

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: P317309

Luminaire Tested: **GAN-SA5A-722-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-722-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17502 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

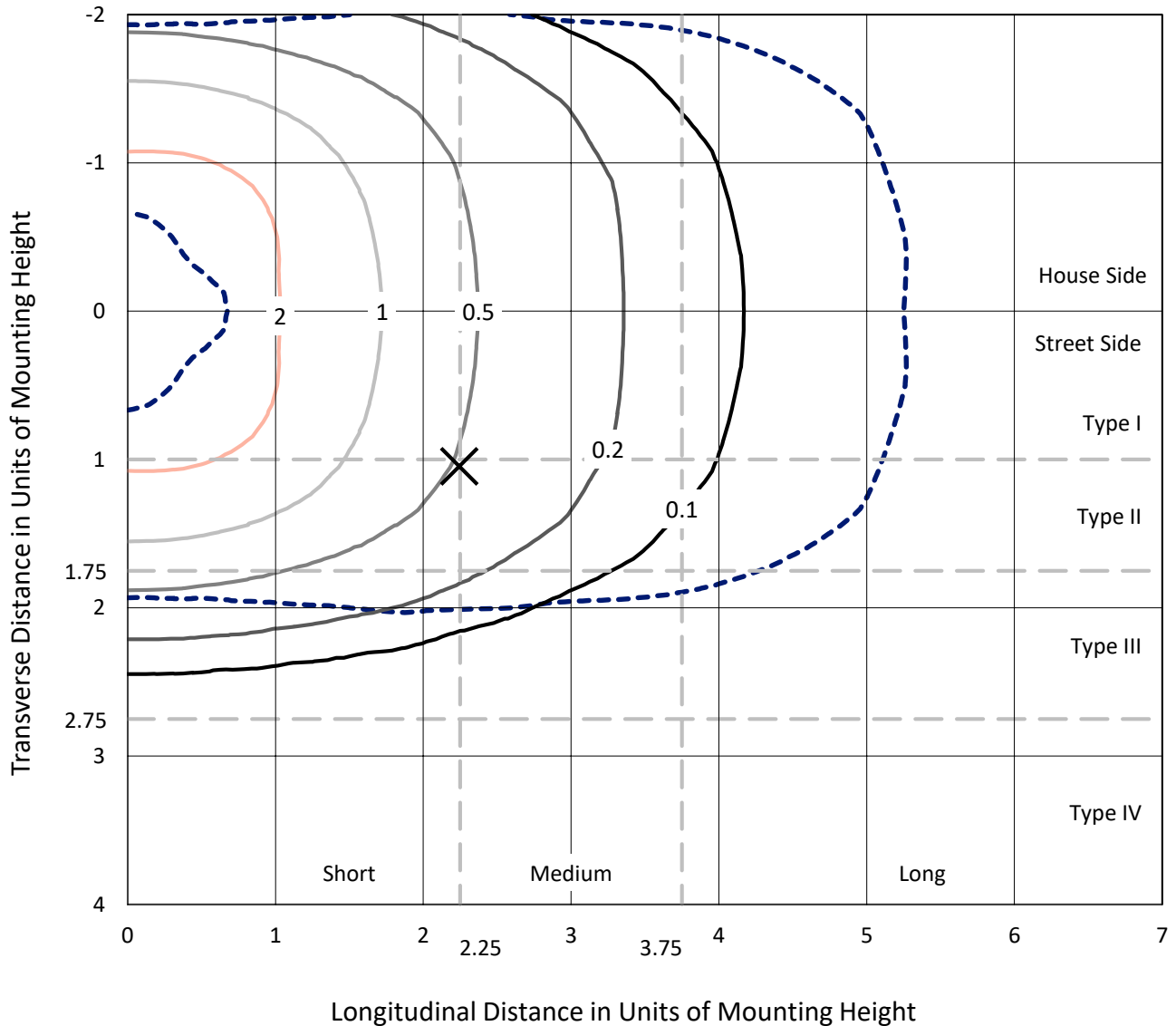
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

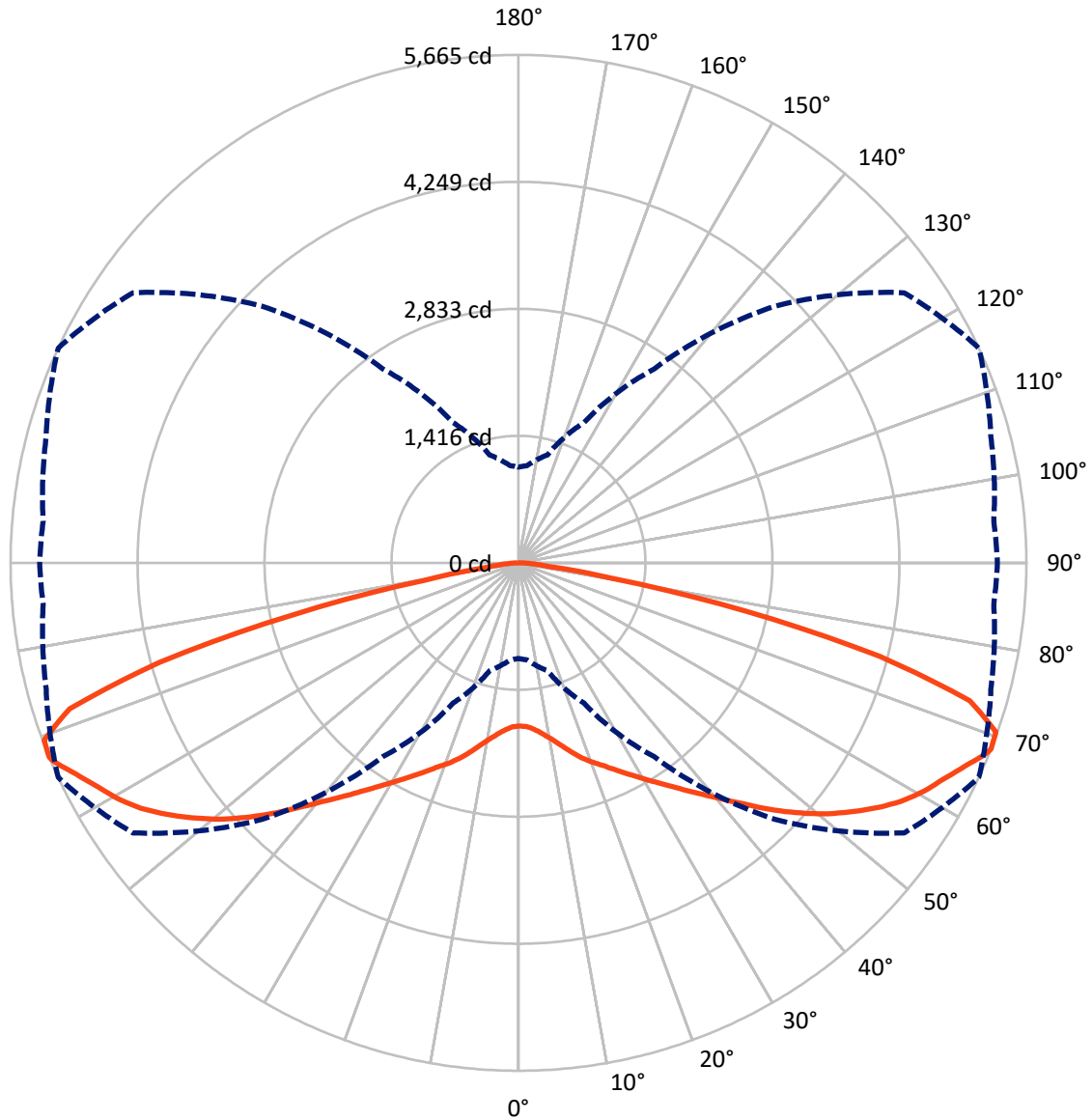
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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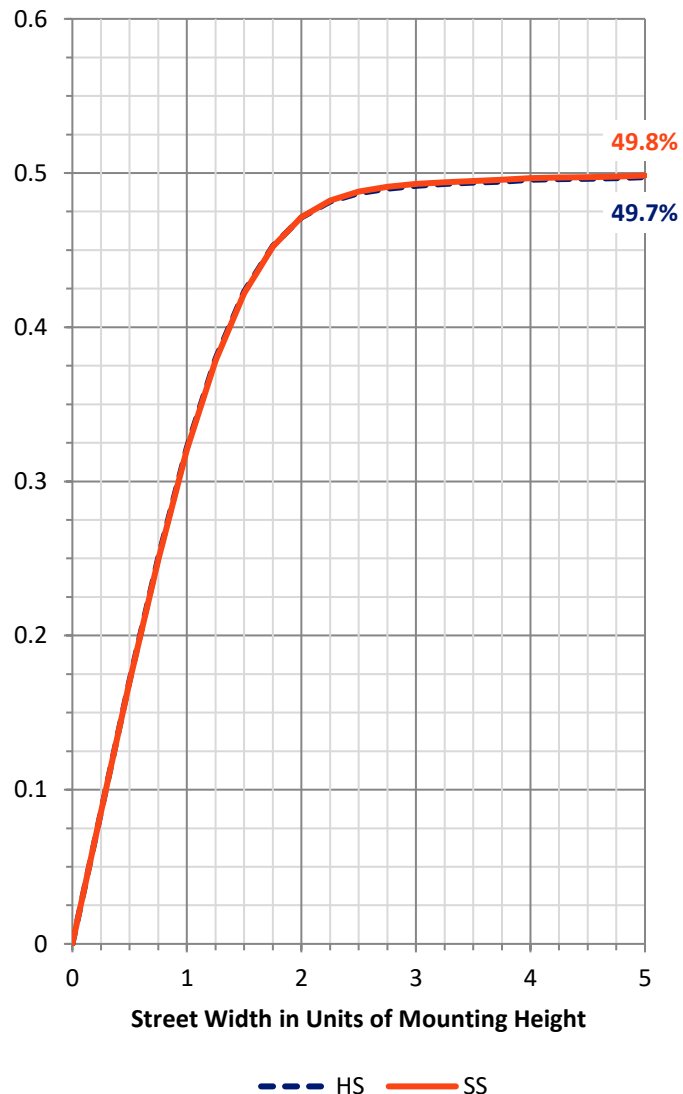
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8751.0   | 0.0    | 8751.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8751.0   | 0.0    | 8751.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17502.0  | 0.0    | 17502.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 178.2   | 1.0       |
| 10°-20°   | 596.6   | 3.4       |
| 20°-30°   | 1163.2  | 6.6       |
| 30°-40°   | 1954.1  | 11.2      |
| 40°-50°   | 3078.9  | 17.6      |
| 50°-60°   | 4117.6  | 23.5      |
| 60°-70°   | 4002.8  | 22.9      |
| 70°-80°   | 2188.1  | 12.5      |
| 80°-90°   | 222.5   | 1.3       |
| 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°    | 17502.0 | 100.0     |
