

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: P451873

Luminaire Tested: **GLAN-SA2D-740-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2D-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16235 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

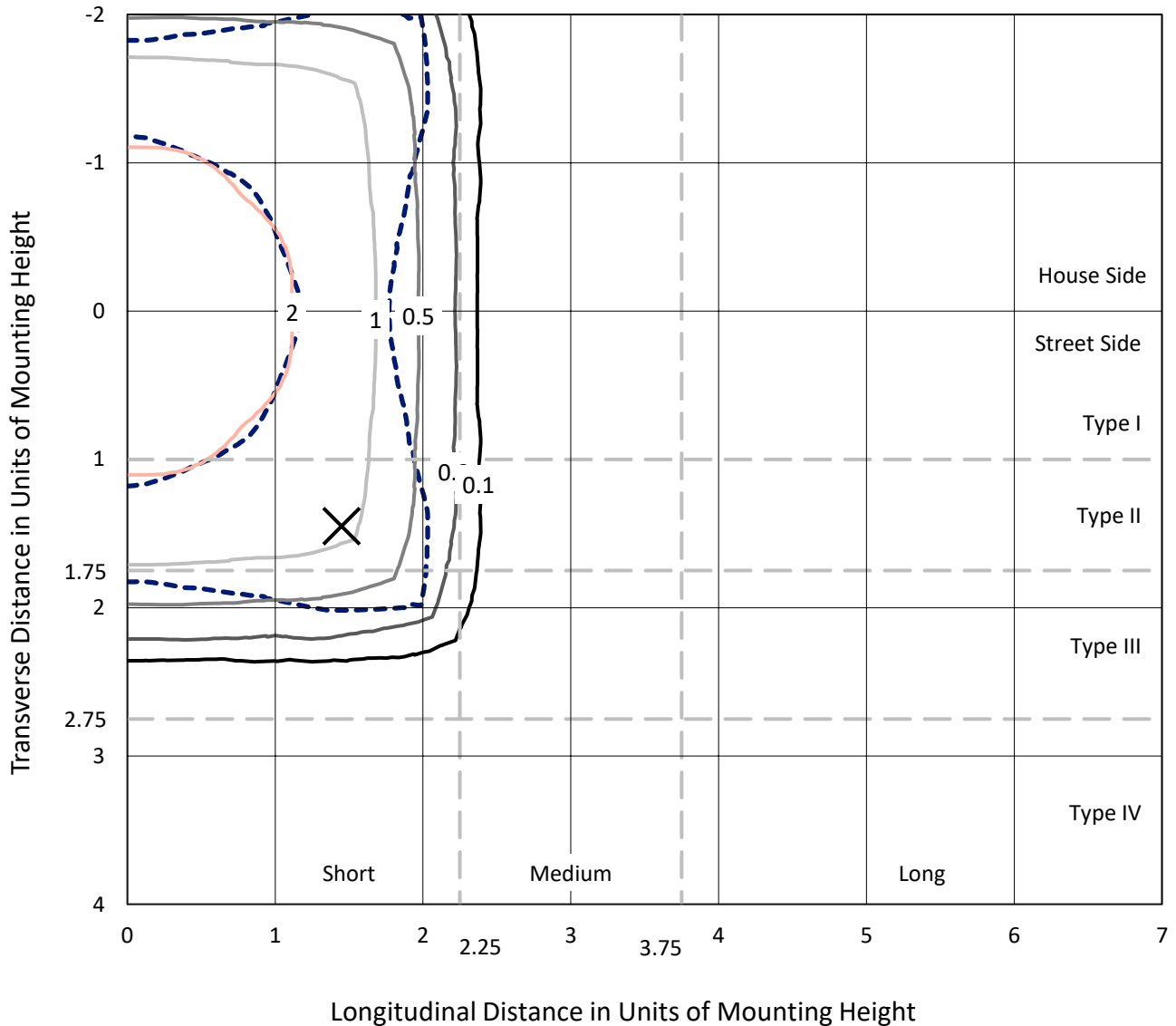
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

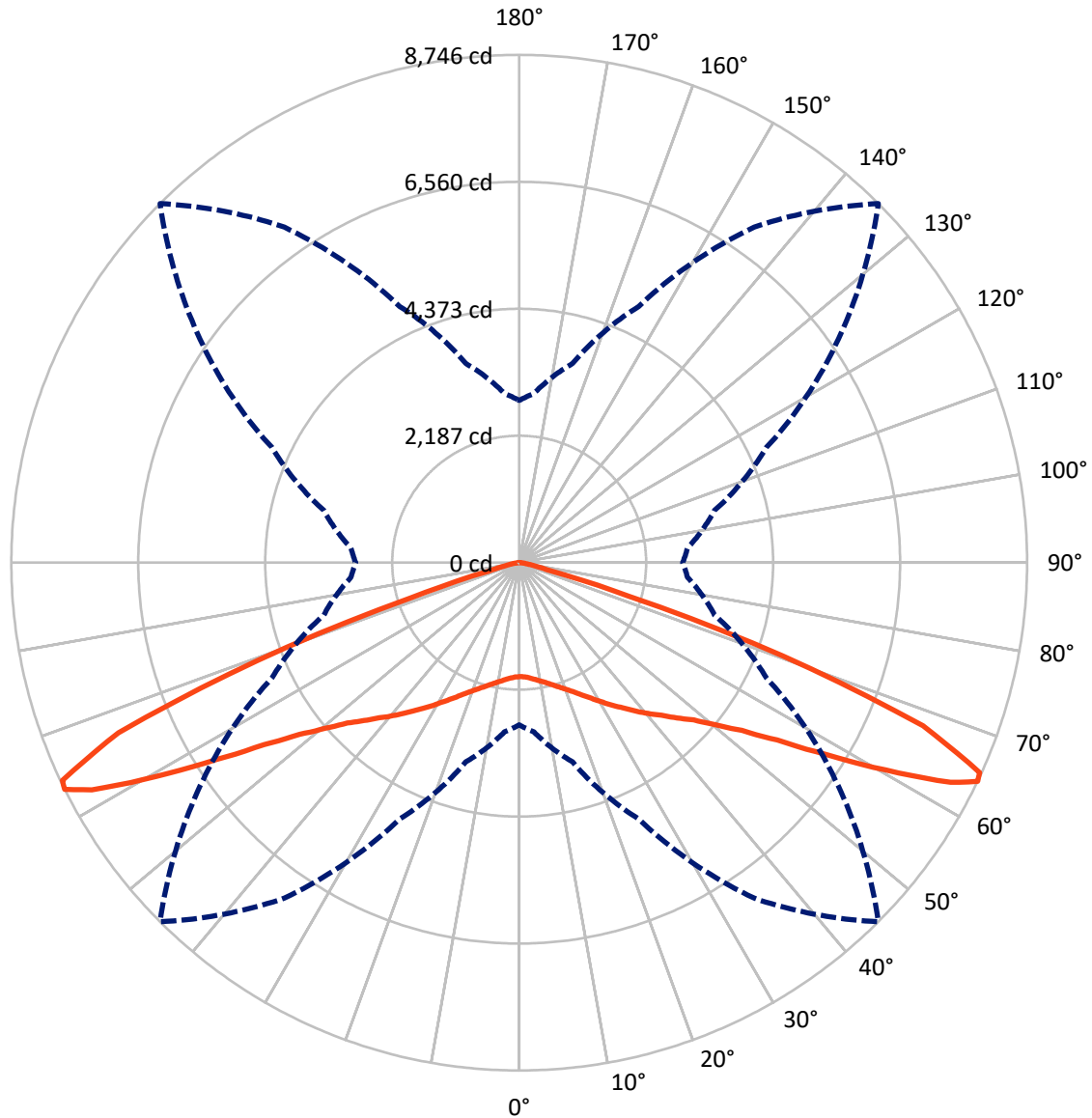
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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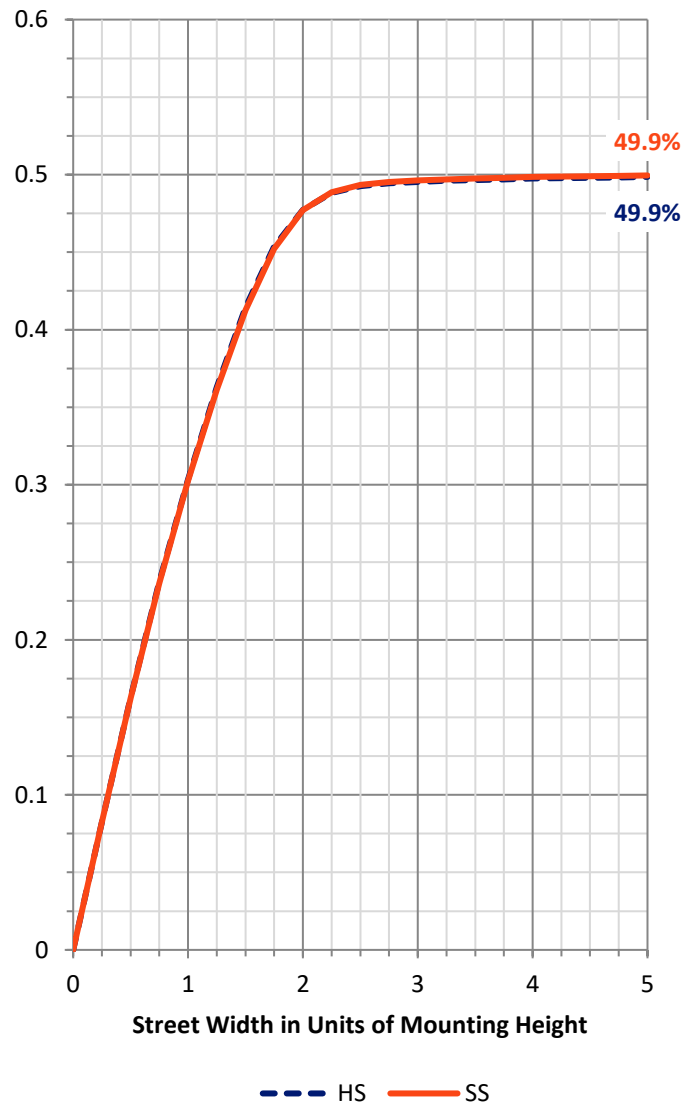
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8117.5   | 0.0    | 8117.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8117.5   | 0.0    | 8117.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16235.0  | 0.0    | 16235.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 192.8   | 1.2       |
| 10°-20°   | 621.8   | 3.8       |
| 20°-30°   | 1175.1  | 7.2       |
| 30°-40°   | 1946.1  | 12.0      |
| 40°-50°   | 3038.2  | 18.7      |
| 50°-60°   | 4696.9  | 28.9      |
| 60°-70°   | 4050.1  | 24.9      |
| 70°-80°   | 459.0   | 2.8       |
| 80°-90°   | 55.0    | 0.3       |
| 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°    | 16235.0 | 100.0     |
