

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: P649351

Luminaire Tested: **GLAN-SA4D-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4D-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25078.7 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

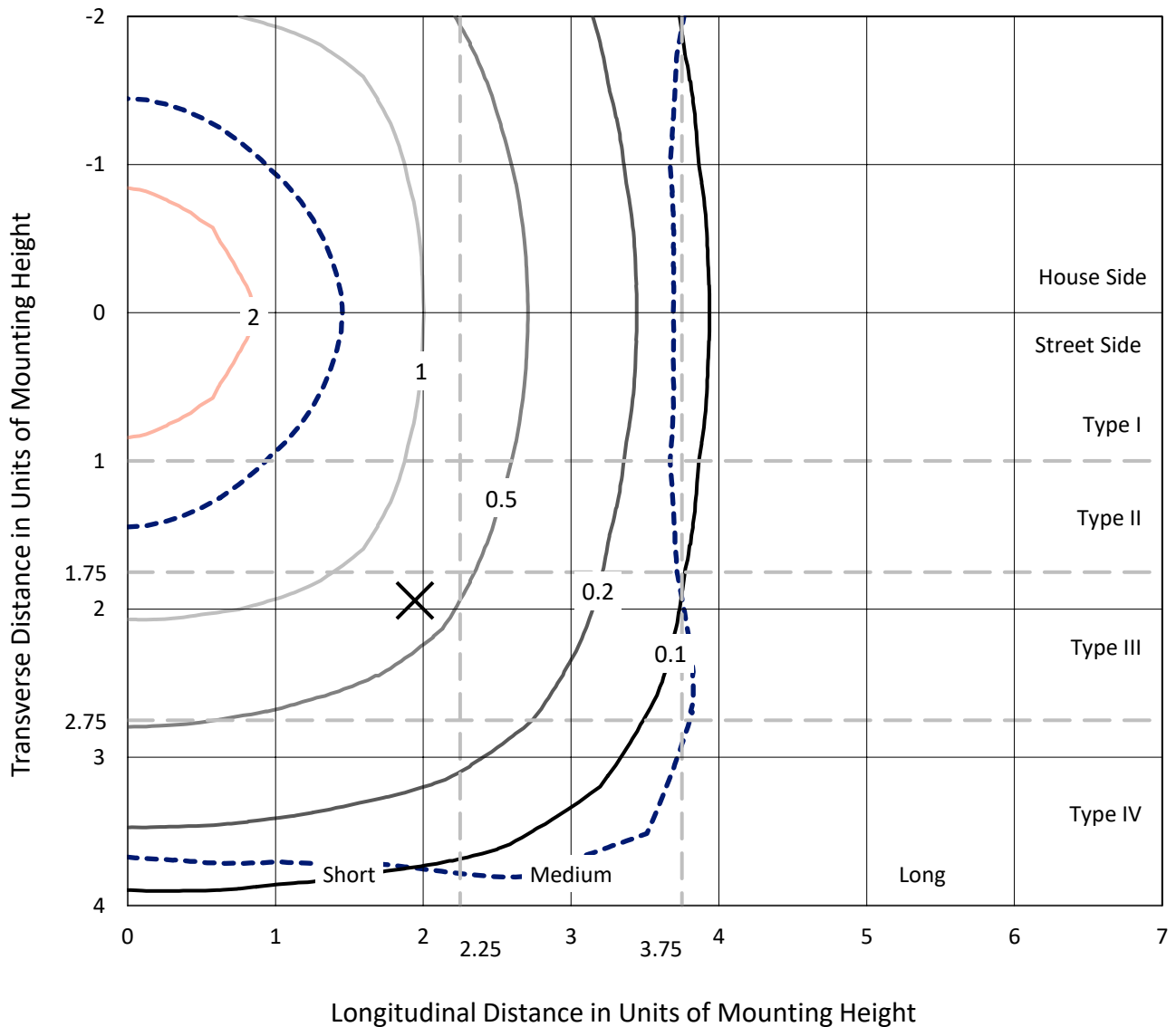
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

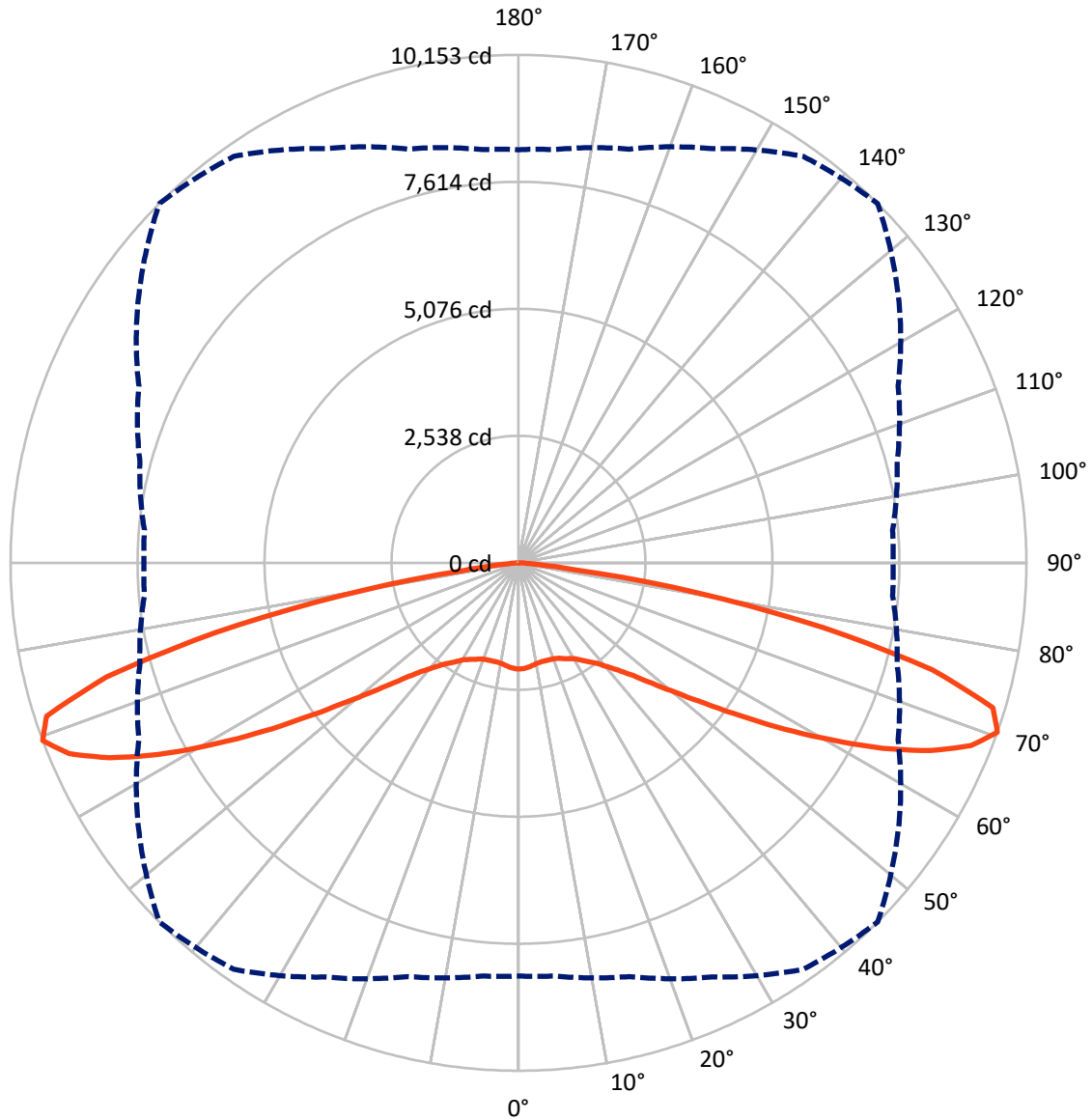
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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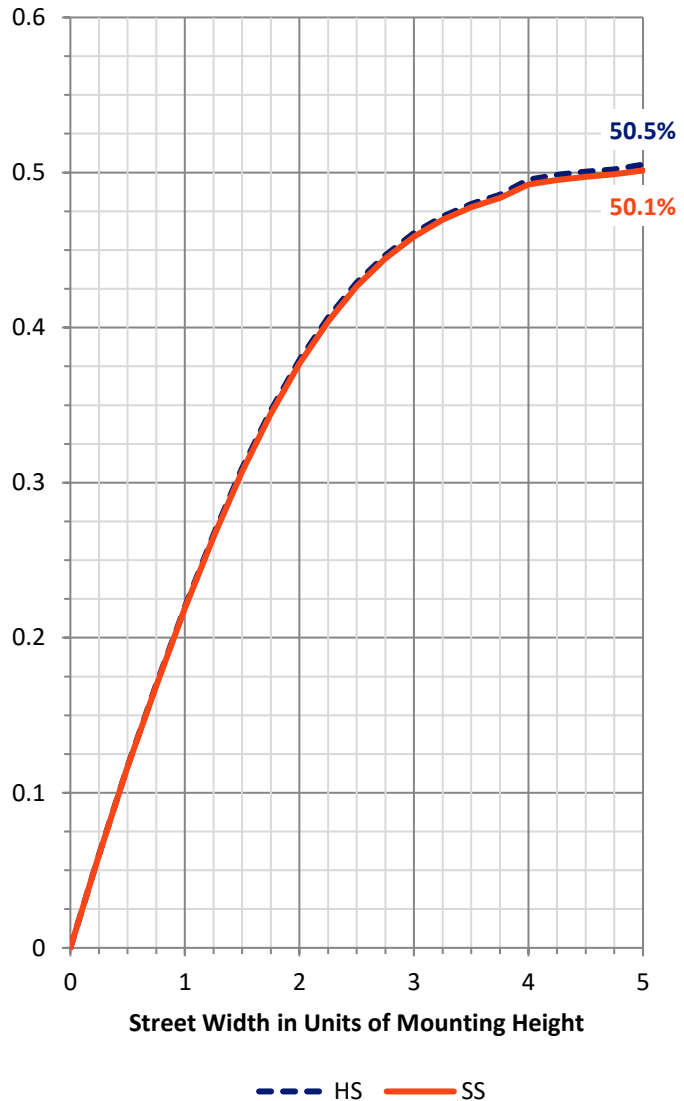
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12539.4  | 0.0    | 12539.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12539.4  | 0.0    | 12539.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 25078.7  | 0.0    | 25078.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 198.6   | 0.8       |
| 10°-20°   | 581.3   | 2.3       |
| 20°-30°   | 990.4   | 3.9       |
| 30°-40°   | 1535.1  | 6.1       |
| 40°-50°   | 2583.8  | 10.3      |
| 50°-60°   | 4701.1  | 18.7      |
| 60°-70°   | 7958.9  | 31.7      |
| 70°-80°   | 6160.5  | 24.6      |
| 80°-90°   | 369.1   | 1.5       |
| 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°    | 25078.7 | 100.0     |
