

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: P317007

Luminaire Tested: **GAN-SA3C-722-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3C-722-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16375 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

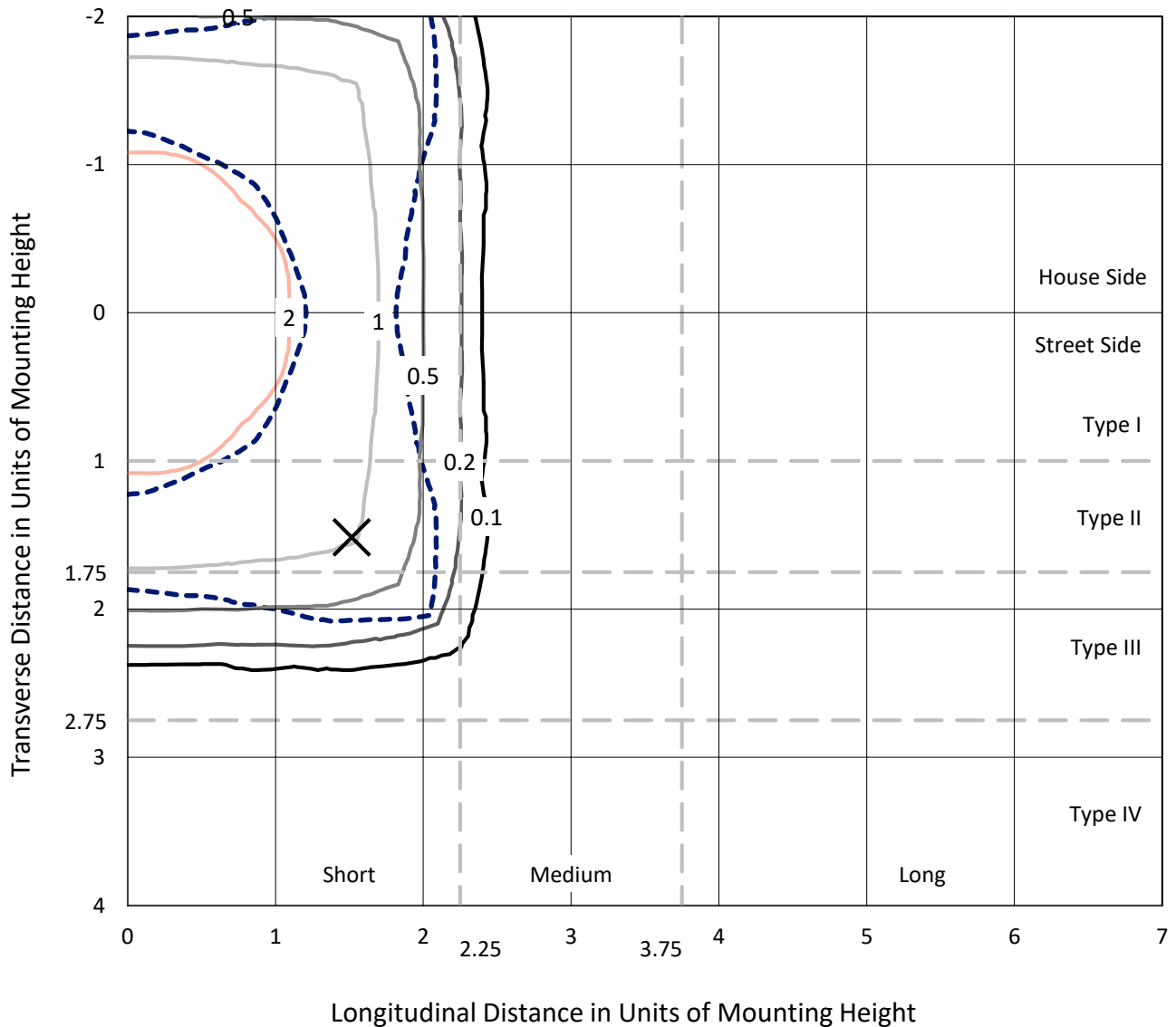
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

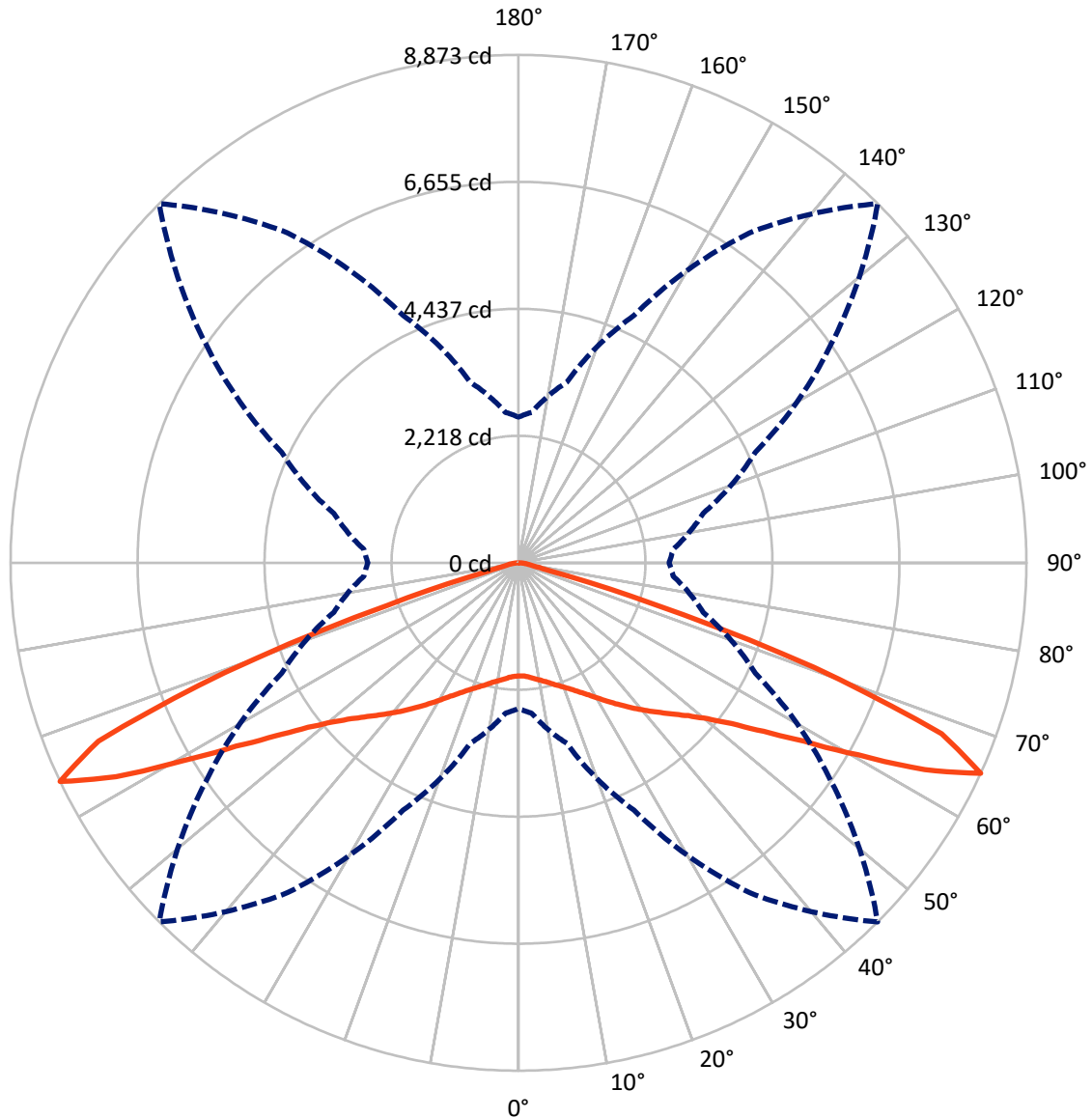
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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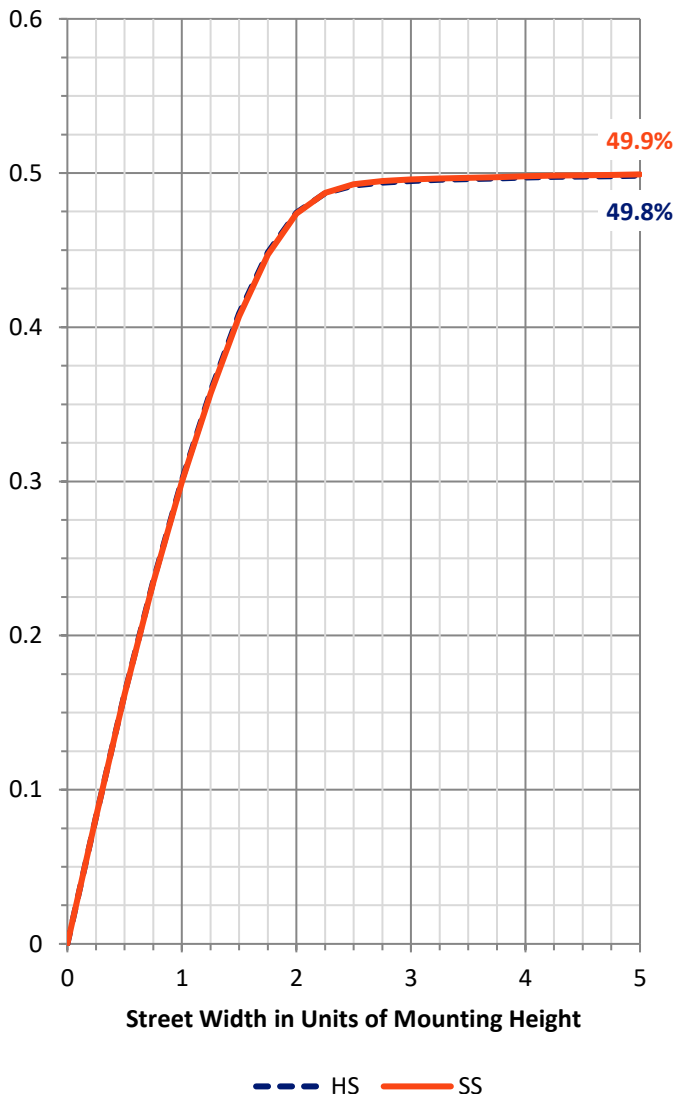
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8187.5   | 0.0    | 8187.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8187.5   | 0.0    | 8187.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16375.0  | 0.0    | 16375.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 194.0   | 1.2       |
| 10°-20°   | 623.6   | 3.8       |
| 20°-30°   | 1170.0  | 7.1       |
| 30°-40°   | 1935.0  | 11.8      |
| 40°-50°   | 2997.1  | 18.3      |
| 50°-60°   | 4596.7  | 28.1      |
| 60°-70°   | 4289.2  | 26.2      |
| 70°-80°   | 499.2   | 3.0       |
| 80°-90°   | 70.1    | 0.4       |