| 0°-180°   | 17502.0 | 100.0     |

**Coefficient of Utilization**



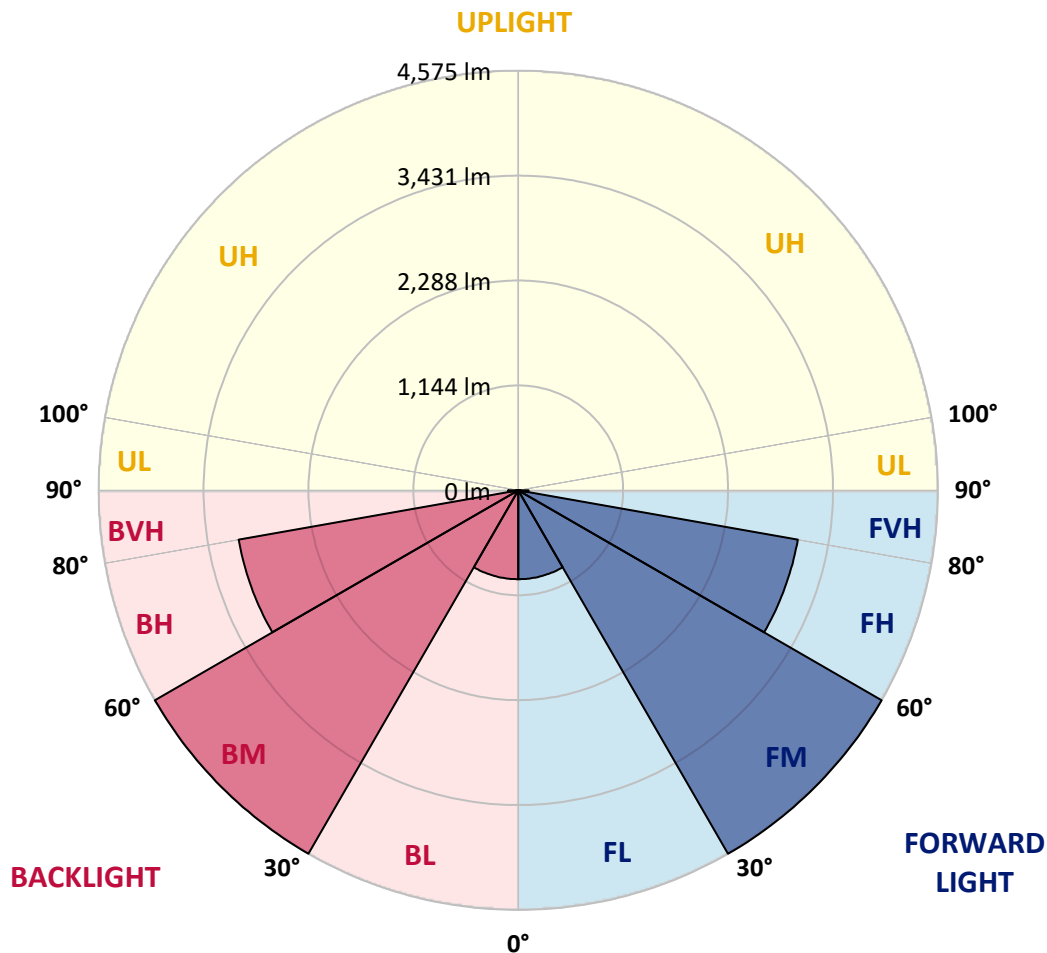
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 969.0  | 5.5       |                         |      |         |
| FM (30°-60°)   | 4575.3 | 26.1      |                         |      |         |
| FH (60°-80°)   | 3095.5 | 17.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 111.3  | 0.6       |                         |      | G2/225  |
| BL (0°-30°)    | 969.0  | 5.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 4575.3 | 26.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 3095.5 | 17.7      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 111.3  | 0.6       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1819.8 | 1819.8 | 1819.8 | 1819.8 | 1819.8 | 1819.8 | 1819.8 | 1819.8 | 1819.8 | 1819.8 | 1819.8 |
| 2.5°  | 1806.9 | 1807.5 | 1810.4 | 1813.9 | 1816.9 | 1824.5 | 1826.3 | 1829.2 | 1830.4 | 1833.3 | 1833.3 |
| 5°    | 1791.0 | 1792.2 | 1799.3 | 1808.6 | 1819.2 | 1838.0 | 1851.5 | 1866.7 | 1874.4 | 1882.6 | 1882.0 |
| 7.5°  | 1789.3 | 1792.2 | 1802.2 | 1817.4 | 1835.1 | 1866.2 | 1894.3 | 1924.8 | 1945.4 | 1964.2 | 1963.0 |
