1  | 223.0  |
| 70°   | 139.4  | 136.3  | 130.1  | 133.2  | 127.0  | 127.0  | 136.3  | 151.7  | 164.1  | 164.1  | 167.2  |
| 72.5° | 83.6   | 83.6   | 83.6   | 92.9   | 92.9   | 92.9   | 102.2  | 114.6  | 117.7  | 114.6  | 111.5  |
| 75°   | 37.2   | 37.2   | 43.4   | 52.6   | 58.8   | 61.9   | 71.2   | 77.4   | 83.6   | 77.4   | 71.2   |
| 77.5° | 9.3    | 9.3    | 15.5   | 21.7   | 27.9   | 34.1   | 46.5   | 55.7   | 58.8   | 55.7   | 46.5   |
| 80°   | 3.1    | 3.1    | 6.2    | 15.5   | 27.9   | 34.1   | 46.5   | 49.6   | 52.6   | 46.5   | 37.2   |
| 82.5° | 3.1    | 3.1    | 6.2    | 15.5   | 21.7   | 27.9   | 37.2   | 43.4   | 46.5   | 40.3   | 37.2   |
| 85°   | 0.0    | 3.1    | 6.2    | 12.4   | 18.6   | 24.8   | 24.8   | 18.6   | 15.5   | 9.3    | 12.4   |
| 87.5° | 0.0    | 0.0    | 3.1    | 3.1    | 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)