

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: P528951

Luminaire Tested: **GLAN-SA4A-750-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528951  
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-SA4A-750-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA 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: 12428 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

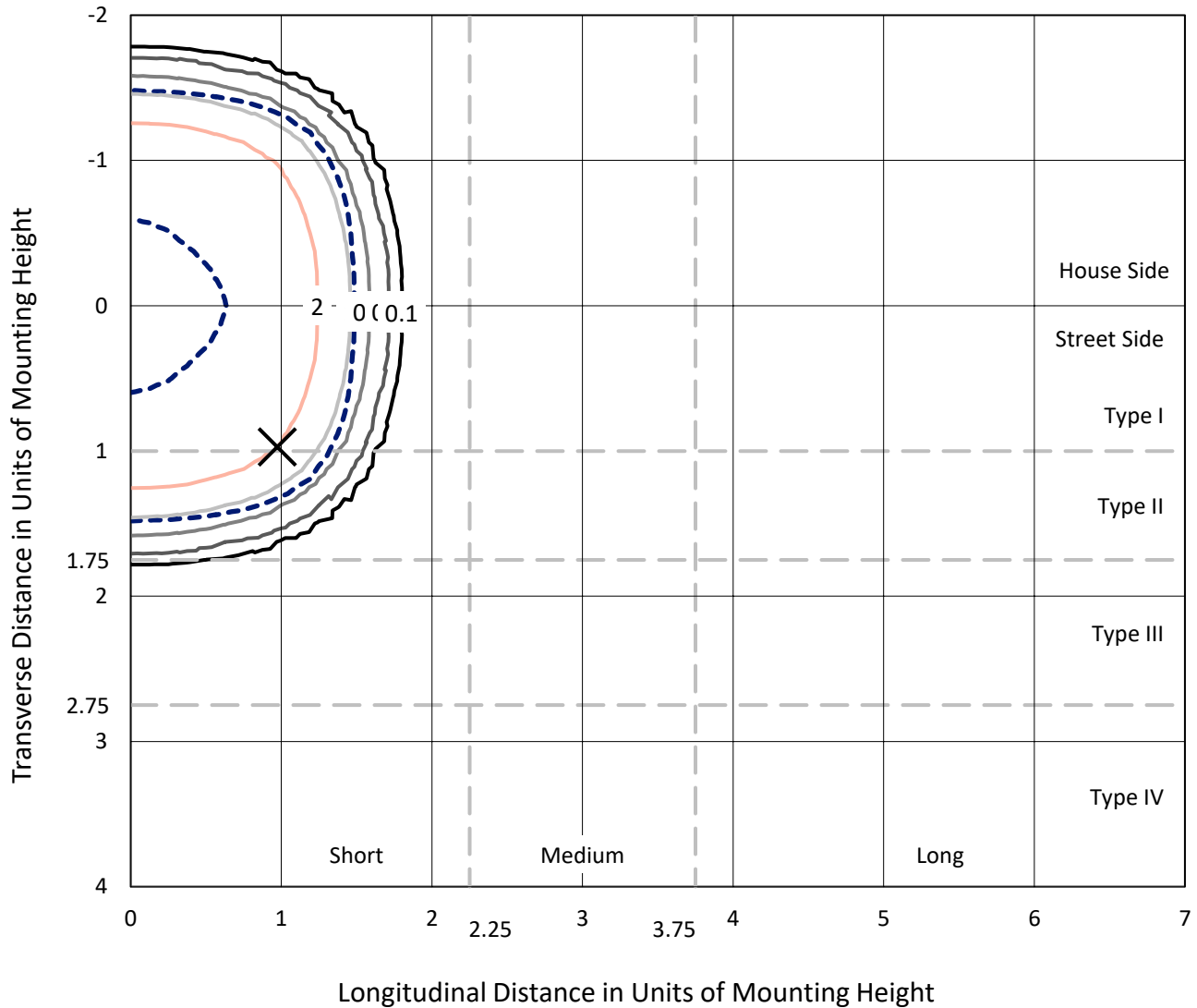
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

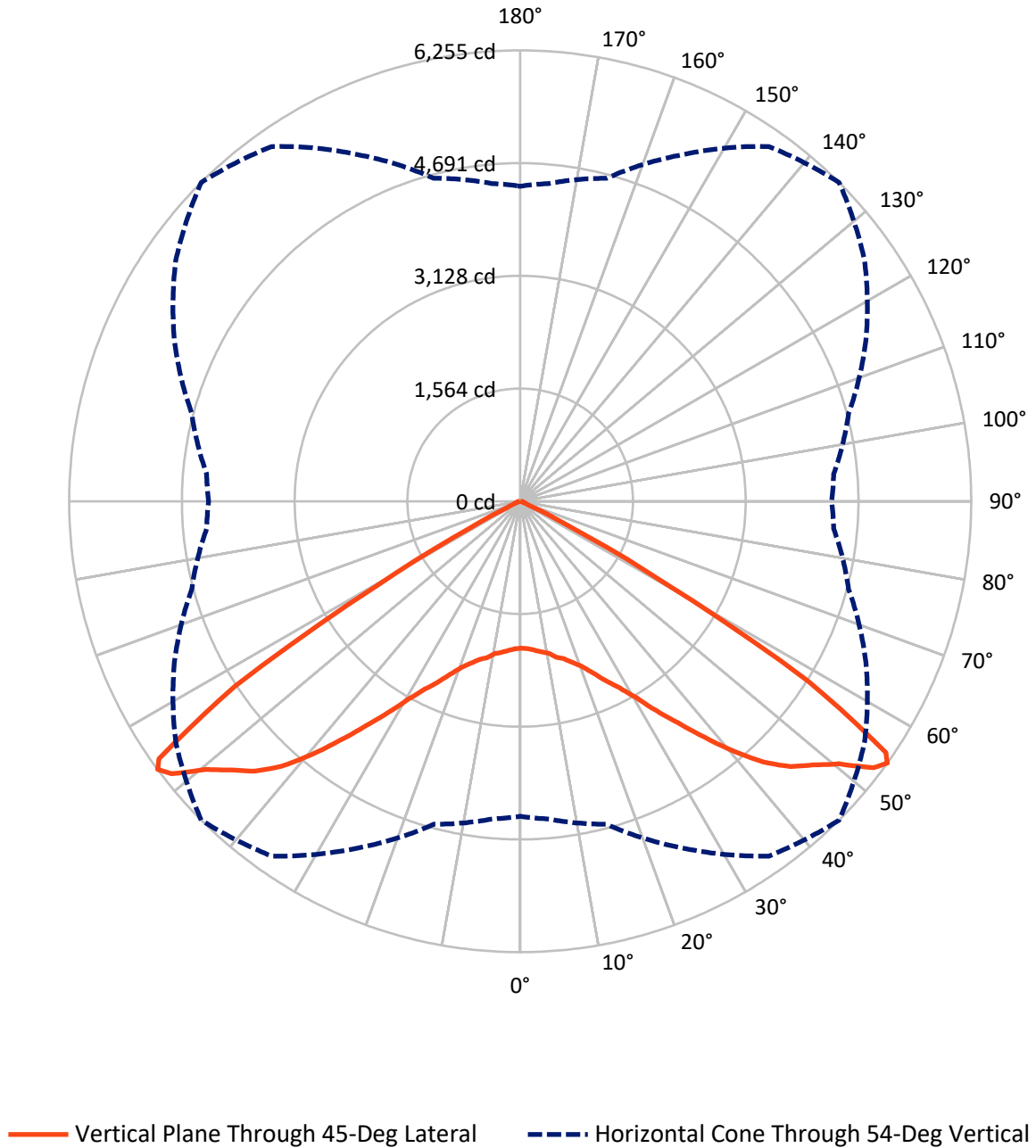
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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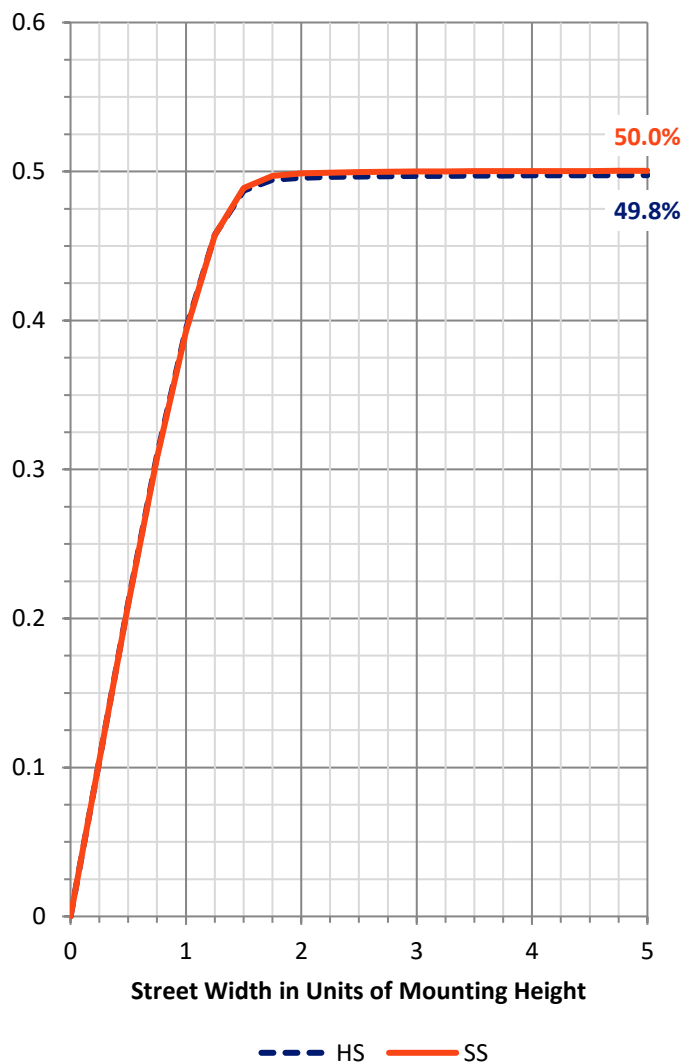
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6214.0   | 0.0    | 6214.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6214.0   | 0.0    | 6214.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12428.0  | 0.0    | 12428.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 199.5   | 1.6       |
| 10°-20°   | 645.9   | 5.2       |
| 20°-30°   | 1265.9  | 10.2      |
| 30°-40°   | 2276.4  | 18.3      |
| 40°-50°   | 3896.8  | 31.4      |
| 50°-60°   | 3770.5  | 30.3      |
| 60°-70°   | 322.8   | 2.6       |
