

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: P316325

Luminaire Tested: **GAN-SA1C-830-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316325  
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-SA1C-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6198 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

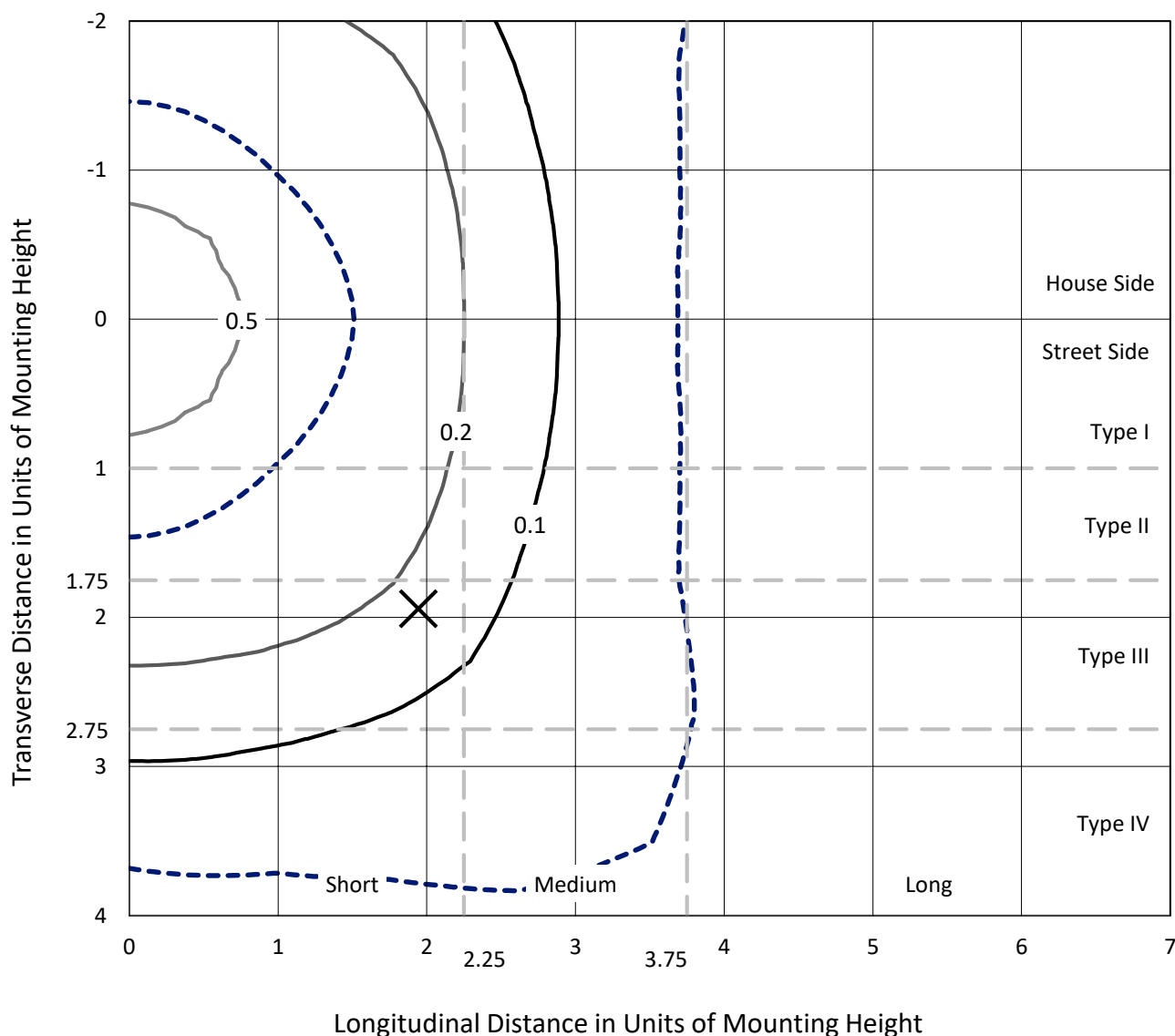
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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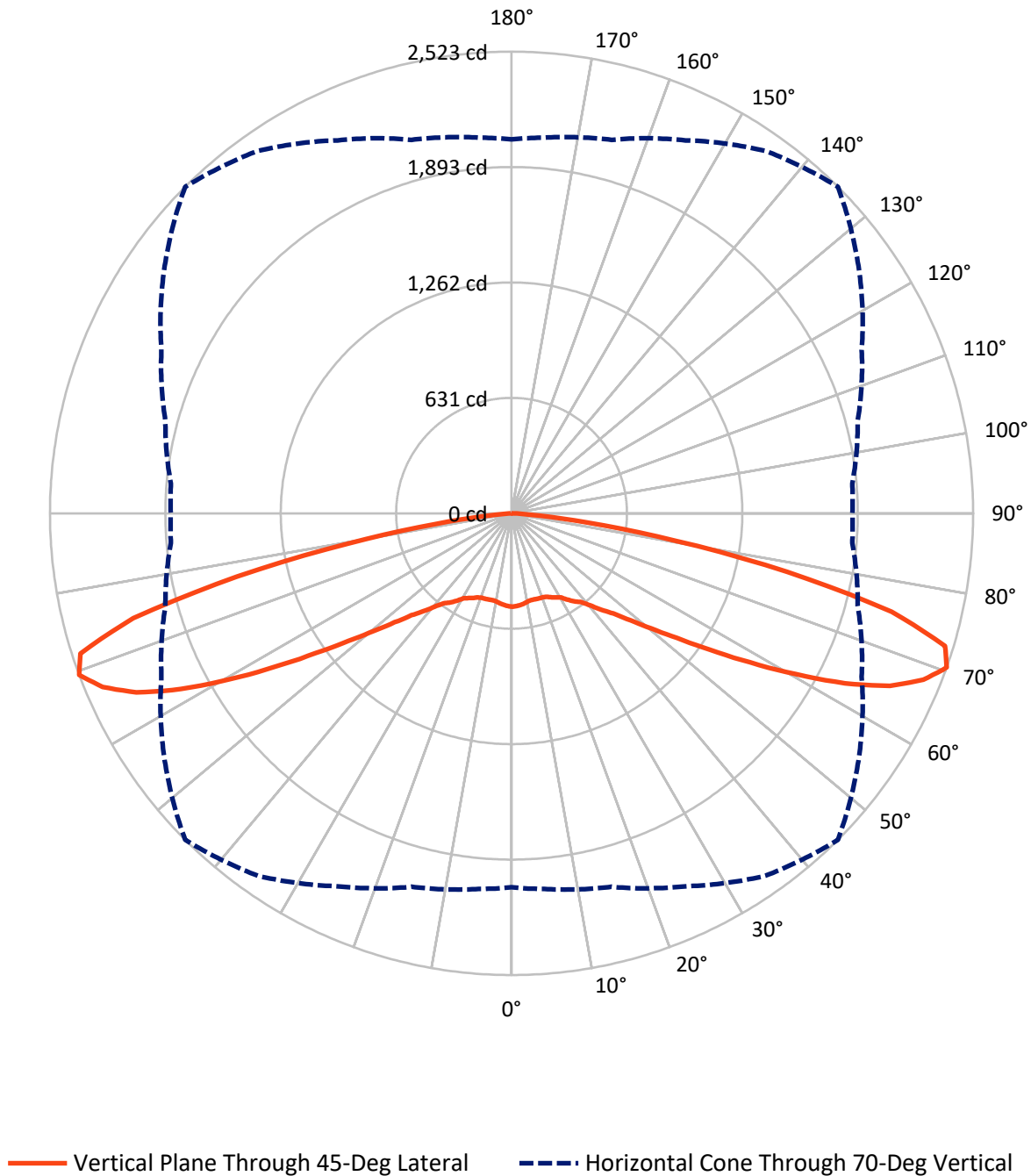
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