| 0°-180°   | 25078.7 | 100.0     |

**Coefficient of Utilization**

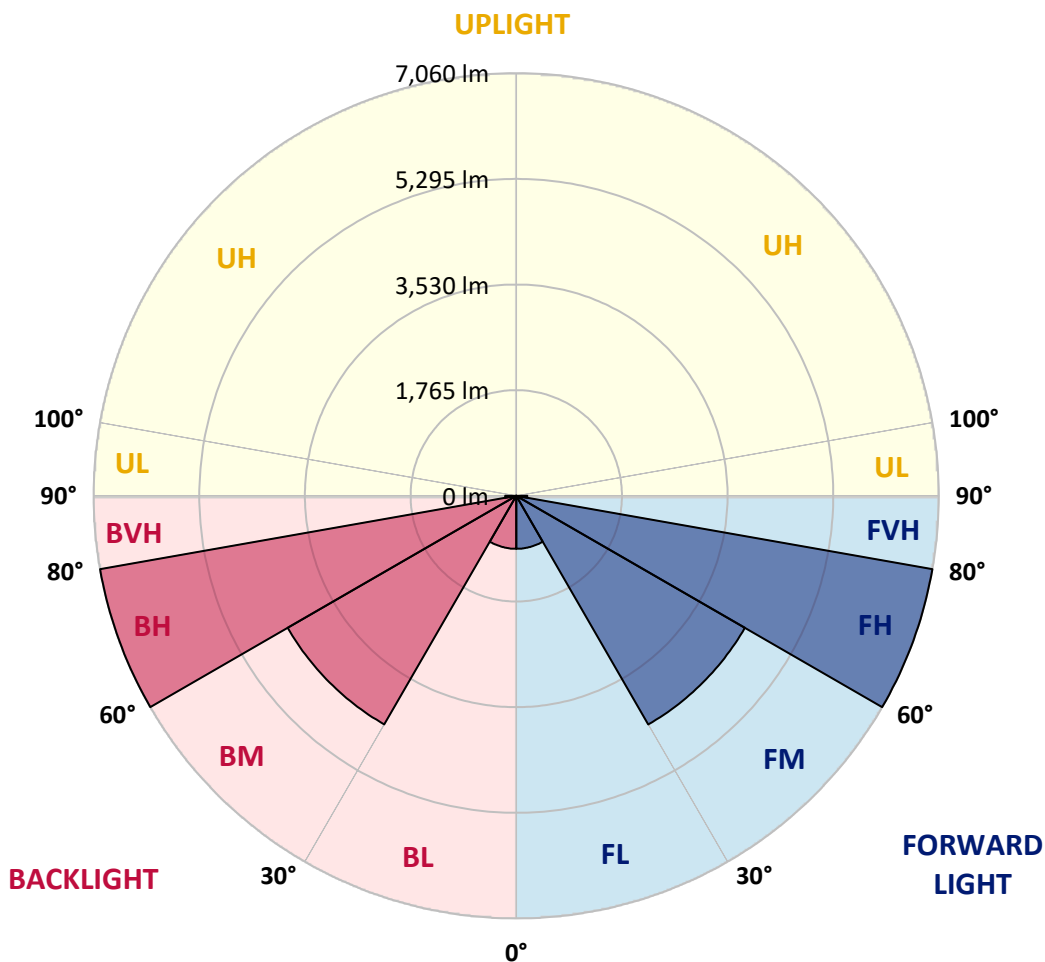


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 885.1  | 3.5       |                         |      |         |
| FM (30°-60°)   | 4410.0 | 17.6      |                         |      |         |
| FH (60°-80°)   | 7059.7 | 28.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 184.6  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 885.1  | 3.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 4410.0 | 17.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 7059.7 | 28.1      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 184.6  | 0.7       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0°    | 2123.2 | 2123.2 | 2123.2 | 2123.2 | 2123.2 | 2123.2  | 2123.2 | 2123.2 | 2123.2 | 2123.2 | 2123.2 |
| 2.5°  | 2117.9 | 2119.3 | 2119.3 | 2116.6 | 2115.3 | 2115.3  | 2113.9 | 2113.9 | 2117.9 | 2119.3 | 2120.6 |
| 5°    | 2099.4 | 2099.4 | 2099.4 | 2098.0 | 2095.4 | 2095.4  | 2092.7 | 2092.7 | 2094.1 | 2098.0 | 2095.4 |
| 7.5°  | 2074.2 | 2076.8 | 2076.8 | 2071.6 | 2067.6 | 2067.6  | 2066.3 | 2067.6 | 2068.9 | 2072.9 | 2071.6 |
