

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: P530413

Luminaire Tested: **GLAN-SA5C-827-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5C-827-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16726 lumens  
Efficiency: N/A  
Efficacy: 62.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

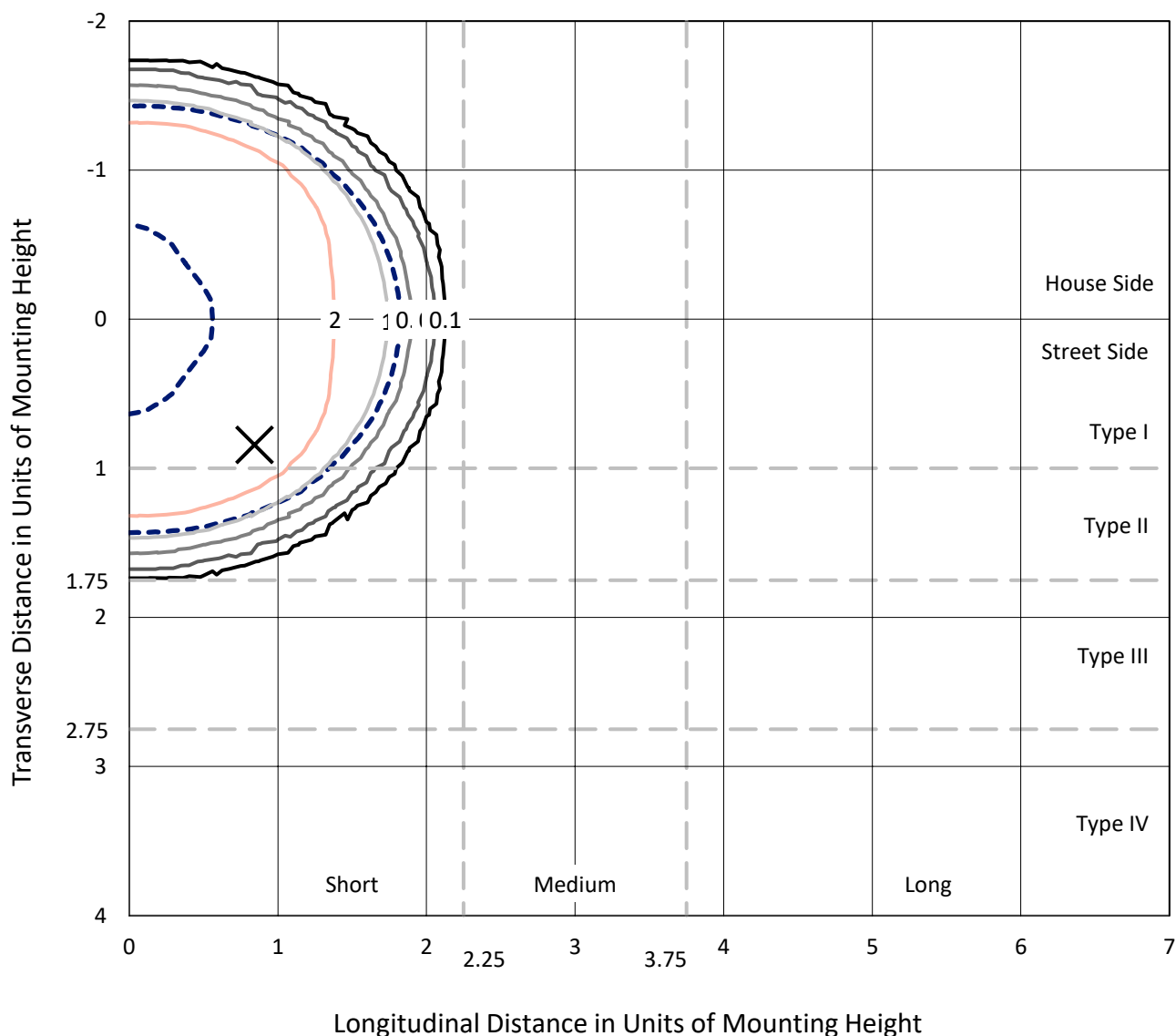
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

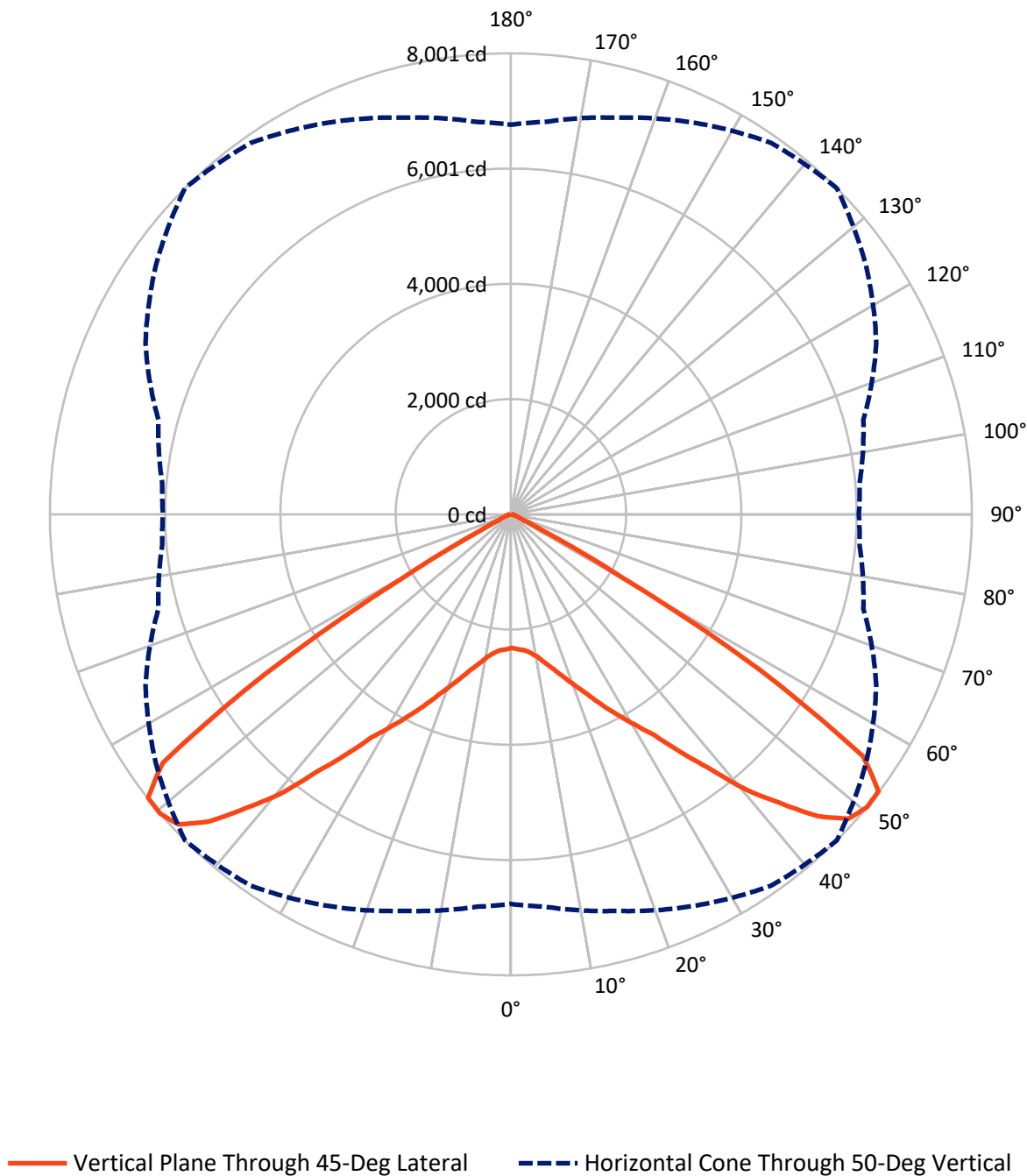
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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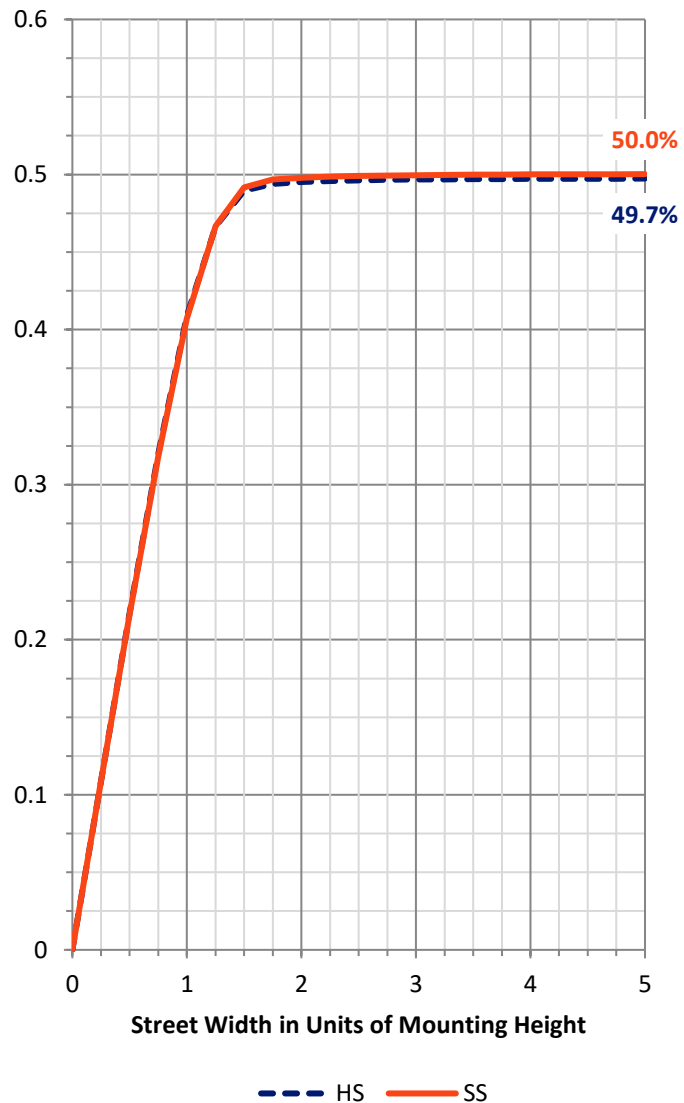
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8363.0   | 0.0    | 8363.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8363.0   | 0.0    | 8363.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16726.0  | 0.0    | 16726.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 230.7   | 1.4       |
| 10°-20°   | 795.1   | 4.8       |
| 20°-30°   | 1623.9  | 9.7       |
| 30°-40°   | 3096.8  | 18.5      |
| 40°-50°   | 5218.5  | 31.2      |
| 50°-60°   | 4976.8  | 29.8      |
| 60°-70°   | 694.7   | 4.2       |
| 70°-80°   | 66.4    | 0.4       |