| 10°   | 1807.5 | 1812.2 | 1826.3 | 1849.1 | 1875.5 | 1914.3 | 1955.9 | 1997.0 | 2032.8 | 2061.6 | 2062.7 |
| 12.5° | 1835.1 | 1840.9 | 1863.2 | 1897.8 | 1937.8 | 1987.6 | 2036.9 | 2083.3 | 2132.6 | 2175.4 | 2178.9 |
| 15°   | 1871.4 | 1879.1 | 1912.5 | 1964.2 | 2025.2 | 2084.5 | 2137.3 | 2184.8 | 2241.7 | 2301.0 | 2306.9 |
| 17.5° | 1925.4 | 1936.0 | 1980.0 | 2049.8 | 2130.2 | 2195.4 | 2250.5 | 2286.3 | 2333.9 | 2394.9 | 2406.1 |
| 20°   | 2007.6 | 2021.1 | 2076.8 | 2160.2 | 2258.2 | 2326.2 | 2368.5 | 2376.1 | 2399.6 | 2454.2 | 2467.1 |
| 22.5° | 2114.4 | 2126.1 | 2188.3 | 2287.5 | 2397.2 | 2471.2 | 2493.5 | 2463.0 | 2460.6 | 2504.6 | 2517.0 |
| 25°   | 2233.5 | 2244.1 | 2316.3 | 2427.8 | 2545.7 | 2627.3 | 2626.7 | 2567.4 | 2526.4 | 2560.4 | 2573.3 |
| 27.5° | 2367.3 | 2383.8 | 2453.0 | 2570.4 | 2696.5 | 2776.9 | 2772.2 | 2680.7 | 2602.6 | 2611.4 | 2622.6 |
| 30°   | 2521.1 | 2539.3 | 2606.8 | 2725.9 | 2852.1 | 2930.7 | 2924.8 | 2803.9 | 2686.6 | 2663.1 | 2671.3 |
| 32.5° | 2711.8 | 2733.5 | 2797.5 | 2914.8 | 3026.3 | 3097.4 | 3080.3 | 2937.7 | 2787.5 | 2736.4 | 2744.1 |
| 35°   | 2941.3 | 2954.2 | 3021.6 | 3137.3 | 3227.6 | 3276.3 | 3240.5 | 3092.7 | 2915.4 | 2853.8 | 2853.8 |
