

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: P316126

Luminaire Tested: **GAN-SA2C-730-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316126  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2C-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13881 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

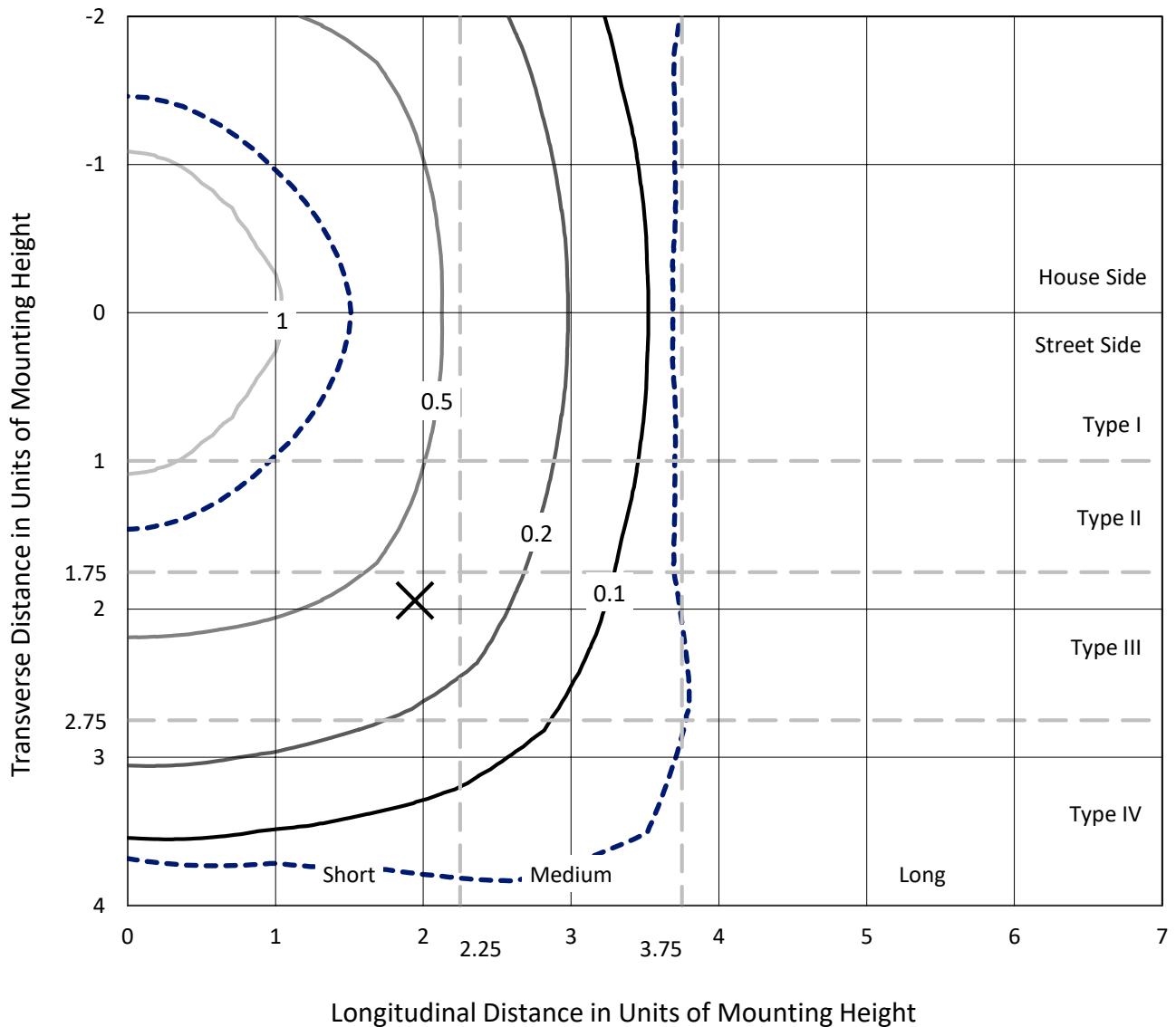
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

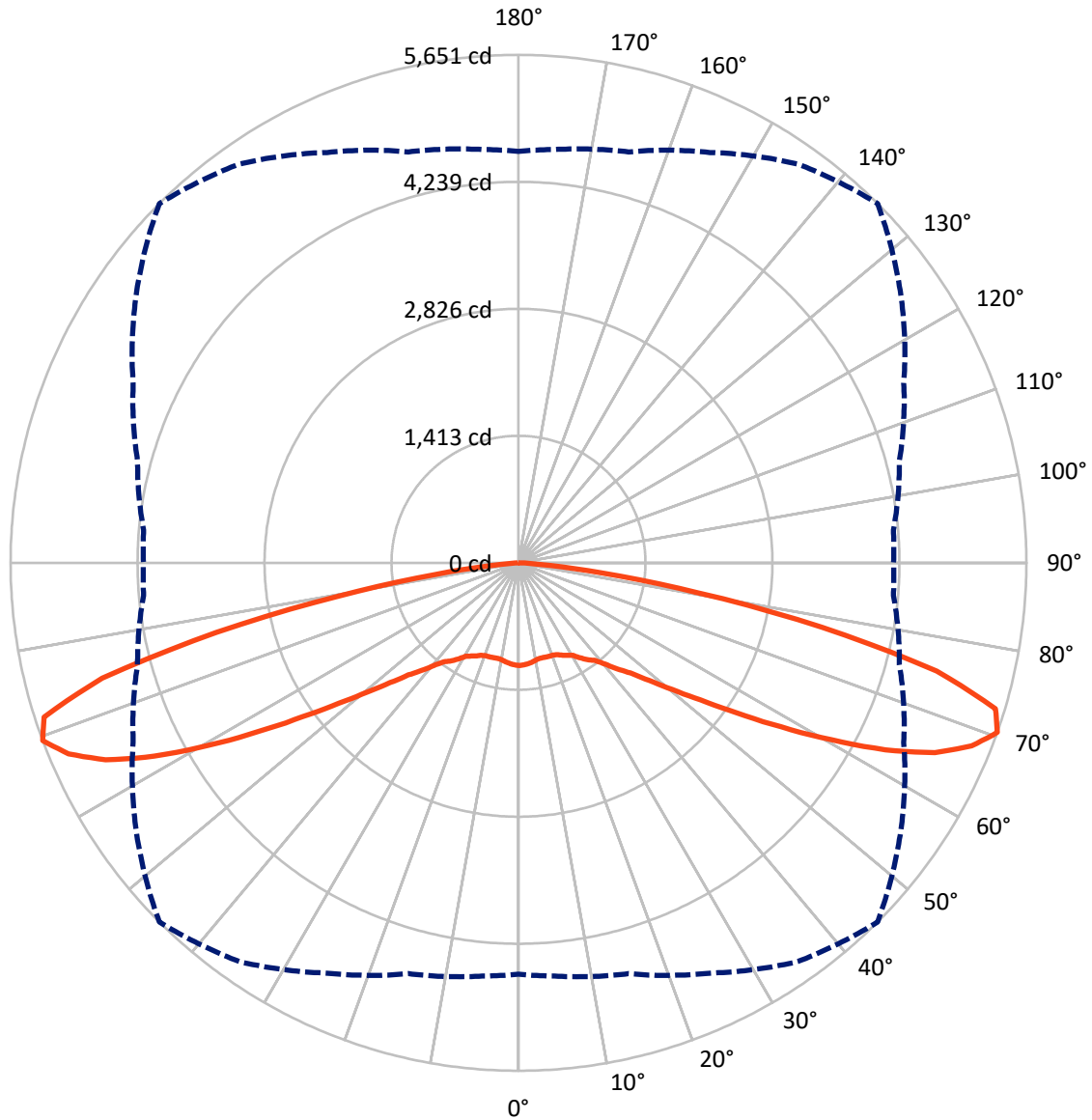
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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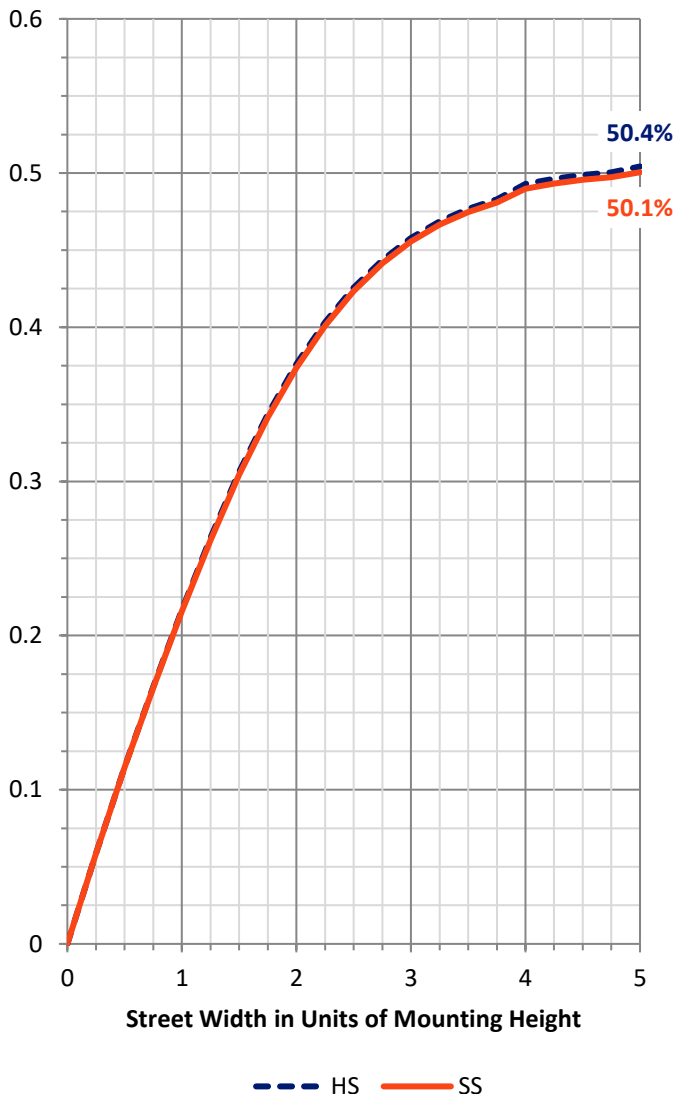
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6940.5   | 0.0    | 6940.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6940.5   | 0.0    | 6940.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13881.0  | 0.0    | 13881.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 106.6   | 0.8       |
| 10°-20°   | 311.5   | 2.2       |
| 20°-30°   | 531.0   | 3.8       |
| 30°-40°   | 829.7   | 6.0       |
| 40°-50°   | 1406.2  | 10.1      |
| 50°-60°   | 2564.3  | 18.5      |
| 60°-70°   | 4414.7  | 31.8      |
| 70°-80°   | 3460.4  | 24.9      |