| 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°    | 16375.0 | 100.0     |
| 0°-180°   | 16375.0 | 100.0     |

**Coefficient of Utilization**



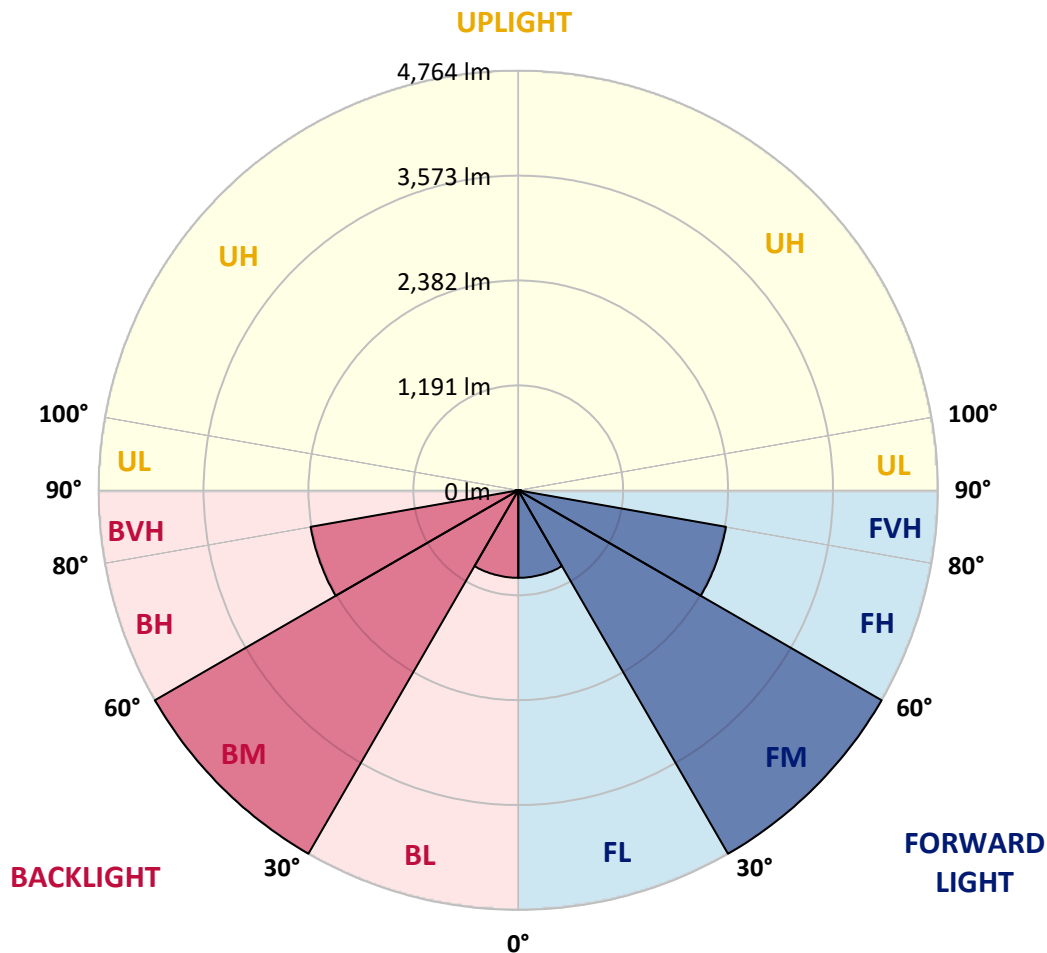
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 993.8  | 6.1       |                         |      |         |
| FM (30°-60°)   | 4764.4 | 29.1      |                         |      |         |
| FH (60°-80°)   | 2394.2 | 14.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 35.1   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 993.8  | 6.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 4764.4 | 29.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2394.2 | 14.6      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 35.1   | 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°    | 1977.5 | 1977.5 | 1977.5 | 1977.5 | 1977.5 | 1977.5 | 1977.5 | 1977.5 | 1977.5 | 1977.5 | 1977.5 |
| 2.5°  | 1984.0 | 1982.9 | 1984.0 | 1984.6 | 1981.3 | 1982.9 | 1982.4 | 1985.1 | 1986.2 | 1985.1 | 1985.1 |
| 5°    | 2006.8 | 2005.2 | 2007.4 | 2010.1 | 2005.8 | 2006.8 | 2005.2 | 2008.5 | 2009.6 | 2007.4 | 2009.0 |
| 7.5°  | 2038.4 | 2038.9 | 2041.1 | 2046.0 | 2043.3 | 2045.4 | 2042.2 | 2042.7 | 2042.2 | 2038.9 | 2039.5 |