| 80°-90°   | 23.0    | 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°    | 16726.0 | 100.0     |
| 0°-180°   | 16726.0 | 100.0     |

**Coefficient of Utilization**



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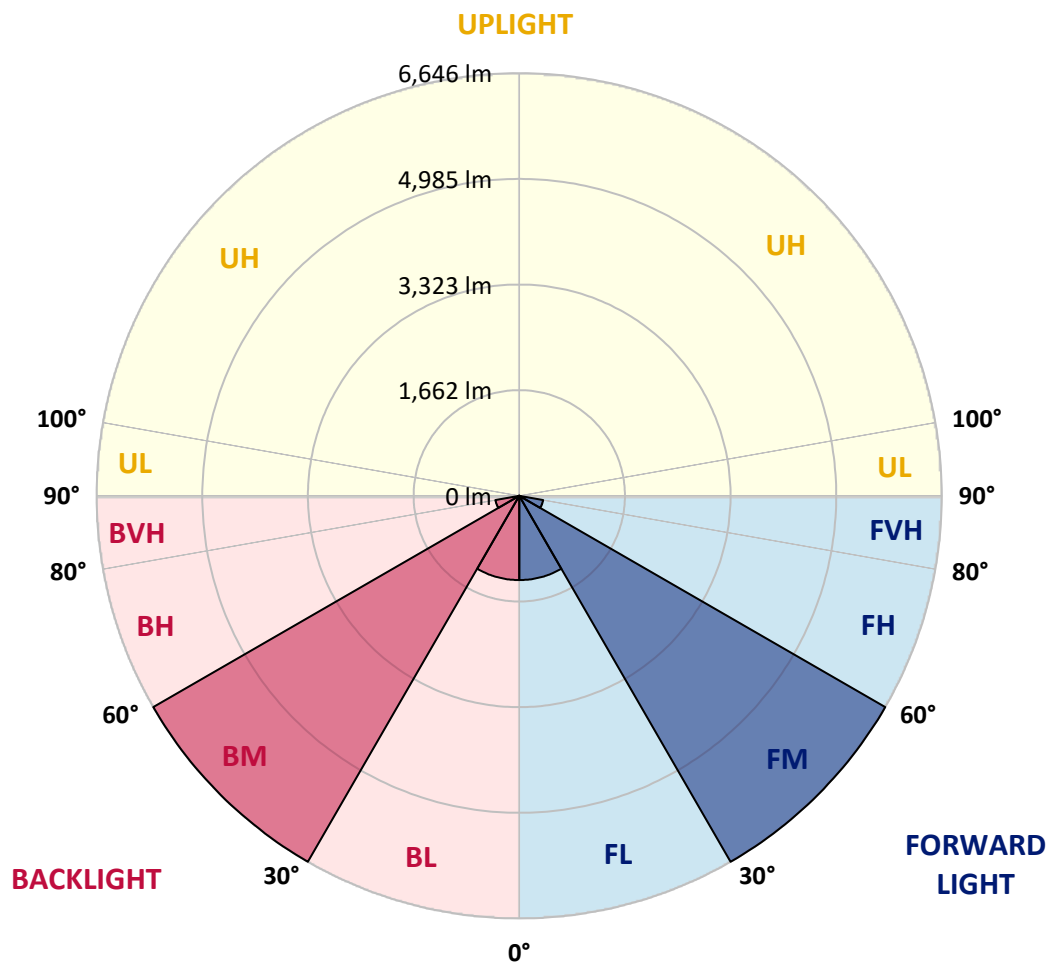
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1324.9 | 7.9       |                         |      |        |
| FM   | (30°-60°)   | 6646.1 | 39.7      |                         |      |        |
| FH   | (60°-80°)   | 380.6  | 2.3       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 11.5   | 0.1       |                         |      | G1/100 |
| BL   | (0°-30°)    | 1324.9 | 7.9       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 6646.1 | 39.7      | B4/8500                 |      |        |
| BH   | (60°-80°)   | 380.6  | 2.3       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 11.5   | 0.1       |                         |      | G1/100 |
| 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°    | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 |
| 2.5°  | 2310.4 | 2310.4 | 2307.6 | 2330.1 | 2318.9 | 2344.2 | 2341.4 | 2349.8 | 2358.3 | 2355.5 | 2378.0 |
| 5°    | 2290.7 | 2287.9 | 2287.9 | 2313.2 | 2338.6 | 2366.7 | 2392.0 | 2408.9 | 2437.1 | 2437.1 | 2465.2 |