| 0°-180°   | 16235.0 | 100.0     |



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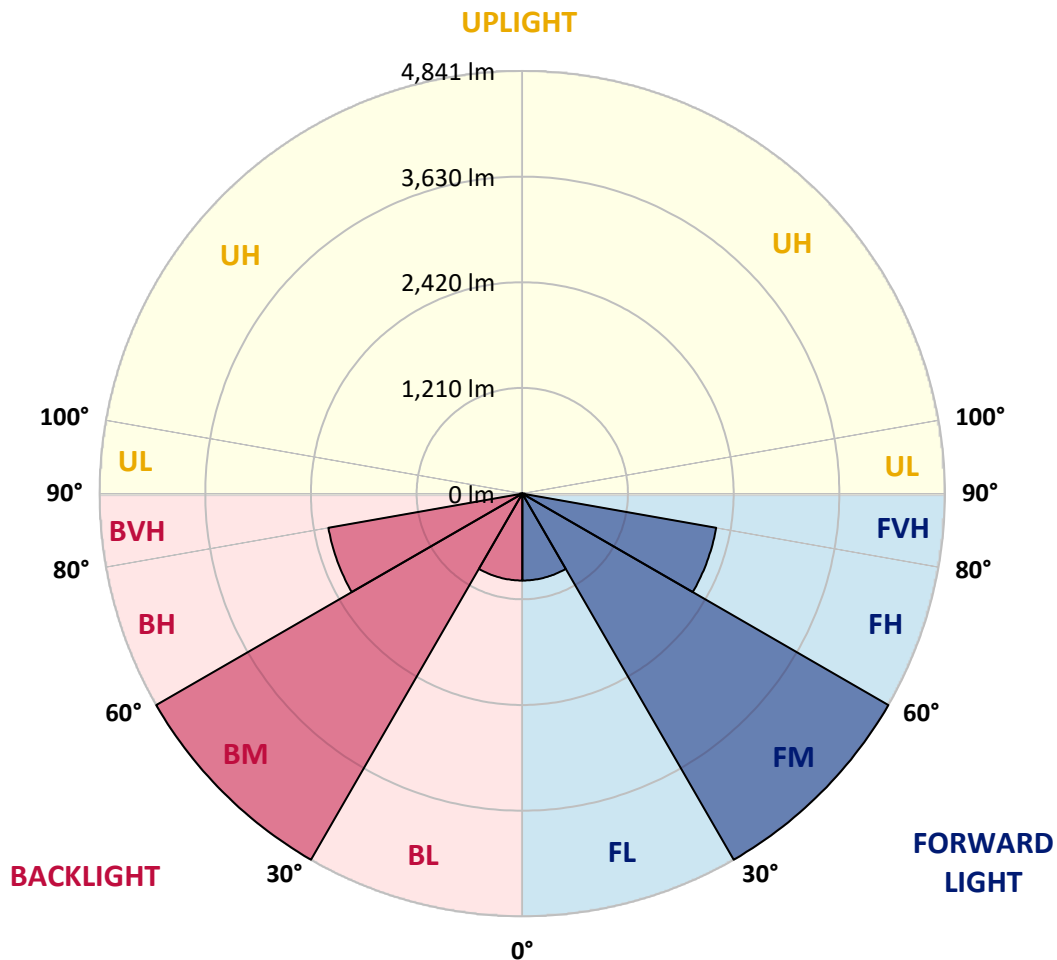
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 994.9  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 4840.6 | 29.8      |                         |      |         |
| FH   | (60°-80°)   | 2254.5 | 13.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 27.5   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 994.9  | 6.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4840.6 | 29.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2254.5 | 13.9      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 27.5   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1962.3 | 1962.3 | 1962.3 | 1962.3 | 1962.3 | 1962.3 | 1962.3 | 1962.3 | 1962.3 | 1962.3 | 1962.3 |
| 2.5°  | 1970.0 | 1974.3 | 1970.9 | 1970.0 | 1969.2 | 1969.2 | 1969.2 | 1970.0 | 1973.5 | 1976.0 | 1974.3 |
| 5°    | 1994.9 | 1998.4 | 1996.7 | 1995.8 | 1994.9 | 1995.8 | 1994.1 | 1993.2 | 1995.8 | 1995.8 | 1994.9 |
| 7.5°  | 2025.9 | 2030.2 | 2028.5 | 2030.2 | 2031.1 | 2031.9 | 2027.6 | 2024.2 | 2023.3 | 2025.9 | 2024.2 |