| 10°   | 2072.6 | 2073.2 | 2077.0 | 2083.5 | 2084.6 | 2084.6 | 2082.4 | 2080.8 | 2078.6 | 2076.4 | 2077.0 |
| 12.5° | 2113.9 | 2116.6 | 2119.4 | 2127.5 | 2127.5 | 2131.9 | 2130.8 | 2126.4 | 2122.6 | 2119.4 | 2119.4 |
| 15°   | 2169.9 | 2169.4 | 2172.6 | 2180.8 | 2184.6 | 2191.7 | 2191.7 | 2185.7 | 2180.8 | 2177.5 | 2176.4 |
| 17.5° | 2228.6 | 2230.2 | 2232.4 | 2242.2 | 2248.2 | 2256.3 | 2257.4 | 2252.5 | 2249.3 | 2244.9 | 2242.2 |
| 20°   | 2297.1 | 2299.8 | 2308.5 | 2312.3 | 2317.8 | 2325.4 | 2328.1 | 2327.0 | 2323.7 | 2321.6 | 2322.1 |
| 22.5° | 2377.0 | 2384.1 | 2389.5 | 2394.9 | 2401.5 | 2406.9 | 2409.6 | 2413.4 | 2410.2 | 2408.5 | 2407.4 |
| 25°   | 2473.8 | 2478.7 | 2489.5 | 2499.3 | 2503.7 | 2505.3 | 2508.6 | 2514.0 | 2513.4 | 2509.6 | 2509.6 |
| 27.5° | 2583.6 | 2592.8 | 2606.4 | 2620.5 | 2620.5 | 2615.1 | 2626.0 | 2635.2 | 2631.9 | 2627.0 | 2620.5 |
| 30°   | 2716.7 | 2725.4 | 2741.2 | 2760.8 | 2751.0 | 2747.2 | 2761.9 | 2778.7 | 2773.8 | 2765.7 | 2764.6 |
| 32.5° | 2860.2 | 2868.4 | 2889.0 | 2910.2 | 2897.7 | 2892.3 | 2908.1 | 2932.5 | 2923.8 | 2907.5 | 2897.7 |
| 35°   | 3015.7 | 3023.9 | 3053.2 | 3078.8 | 3057.6 | 3048.3 | 3061.4 | 3088.0 | 3072.8 | 3042.3 | 3034.7 |