| 7.5°  | 2310.4 | 2296.4 | 2316.1 | 2327.3 | 2375.2 | 2423.0 | 2465.2 | 2499.0 | 2563.7 | 2586.2 | 2577.8 |
| 10°   | 2316.1 | 2332.9 | 2347.0 | 2380.8 | 2439.9 | 2513.1 | 2549.6 | 2634.1 | 2707.2 | 2757.9 | 2769.1 |
| 12.5° | 2352.6 | 2378.0 | 2417.4 | 2499.0 | 2552.5 | 2648.1 | 2698.8 | 2780.4 | 2881.7 | 2938.0 | 2977.4 |
| 15°   | 2423.0 | 2431.4 | 2482.1 | 2586.2 | 2701.6 | 2788.8 | 2867.6 | 2926.7 | 3025.2 | 3090.0 | 3092.8 |
| 17.5° | 2513.1 | 2549.6 | 2620.0 | 2718.5 | 2839.5 | 2968.9 | 3030.9 | 3095.6 | 3132.2 | 3219.4 | 3239.1 |
| 20°   | 2693.2 | 2698.8 | 2766.3 | 2895.8 | 3047.7 | 3165.9 | 3211.0 | 3244.7 | 3230.7 | 3320.7 | 3337.6 |
| 22.5° | 2862.0 | 2867.6 | 2952.1 | 3126.5 | 3289.8 | 3391.1 | 3410.8 | 3391.1 | 3348.9 | 3413.6 | 3419.2 |
| 25°   | 3033.7 | 3084.3 | 3146.2 | 3320.7 | 3523.3 | 3658.4 | 3661.2 | 3607.8 | 3520.5 | 3531.8 | 3559.9 |
| 27.5° | 3301.0 | 3337.6 | 3402.3 | 3562.7 | 3785.1 | 3937.0 | 3911.7 | 3847.0 | 3734.4 | 3742.8 | 3734.4 |
| 30°   | 3613.4 | 3647.2 | 3700.6 | 3906.1 | 4069.3 | 4235.3 | 4271.9 | 4210.0 | 4041.1 | 4004.6 | 4046.8 |
| 32.5° | 3990.5 | 4038.3 | 4136.8 | 4325.4 | 4463.3 | 4564.6 | 4589.9 | 4567.4 | 4409.8 | 4395.7 | 4423.9 |