| 80°-90°   | 256.6   | 1.8       |
| 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°    | 13881.0 | 100.0     |
| 0°-180°   | 13881.0 | 100.0     |

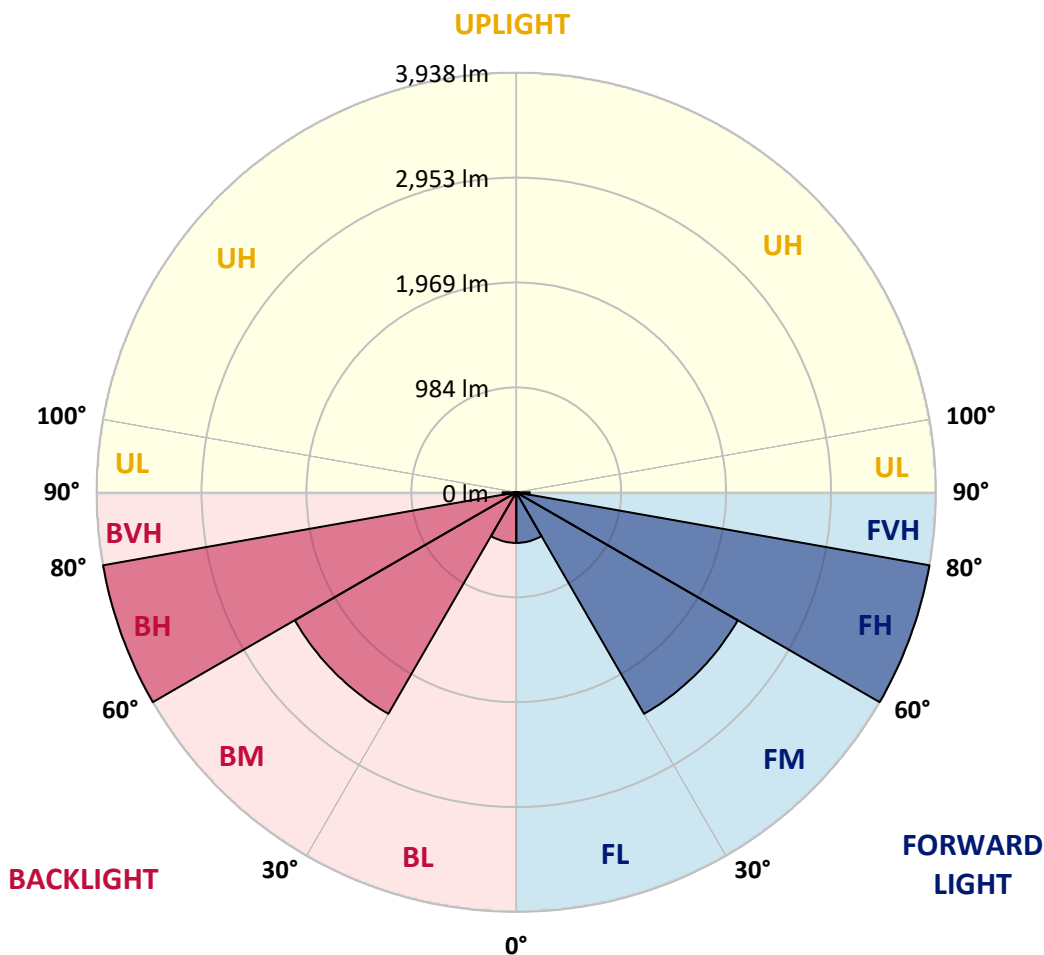


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 474.5  | 3.4       |                         |      |         |
| FM (30°-60°)   | 2400.1 | 17.3      |                         |      |         |
| FH (60°-80°)   | 3937.5 | 28.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 128.3  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 474.5  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 2400.1 | 17.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 3937.5 | 28.4      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 128.3  | 0.9       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1142.4 | 1142.4 | 1142.4 | 1142.4 | 1142.4 | 1142.4 | 1142.4 | 1142.4 | 1142.4 | 1142.4 | 1142.4 |
| 2.5°  | 1137.4 | 1138.7 | 1137.4 | 1138.3 | 1136.0 | 1136.9 | 1136.9 | 1136.9 | 1136.4 | 1136.9 | 1136.0 |
| 5°    | 1127.3 | 1128.2 | 1126.3 | 1127.3 | 1125.9 | 1127.3 | 1127.7 | 1127.3 | 1126.3 | 1126.8 | 1125.0 |
| 7.5°  | 1112.1 | 1113.0 | 1111.6 | 1113.0 | 1111.2 | 1113.5 | 1113.0 | 1111.6 | 1110.3 | 1110.3 | 1108.4 |