| 10°   | 2068.0 | 2071.5 | 2072.3 | 2073.2 | 2074.9 | 2074.1 | 2068.9 | 2062.9 | 2062.0 | 2061.2 | 2060.3 |
| 12.5° | 2115.3 | 2117.9 | 2118.8 | 2122.2 | 2124.8 | 2125.7 | 2119.6 | 2114.5 | 2105.9 | 2107.6 | 2104.2 |
| 15°   | 2168.6 | 2173.8 | 2172.9 | 2178.1 | 2185.0 | 2186.7 | 2180.7 | 2172.1 | 2164.3 | 2160.0 | 2157.5 |
| 17.5° | 2234.0 | 2237.4 | 2235.7 | 2240.9 | 2249.5 | 2253.8 | 2248.6 | 2237.4 | 2229.7 | 2220.2 | 2215.1 |
| 20°   | 2311.4 | 2317.4 | 2319.1 | 2319.1 | 2326.9 | 2331.2 | 2323.4 | 2320.0 | 2307.9 | 2301.1 | 2296.8 |
| 22.5° | 2399.1 | 2401.7 | 2406.8 | 2412.0 | 2419.7 | 2418.0 | 2415.4 | 2410.3 | 2399.1 | 2393.1 | 2386.2 |
| 25°   | 2498.0 | 2500.6 | 2513.5 | 2524.6 | 2527.2 | 2525.5 | 2522.1 | 2519.5 | 2509.2 | 2495.4 | 2490.2 |
| 27.5° | 2613.2 | 2618.4 | 2635.6 | 2645.9 | 2645.9 | 2646.7 | 2639.9 | 2648.5 | 2626.1 | 2609.8 | 2608.1 |
| 30°   | 2757.7 | 2761.1 | 2775.7 | 2786.0 | 2780.9 | 2776.6 | 2774.9 | 2783.5 | 2759.4 | 2730.2 | 2723.3 |
| 32.5° | 2900.4 | 2912.5 | 2925.4 | 2947.7 | 2929.7 | 2921.9 | 2920.2 | 2926.2 | 2898.7 | 2866.0 | 2856.6 |
| 35°   | 3053.5 | 3062.1 | 3086.2 | 3105.1 | 3088.7 | 3070.7 | 3078.4 | 3097.3 | 3064.7 | 3020.8 | 3019.1 |