| 35°   | 4449.2 | 4513.9 | 4604.0 | 4770.0 | 4882.6 | 5065.5 | 5065.5 | 4989.5 | 4846.0 | 4862.9 | 4860.1 |
| 37.5° | 4933.2 | 5028.9 | 5169.6 | 5338.5 | 5490.4 | 5588.9 | 5558.0 | 5493.3 | 5349.7 | 5313.2 | 5349.7 |
| 40°   | 5541.1 | 5588.9 | 5766.2 | 5985.7 | 6171.5 | 6284.0 | 6151.8 | 6011.1 | 5667.7 | 5721.2 | 5819.7 |
| 42.5° | 6095.5 | 6171.5 | 6306.6 | 6548.6 | 6759.6 | 6852.5 | 6694.9 | 6416.3 | 6002.6 | 5960.4 | 6033.6 |
| 45°   | 6568.3 | 6649.9 | 6827.2 | 7173.3 | 7395.6 | 7477.2 | 7128.3 | 6678.0 | 6205.2 | 6098.3 | 6129.3 |
| 47.5° | 6883.5 | 6925.7 | 7173.3 | 7502.6 | 7705.2 | 7890.9 | 7390.0 | 6858.1 | 6300.9 | 6098.3 | 6087.0 |
| 50°   | 6762.4 | 6835.6 | 7125.5 | 7499.8 | 7868.4 | 8000.7 | 7522.3 | 6996.0 | 6331.9 | 6073.0 | 6039.2 |
| 52.5° | 6005.4 | 6132.1 | 6455.7 | 6959.4 | 7516.6 | 7989.4 | 7705.2 | 6951.0 | 6320.6 | 6098.3 | 6149.0 |
| 55°   | 4179.0 | 4181.9 | 4575.8 | 5318.8 | 6303.7 | 7418.2 | 7437.9 | 7001.7 | 6393.8 | 6255.9 | 6258.7 |
| 57.5° | 1680.1 | 1764.5 | 2065.6 | 2811.4 | 3720.3 | 5093.6 | 6056.1 | 6495.1 | 6402.2 | 6368.5 | 6455.7 |
| 60°   | 424.9  | 427.8  | 520.6  | 793.6  | 1308.6 | 2183.8 | 3171.6 | 4291.6 | 4941.7 | 5164.0 | 5195.0 |