| 70°-80°   | 38.3    | 0.3       |
| 80°-90°   | 12.0    | 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°    | 12428.0 | 100.0     |
| 0°-180°   | 12428.0 | 100.0     |

**Coefficient of Utilization**



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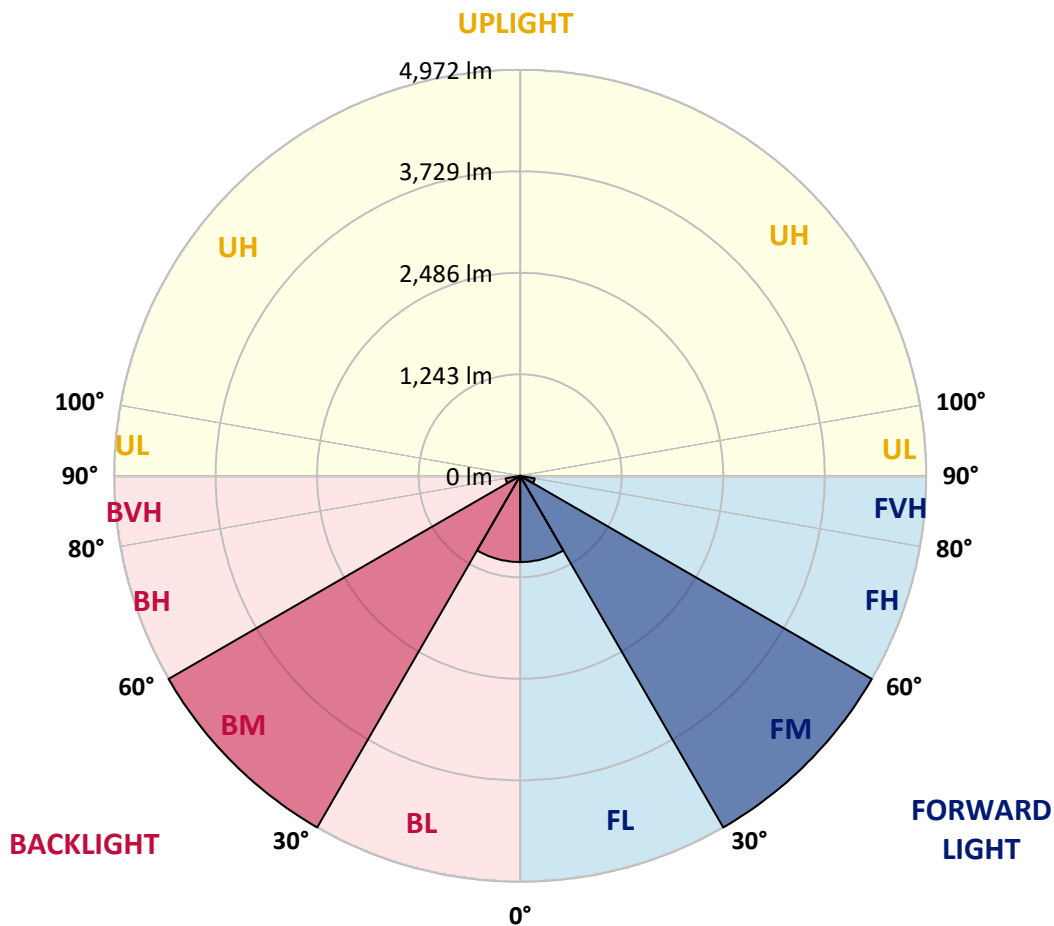
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1055.6 | 8.5       |                         |      |        |
| FM (30°-60°)   | 4971.8 | 40.0      |                         |      |        |
| FH (60°-80°)   | 180.5  | 1.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 6.0    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 1055.6 | 8.5       | B3/2500                 |      |        |
| BM (30°-60°)   | 4971.8 | 40.0      | B3/5000                 |      |        |
| BH (60°-80°)   | 180.5  | 1.5       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 6.0    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 |
| 2.5°  | 2047.6 | 2059.5 | 2051.6 | 2057.5 | 2057.5 | 2047.6 | 2053.6 | 2029.9 | 2045.7 | 2033.9 | 2035.8 |
| 5°    | 2079.2 | 2077.2 | 2077.2 | 2079.2 | 2071.3 | 2075.2 | 2067.3 | 2059.5 | 2053.6 | 2045.7 | 2069.3 |