| 10°   | 2066.3 | 2067.6 | 2060.9 | 2051.7 | 2045.0 | 2041.1  | 2042.5 | 2045.0 | 2051.7 | 2054.4 | 2055.7 |
| 12.5° | 2071.6 | 2071.6 | 2059.6 | 2046.4 | 2034.5 | 2029.1  | 2027.9 | 2037.1 | 2049.0 | 2057.0 | 2059.6 |
| 15°   | 2078.2 | 2075.5 | 2060.9 | 2043.8 | 2031.8 | 2030.5  | 2029.1 | 2035.8 | 2053.0 | 2068.9 | 2070.3 |
| 17.5° | 2082.2 | 2080.8 | 2062.3 | 2041.1 | 2034.5 | 2034.5  | 2033.1 | 2038.5 | 2057.0 | 2076.8 | 2078.2 |
| 20°   | 2095.4 | 2091.4 | 2070.3 | 2047.7 | 2042.5 | 2045.0  | 2041.1 | 2047.7 | 2067.6 | 2091.4 | 2096.7 |
| 22.5° | 2121.9 | 2117.9 | 2096.7 | 2074.2 | 2071.6 | 2071.6  | 2070.3 | 2076.8 | 2098.0 | 2123.2 | 2127.2 |
| 25°   | 2153.7 | 2149.7 | 2129.8 | 2113.9 | 2116.6 | 2121.9  | 2119.3 | 2120.6 | 2137.8 | 2159.0 | 2165.6 |
| 27.5° | 2196.1 | 2189.4 | 2172.2 | 2159.0 | 2167.0 | 2167.0  | 2167.0 | 2165.6 | 2176.2 | 2196.1 | 2202.7 |
| 30°   | 2247.8 | 2245.1 | 2226.5 | 2225.2 | 2231.9 | 2225.2  | 2225.2 | 2226.5 | 2227.9 | 2246.4 | 2253.0 |
| 32.5° | 2315.3 | 2310.0 | 2300.7 | 2298.0 | 2316.6 | 2321.9  | 2303.4 | 2286.1 | 2295.4 | 2313.9 | 2317.9 |
| 35°   | 2426.5 | 2418.6 | 2405.4 | 2390.8 | 2405.4 | 2430.5  | 2390.8 | 2377.5 | 2401.4 | 2426.5 | 2429.2 |