| 37.5° | 3184.7 | 3189.1 | 3227.1 | 3253.2 | 3238.6 | 3214.1 | 3230.4 | 3250.0 | 3236.9 | 3200.0 | 3185.3 |
| 40°   | 3360.3 | 3376.1 | 3420.1 | 3450.5 | 3425.0 | 3386.4 | 3413.6 | 3440.8 | 3421.2 | 3373.9 | 3348.9 |
| 42.5° | 3565.2 | 3577.2 | 3635.9 | 3663.1 | 3621.8 | 3567.4 | 3604.4 | 3641.3 | 3621.8 | 3576.1 | 3554.4 |
| 45°   | 3778.3 | 3796.8 | 3866.9 | 3894.1 | 3834.3 | 3765.3 | 3810.4 | 3875.1 | 3873.4 | 3807.7 | 3784.8 |
| 47.5° | 4010.4 | 4028.9 | 4112.6 | 4148.5 | 4083.8 | 3991.4 | 4055.0 | 4146.3 | 4139.8 | 4067.5 | 4049.0 |
| 50°   | 4278.4 | 4298.0 | 4402.3 | 4447.4 | 4387.1 | 4279.5 | 4375.2 | 4455.6 | 4443.6 | 4354.5 | 4356.1 |
| 52.5° | 4614.9 | 4613.8 | 4743.7 | 4822.0 | 4760.0 | 4664.9 | 4752.9 | 4831.2 | 4781.7 | 4658.4 | 4654.5 |
| 55°   | 4909.5 | 4927.4 | 5088.3 | 5236.7 | 5232.9 | 5196.5 | 5231.8 | 5235.1 | 5093.7 | 4929.6 | 4909.5 |
| 57.5° | 5103.0 | 5137.2 | 5363.9 | 5632.4 | 5833.5 | 5881.9 | 5813.4 | 5605.8 | 5274.8 | 5012.2 | 4980.1 |
| 60°   | 4983.9 | 5036.1 | 5392.2 | 5939.5 | 6532.0 | 6816.3 | 6429.8 | 5785.7 | 5134.0 | 4768.2 | 4724.7 |
| 62.5° | 4180.6 | 4268.6 | 4789.9 | 5791.1 | 7133.2 | 7964.3 | 6876.6 | 5497.1 | 4574.1 | 4070.2 | 3995.7 |