| 37.5° | 3173.6 | 3183.6 | 3259.3 | 3371.4 | 3458.8 | 3484.7 | 3414.8 | 3262.3 | 3082.7 | 2995.2 | 2997.0 |
| 40°   | 3396.6 | 3423.6 | 3508.7 | 3623.7 | 3710.0 | 3717.1 | 3624.3 | 3455.9 | 3268.7 | 3178.3 | 3188.9 |
| 42.5° | 3629.6 | 3656.0 | 3757.5 | 3887.8 | 3964.1 | 3975.9 | 3867.3 | 3673.0 | 3478.8 | 3405.4 | 3417.2 |
| 45°   | 3837.4 | 3858.5 | 3975.9 | 4127.3 | 4222.3 | 4252.8 | 4124.3 | 3921.9 | 3705.9 | 3634.3 | 3637.2 |
| 47.5° | 3982.3 | 4009.9 | 4139.0 | 4317.4 | 4455.9 | 4502.8 | 4376.7 | 4164.2 | 3929.5 | 3842.6 | 3850.3 |
| 50°   | 4113.8 | 4128.4 | 4259.3 | 4454.1 | 4630.2 | 4727.0 | 4619.0 | 4403.7 | 4155.4 | 4063.3 | 4071.5 |
| 52.5° | 4187.1 | 4205.9 | 4332.7 | 4535.7 | 4744.0 | 4900.1 | 4834.4 | 4619.0 | 4373.7 | 4283.9 | 4293.9 |
| 55°   | 4136.1 | 4150.1 | 4302.1 | 4553.9 | 4814.4 | 5006.9 | 5016.9 | 4829.7 | 4587.9 | 4509.3 | 4537.5 |
| 57.5° | 3903.7 | 3921.3 | 4106.7 | 4436.5 | 4823.3 | 5079.1 | 5154.2 | 5025.1 | 4788.0 | 4724.1 | 4740.5 |
| 60°   | 3540.4 | 3551.6 | 3749.3 | 4120.2 | 4651.9 | 5109.0 | 5241.7 | 5184.7 | 4984.0 | 4920.1 | 4942.4 |
| 62.5° | 2893.1 | 2909.6 | 3146.1 | 3643.1 | 4289.8 | 5020.4 | 5326.2 | 5316.8 | 5166.6 | 5107.9 | 5127.8 |