| 62.5° | 216.7  | 219.5  | 242.0  | 281.4  | 357.4  | 585.3  | 1041.2 | 1651.9 | 2349.8 | 2704.4 | 2797.3 |
| 65°   | 177.3  | 177.3  | 191.4  | 211.1  | 213.9  | 225.1  | 270.2  | 385.5  | 560.0  | 636.0  | 644.4  |
| 67.5° | 135.1  | 135.1  | 146.3  | 157.6  | 163.2  | 160.4  | 154.8  | 160.4  | 194.2  | 185.7  | 180.1  |
| 70°   | 84.4   | 87.2   | 92.9   | 104.1  | 109.8  | 112.6  | 115.4  | 121.0  | 137.9  | 143.5  | 137.9  |
| 72.5° | 50.7   | 50.7   | 53.5   | 61.9   | 70.4   | 76.0   | 84.4   | 90.1   | 98.5   | 112.6  | 109.8  |
| 75°   | 22.5   | 22.5   | 28.1   | 36.6   | 45.0   | 53.5   | 61.9   | 70.4   | 76.0   | 84.4   | 87.2   |
| 77.5° | 5.6    | 8.4    | 14.1   | 25.3   | 33.8   | 45.0   | 56.3   | 64.7   | 70.4   | 70.4   | 67.5   |
| 80°   | 2.8    | 2.8    | 11.3   | 19.7   | 36.6   | 47.8   | 61.9   | 67.5   | 76.0   | 70.4   | 61.9   |
| 82.5° | 2.8    | 2.8    | 11.3   | 19.7   | 33.8   | 47.8   | 64.7   | 73.2   | 78.8   | 70.4   | 59.1   |
| 85°   | 0.0    | 2.8    | 8.4    | 16.9   | 28.1   | 33.8   | 28.1   | 19.7   | 11.3   | 11.3   | 8.4    |
| 87.5° | 0.0    | 0.0    | 2.8    | 2.8    | 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)