| 10°   | 1103.8 | 1104.3 | 1100.6 | 1099.2 | 1095.1 | 1096.0 | 1097.4 | 1098.8 | 1100.2 | 1102.9 | 1102.5 |
| 12.5° | 1104.3 | 1104.3 | 1098.8 | 1092.8 | 1086.8 | 1088.2 | 1090.5 | 1095.6 | 1101.1 | 1106.1 | 1106.6 |
| 15°   | 1108.9 | 1108.4 | 1100.2 | 1090.5 | 1086.4 | 1090.5 | 1091.9 | 1095.1 | 1103.8 | 1112.6 | 1113.0 |
| 17.5° | 1112.1 | 1112.1 | 1099.2 | 1088.2 | 1087.8 | 1094.2 | 1093.7 | 1095.1 | 1104.8 | 1117.6 | 1118.1 |
| 20°   | 1118.1 | 1118.1 | 1101.5 | 1089.6 | 1089.6 | 1096.5 | 1097.0 | 1099.2 | 1108.9 | 1123.1 | 1125.4 |
| 22.5° | 1131.4 | 1131.8 | 1114.4 | 1104.8 | 1105.7 | 1109.8 | 1111.2 | 1114.9 | 1123.6 | 1139.2 | 1141.9 |
| 25°   | 1150.2 | 1151.1 | 1133.2 | 1127.7 | 1130.9 | 1138.7 | 1137.8 | 1140.6 | 1150.2 | 1165.4 | 1168.1 |
| 27.5° | 1176.4 | 1174.1 | 1157.6 | 1155.3 | 1158.5 | 1164.0 | 1163.5 | 1164.0 | 1171.8 | 1185.6 | 1188.8 |
| 30°   | 1210.4 | 1209.4 | 1197.5 | 1198.9 | 1197.5 | 1195.7 | 1196.1 | 1199.8 | 1203.9 | 1215.0 | 1218.2 |
| 32.5° | 1243.4 | 1244.3 | 1237.0 | 1243.9 | 1254.0 | 1260.9 | 1250.3 | 1240.2 | 1235.6 | 1241.6 | 1244.3 |
| 35°   | 1303.1 | 1305.4 | 1293.9 | 1289.3 | 1303.1 | 1323.3 | 1293.5 | 1276.9 | 1286.1 | 1293.9 | 1296.2 |