| 7.5°  | 2118.5 | 2118.5 | 2104.7 | 2108.7 | 2104.7 | 2110.7 | 2094.9 | 2079.2 | 2073.2 | 2067.3 | 2063.4 |
| 10°   | 2155.9 | 2152.0 | 2146.1 | 2163.8 | 2150.0 | 2142.2 | 2134.3 | 2124.4 | 2102.8 | 2094.9 | 2087.0 |
| 12.5° | 2211.1 | 2209.1 | 2201.2 | 2218.9 | 2211.1 | 2218.9 | 2189.4 | 2163.8 | 2159.9 | 2134.3 | 2148.1 |
| 15°   | 2276.0 | 2293.8 | 2280.0 | 2280.0 | 2276.0 | 2266.2 | 2254.4 | 2242.6 | 2207.1 | 2197.3 | 2199.3 |
| 17.5° | 2360.7 | 2354.8 | 2356.8 | 2356.8 | 2376.5 | 2350.9 | 2327.2 | 2297.7 | 2280.0 | 2274.1 | 2254.4 |
| 20°   | 2441.4 | 2449.3 | 2447.3 | 2461.1 | 2472.9 | 2445.4 | 2419.8 | 2415.8 | 2366.6 | 2374.5 | 2346.9 |
| 22.5° | 2583.2 | 2577.3 | 2587.1 | 2597.0 | 2589.1 | 2585.2 | 2561.5 | 2532.0 | 2488.7 | 2469.0 | 2465.1 |
| 25°   | 2732.8 | 2723.0 | 2705.3 | 2728.9 | 2740.7 | 2758.4 | 2713.1 | 2697.4 | 2630.4 | 2600.9 | 2602.9 |
| 27.5° | 2860.8 | 2874.6 | 2894.3 | 2904.1 | 2933.7 | 2927.7 | 2896.2 | 2845.1 | 2793.9 | 2760.4 | 2738.7 |
| 30°   | 3036.0 | 3043.9 | 3077.4 | 3091.2 | 3142.4 | 3156.1 | 3106.9 | 3047.8 | 2957.3 | 2914.0 | 2888.4 |
| 32.5° | 3197.5 | 3252.6 | 3250.6 | 3319.6 | 3402.2 | 3459.3 | 3370.7 | 3280.2 | 3189.6 | 3138.4 | 3093.1 |
| 35°   | 3459.3 | 3449.5 | 3506.6 | 3579.4 | 3713.3 | 3778.3 | 3681.8 | 3577.5 | 3439.7 | 3357.0 | 3321.5 |