| 65°   | 2546.1 | 2639.0 | 3267.4 | 4766.5 | 7035.9 | 8873.2 | 6672.8 | 4562.7 | 3338.6 | 2711.8 | 2631.4 |
| 67.5° | 848.5  | 875.7  | 1245.9 | 2634.7 | 5529.7 | 7972.5 | 5538.9 | 2731.4 | 1452.9 | 963.2  | 934.9  |
| 70°   | 332.1  | 334.8  | 395.2  | 763.7  | 2611.3 | 5475.9 | 2881.4 | 777.3  | 413.1  | 326.7  | 333.7  |
| 72.5° | 244.1  | 245.1  | 262.0  | 319.1  | 680.5  | 2412.3 | 705.0  | 320.7  | 254.9  | 228.8  | 228.8  |
| 75°   | 196.2  | 196.2  | 208.2  | 232.6  | 304.9  | 553.3  | 309.3  | 229.9  | 199.5  | 182.6  | 180.5  |
| 77.5° | 154.9  | 158.2  | 167.4  | 183.2  | 206.6  | 266.3  | 214.2  | 182.1  | 160.9  | 145.1  | 141.9  |
| 80°   | 115.2  | 118.5  | 133.7  | 141.3  | 148.4  | 184.8  | 158.2  | 142.4  | 127.2  | 108.7  | 105.5  |
| 82.5° | 75.6   | 78.8   | 97.8   | 102.2  | 100.6  | 120.7  | 106.5  | 104.9  | 93.5   | 70.1   | 66.9   |
| 85°   | 49.5   | 50.6   | 65.2   | 67.9   | 62.5   | 54.9   | 67.9   | 71.8   | 65.2   | 45.7   | 44.0   |
| 87.5° | 23.4   | 23.4   | 33.2   | 31.0   | 28.3   | 22.8   | 31.0   | 36.4   | 37.0   | 22.3   | 21.7   |
| 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)