| 37.5° | 2577.6 | 2573.6 | 2552.3 | 2525.9 | 2524.5 | 2551.0  | 2510.0 | 2508.7 | 2553.7 | 2584.1 | 2588.1 |
| 40°   | 2767.0 | 2770.9 | 2744.4 | 2719.3 | 2706.0 | 2727.2  | 2695.4 | 2707.3 | 2751.1 | 2785.5 | 2782.9 |
| 42.5° | 3033.2 | 3018.6 | 2977.5 | 2953.7 | 2939.1 | 2931.2  | 2923.3 | 2941.8 | 2990.8 | 3027.9 | 3057.0 |
| 45°   | 3344.4 | 3339.1 | 3287.5 | 3258.4 | 3226.6 | 3214.6  | 3211.9 | 3245.1 | 3304.7 | 3349.8 | 3353.7 |
| 47.5° | 3696.8 | 3684.9 | 3651.8 | 3621.3 | 3609.3 | 3594.8  | 3581.5 | 3606.7 | 3666.3 | 3698.1 | 3707.3 |
| 50°   | 4059.7 | 4062.4 | 4062.4 | 4057.0 | 4068.9 | 4071.6  | 4035.8 | 4045.1 | 4078.3 | 4075.6 | 4072.9 |
| 52.5° | 4474.3 | 4488.9 | 4557.7 | 4564.3 | 4621.3 | 4659.7  | 4594.8 | 4556.4 | 4544.5 | 4473.0 | 4478.2 |
| 55°   | 4961.7 | 4974.9 | 5078.2 | 5181.6 | 5335.2 | 5400.1  | 5263.6 | 5144.5 | 5059.7 | 4951.1 | 4956.4 |
| 57.5° | 5569.6 | 5576.3 | 5674.2 | 5873.0 | 6116.6 | 6269.0  | 6029.3 | 5793.5 | 5621.3 | 5518.0 | 5476.9 |
| 60°   | 6224.0 | 6230.6 | 6373.6 | 6616.0 | 6994.9 | 7180.3  | 6883.6 | 6498.1 | 6280.9 | 6123.3 | 6133.9 |
| 62.5° | 7009.4 | 7035.9 | 7164.4 | 7498.2 | 7957.8 | 8165.8  | 7772.4 | 7257.1 | 6963.1 | 6767.0 | 6775.0 |