| 37.5° | 3703.5 | 3707.4 | 3784.2 | 3900.4 | 4054.0 | 4154.4 | 4069.7 | 3898.4 | 3756.6 | 3650.3 | 3601.1 |
| 40°   | 4057.9 | 4065.8 | 4144.5 | 4276.4 | 4449.7 | 4558.0 | 4459.5 | 4286.3 | 4097.3 | 4014.6 | 4014.6 |
| 42.5° | 4473.3 | 4506.8 | 4558.0 | 4672.2 | 4827.7 | 4947.8 | 4859.2 | 4723.4 | 4532.4 | 4426.1 | 4441.8 |
| 45°   | 4900.6 | 4916.3 | 4949.8 | 5119.1 | 5192.0 | 5251.0 | 5168.3 | 5105.3 | 4977.4 | 4847.4 | 4825.8 |
| 47.5° | 5300.3 | 5306.2 | 5404.6 | 5457.8 | 5514.9 | 5465.6 | 5518.8 | 5436.1 | 5292.4 | 5166.4 | 5140.8 |
| 50°   | 5477.5 | 5467.6 | 5607.4 | 5768.9 | 5812.2 | 5725.5 | 5680.3 | 5625.1 | 5406.6 | 5255.0 | 5188.0 |
| 52.5° | 4961.6 | 5018.7 | 5278.6 | 5727.5 | 6066.2 | 6139.0 | 5875.2 | 5621.2 | 5213.6 | 4918.3 | 4873.0 |
| 54°   | 4370.9 | 4424.1 | 4638.7 | 5304.2 | 6009.1 | 6255.2 | 5829.9 | 5290.4 | 4715.5 | 4365.0 | 4319.8 |
| 55°   | 3786.2 | 3727.1 | 4117.0 | 4796.2 | 5741.3 | 6152.8 | 5650.7 | 4863.2 | 4205.6 | 3884.6 | 3821.6 |
| 57.5° | 2049.6 | 2059.5 | 2388.3 | 3030.1 | 4034.3 | 4717.5 | 4166.2 | 3290.0 | 2484.7 | 2124.4 | 2092.9 |
| 60°   | 649.7  | 665.5  | 809.2  | 1224.7 | 1927.5 | 2301.6 | 1972.8 | 1321.1 | 913.6  | 732.4  | 702.9  |