| 65°   | 1977.7 | 2006.4 | 2268.1 | 2896.7 | 3731.7 | 4749.3 | 5403.1 | 5470.5 | 5327.9 | 5254.0 | 5280.4 |
| 67.5° | 1194.2 | 1215.3 | 1404.9 | 1912.5 | 2855.6 | 4202.4 | 5323.8 | 5645.4 | 5441.8 | 5322.7 | 5344.4 |
| 68°   | 1067.5 | 1086.8 | 1245.3 | 1725.9 | 2641.4 | 4048.0 | 5251.6 | 5665.4 | 5454.1 | 5321.5 | 5340.8 |
| 70°   | 644.9  | 657.8  | 764.1  | 1066.9 | 1761.1 | 3211.2 | 4759.3 | 5648.9 | 5532.7 | 5337.9 | 5349.1 |
| 72.5° | 420.2  | 424.3  | 441.9  | 547.5  | 899.6  | 1795.7 | 3572.1 | 5264.0 | 5650.7 | 5433.6 | 5431.8 |
| 75°   | 349.2  | 346.8  | 348.6  | 360.9  | 443.7  | 787.5  | 2087.4 | 4158.4 | 5386.6 | 5282.7 | 5245.8 |
| 77.5° | 295.2  | 293.4  | 292.8  | 293.4  | 296.9  | 380.3  | 906.1  | 2590.3 | 4122.0 | 4673.0 | 4705.9 |
| 80°   | 238.8  | 236.5  | 244.1  | 240.6  | 230.0  | 236.5  | 379.7  | 1077.4 | 1943.0 | 2090.3 | 1958.9 |
| 82.5° | 173.7  | 164.9  | 197.8  | 188.4  | 179.6  | 166.7  | 209.5  | 348.0  | 463.6  | 318.1  | 223.6  |
| 85°   | 133.8  | 124.4  | 150.2  | 144.4  | 123.2  | 85.1   | 124.4  | 170.2  | 187.8  | 107.4  | 84.5   |
| 87.5° | 54.6   | 57.5   | 108.6  | 85.7   | 72.2   | 41.1   | 51.1   | 68.1   | 91.5   | 45.8   | 35.2   |
| 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)