| 65°   | 7850.5 | 7895.5 | 8035.9 | 8402.8 | 8826.7 | 9050.5  | 8568.4 | 7973.7 | 7608.1 | 7368.3 | 7393.6 |
| 67.5° | 8396.2 | 8435.9 | 8638.6 | 9043.9 | 9572.3 | 9757.8  | 9135.3 | 8442.5 | 7985.6 | 7699.5 | 7646.5 |
| 70°   | 8257.1 | 8290.2 | 8560.5 | 9135.3 | 9918.1 | 10152.5 | 9270.4 | 8373.6 | 7836.0 | 7506.1 | 7484.9 |
| 72.5° | 7288.9 | 7220.0 | 7614.8 | 8439.9 | 9523.4 | 9916.8  | 8845.2 | 7647.8 | 6971.0 | 6631.9 | 6592.2 |
| 75°   | 4830.6 | 4980.2 | 5563.1 | 6535.2 | 8057.1 | 8544.6  | 7549.8 | 6140.5 | 5288.9 | 5006.7 | 4963.0 |
| 77.5° | 1614.6 | 1729.8 | 2247.8 | 3704.7 | 5492.8 | 6225.3  | 5500.7 | 4016.0 | 2841.1 | 2288.8 | 2299.4 |
| 80°   | 427.8  | 422.5  | 547.0  | 1018.5 | 2373.6 | 3605.4  | 2763.0 | 1360.3 | 744.4  | 539.1  | 511.3  |
| 82.5° | 153.6  | 172.2  | 221.2  | 282.1  | 629.1  | 1120.6  | 790.8  | 381.5  | 279.5  | 206.6  | 200.0  |
| 85°   | 67.6   | 66.2   | 95.4   | 112.6  | 157.6  | 209.3   | 185.4  | 161.6  | 141.7  | 94.0   | 87.4   |
| 87.5° | 14.6   | 14.6   | 22.6   | 17.2   | 27.8   | 27.8    | 34.5   | 41.0   | 42.4   | 27.8   | 22.6   |
| 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)