| 37.5° | 3222.9 | 3230.6 | 3261.6 | 3281.3 | 3269.3 | 3238.4 | 3251.3 | 3273.6 | 3240.9 | 3186.8 | 3175.6 |
| 40°   | 3399.2 | 3415.5 | 3454.2 | 3474.8 | 3455.0 | 3413.8 | 3437.8 | 3461.9 | 3432.7 | 3369.9 | 3345.0 |
| 42.5° | 3596.9 | 3622.7 | 3678.6 | 3688.9 | 3651.1 | 3595.2 | 3637.3 | 3676.0 | 3655.4 | 3583.2 | 3573.7 |
| 45°   | 3828.2 | 3843.7 | 3912.5 | 3934.9 | 3882.4 | 3812.8 | 3865.2 | 3935.7 | 3920.2 | 3836.8 | 3818.8 |
| 47.5° | 4087.1 | 4101.7 | 4173.1 | 4206.6 | 4140.4 | 4046.7 | 4141.2 | 4233.2 | 4223.8 | 4134.4 | 4125.8 |
| 50°   | 4393.2 | 4396.6 | 4495.5 | 4533.3 | 4467.1 | 4386.3 | 4470.6 | 4584.9 | 4547.1 | 4432.7 | 4431.0 |
| 52.5° | 4728.5 | 4732.8 | 4857.5 | 4930.6 | 4893.6 | 4802.5 | 4902.2 | 4971.9 | 4875.6 | 4726.0 | 4714.8 |
| 55°   | 5019.2 | 5040.7 | 5210.9 | 5405.3 | 5456.0 | 5389.8 | 5419.9 | 5387.2 | 5149.9 | 4940.1 | 4907.4 |
| 57.5° | 5137.9 | 5180.0 | 5438.8 | 5801.7 | 6131.9 | 6229.9 | 5997.7 | 5686.5 | 5259.1 | 4962.4 | 4930.6 |
| 60°   | 4848.1 | 4893.6 | 5295.2 | 5984.0 | 6826.7 | 7252.3 | 6599.7 | 5737.2 | 5010.6 | 4593.5 | 4543.7 |
| 62.5° | 3882.4 | 3895.3 | 4486.1 | 5554.9 | 7231.7 | 8334.1 | 6853.3 | 5304.7 | 4287.4 | 3720.8 | 3701.0 |