| 62.5° | 202.8  | 210.7  | 230.4  | 342.6  | 527.7  | 754.1  | 590.7  | 354.4  | 263.8  | 242.2  | 246.1  |
| 65°   | 124.0  | 124.0  | 126.0  | 133.9  | 157.5  | 183.1  | 177.2  | 155.5  | 149.6  | 145.7  | 143.7  |
| 67.5° | 80.7   | 78.8   | 82.7   | 88.6   | 92.5   | 94.5   | 100.4  | 106.3  | 104.4  | 100.4  | 100.4  |
| 70°   | 49.2   | 47.3   | 51.2   | 59.1   | 61.0   | 65.0   | 70.9   | 78.8   | 76.8   | 72.8   | 74.8   |
| 72.5° | 27.6   | 27.6   | 29.5   | 35.4   | 41.3   | 45.3   | 51.2   | 57.1   | 59.1   | 57.1   | 57.1   |
| 75°   | 9.8    | 11.8   | 15.8   | 21.7   | 25.6   | 31.5   | 37.4   | 43.3   | 49.2   | 45.3   | 43.3   |
| 77.5° | 3.9    | 3.9    | 7.9    | 13.8   | 19.7   | 25.6   | 35.4   | 41.3   | 45.3   | 41.3   | 37.4   |
| 80°   | 2.0    | 2.0    | 5.9    | 11.8   | 17.7   | 23.6   | 29.5   | 35.4   | 37.4   | 33.5   | 29.5   |
| 82.5° | 2.0    | 2.0    | 5.9    | 11.8   | 17.7   | 21.7   | 31.5   | 35.4   | 39.4   | 35.4   | 29.5   |
| 85°   | 0.0    | 2.0    | 5.9    | 11.8   | 15.8   | 17.7   | 17.7   | 11.8   | 9.8    | 5.9    | 5.9    |
| 87.5° | 0.0    | 0.0    | 2.0    | 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)