| 37.5° | 1404.6 | 1406.0 | 1386.7 | 1368.3 | 1358.2 | 1377.5 | 1347.7 | 1349.0 | 1381.2 | 1395.9 | 1395.4 |
| 40°   | 1520.3 | 1520.8 | 1507.9 | 1491.8 | 1474.4 | 1479.0 | 1467.0 | 1470.7 | 1491.8 | 1505.2 | 1508.8 |
| 42.5° | 1658.1 | 1656.7 | 1636.5 | 1613.5 | 1608.5 | 1613.1 | 1592.9 | 1590.1 | 1614.4 | 1638.3 | 1638.8 |
| 45°   | 1836.7 | 1833.5 | 1807.3 | 1782.0 | 1757.7 | 1747.6 | 1742.5 | 1755.9 | 1789.4 | 1811.4 | 1811.9 |
| 47.5° | 2029.1 | 2020.3 | 2006.6 | 1986.4 | 1965.2 | 1955.1 | 1946.9 | 1953.3 | 1977.6 | 1986.4 | 1987.3 |
| 50°   | 2227.0 | 2228.8 | 2231.6 | 2223.7 | 2215.9 | 2212.7 | 2191.1 | 2178.7 | 2186.1 | 2170.0 | 2167.7 |
| 52.5° | 2461.6 | 2465.3 | 2491.9 | 2514.4 | 2527.7 | 2534.6 | 2493.7 | 2451.0 | 2427.2 | 2395.9 | 2386.8 |
| 55°   | 2738.5 | 2744.4 | 2783.5 | 2845.9 | 2910.2 | 2944.2 | 2870.3 | 2790.4 | 2716.4 | 2658.1 | 2639.3 |
| 57.5° | 3047.0 | 3057.6 | 3111.3 | 3231.2 | 3362.9 | 3443.3 | 3318.4 | 3173.3 | 3030.5 | 2946.5 | 2931.8 |
| 60°   | 3408.9 | 3419.0 | 3493.3 | 3665.1 | 3878.6 | 3999.3 | 3810.2 | 3572.8 | 3395.1 | 3314.7 | 3287.6 |
| 62.5° | 3839.6 | 3840.5 | 3931.8 | 4132.5 | 4414.4 | 4582.5 | 4326.3 | 4009.0 | 3825.8 | 3728.9 | 3702.7 |