| 64°   | 2793.8 | 2926.2 | 3552.2 | 4870.4 | 7054.6 | 8746.0 | 6707.2 | 4698.4 | 3482.6 | 2909.0 | 2816.1 |
| 65°   | 2089.5 | 2125.7 | 2863.4 | 4159.3 | 6742.4 | 8715.0 | 6423.4 | 4118.9 | 2884.1 | 2226.3 | 2123.1 |
| 67.5° | 789.4  | 793.7  | 1056.8 | 2073.2 | 4799.9 | 7498.3 | 4902.2 | 2240.9 | 1215.0 | 878.8  | 847.0  |
| 70°   | 327.6  | 333.6  | 387.8  | 697.4  | 2062.9 | 4814.5 | 2363.8 | 808.3  | 444.6  | 360.3  | 355.1  |
| 72.5° | 239.9  | 243.3  | 259.7  | 309.6  | 634.6  | 1976.9 | 777.3  | 343.1  | 260.5  | 233.0  | 230.5  |
| 75°   | 188.3  | 190.0  | 202.1  | 227.9  | 295.8  | 547.8  | 323.3  | 235.6  | 198.6  | 178.9  | 177.1  |
| 77.5° | 143.6  | 147.9  | 156.5  | 173.7  | 198.6  | 259.7  | 214.1  | 176.3  | 153.1  | 136.7  | 134.1  |
| 80°   | 98.9   | 104.0  | 120.4  | 127.3  | 133.3  | 168.5  | 146.2  | 133.3  | 119.5  | 99.7   | 93.7   |
| 82.5° | 61.1   | 64.5   | 80.8   | 86.8   | 84.3   | 94.6   | 93.7   | 95.4   | 85.1   | 61.9   | 57.6   |
| 85°   | 31.8   | 33.5   | 43.9   | 45.6   | 42.1   | 38.7   | 48.2   | 55.9   | 52.5   | 35.3   | 34.4   |
| 87.5° | 6.9    | 7.7    | 9.5    | 8.6    | 9.5    | 9.5    | 12.0   | 18.1   | 18.9   | 12.0   | 11.2   |
| 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)