| 65°   | 4302.9 | 4305.2 | 4399.7 | 4616.5 | 4908.0 | 5090.8 | 4801.5 | 4470.9 | 4246.8 | 4104.0 | 4083.8 |
| 67.5° | 4630.2 | 4639.9 | 4739.5 | 5000.3 | 5273.1 | 5437.9 | 5138.5 | 4764.8 | 4505.8 | 4335.5 | 4318.5 |
| 70°   | 4577.9 | 4615.5 | 4732.6 | 5037.1 | 5416.3 | 5651.4 | 5193.2 | 4729.9 | 4388.3 | 4187.1 | 4172.9 |
| 72.5° | 3992.5 | 4064.5 | 4220.7 | 4620.1 | 5226.7 | 5550.4 | 4895.2 | 4236.3 | 3849.7 | 3678.4 | 3652.7 |
| 75°   | 2718.7 | 2835.8 | 3071.4 | 3647.6 | 4465.4 | 4805.6 | 4121.0 | 3377.6 | 3014.0 | 2777.0 | 2759.6 |
| 77.5° | 1212.2 | 1238.8 | 1537.3 | 2200.8 | 3081.5 | 3451.1 | 2994.2 | 2209.5 | 1658.5 | 1322.9 | 1252.1 |
| 80°   | 337.9  | 342.1  | 456.4  | 819.6  | 1542.3 | 2027.7 | 1655.8 | 860.9  | 484.0  | 341.2  | 321.4  |
| 82.5° | 107.4  | 116.6  | 142.3  | 212.6  | 518.4  | 925.2  | 532.2  | 229.6  | 163.5  | 130.4  | 117.5  |
| 85°   | 52.3   | 51.9   | 72.1   | 86.3   | 132.2  | 204.8  | 141.0  | 106.5  | 93.2   | 62.0   | 56.0   |
| 87.5° | 22.0   | 22.5   | 33.5   | 30.3   | 38.6   | 33.1   | 45.5   | 47.8   | 50.0   | 27.6   | 23.9   |
| 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)