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## Luminous Intensity Polar Plot



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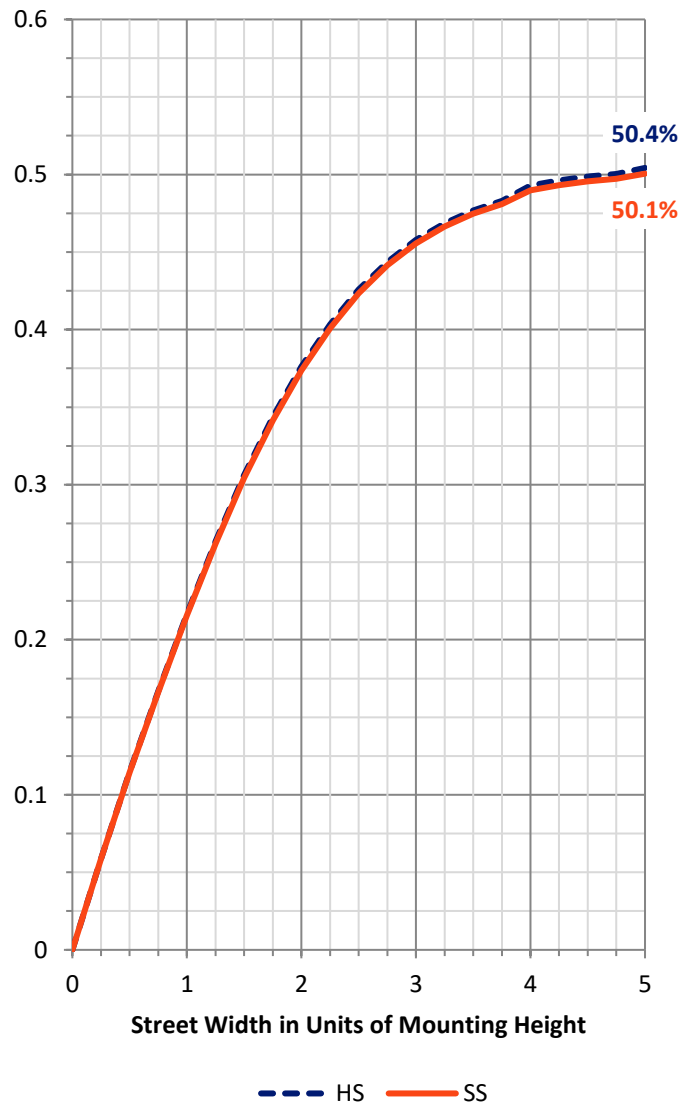
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3099.0   | 0.0    | 3099.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3099.0   | 0.0    | 3099.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6198.0   | 0.0    | 6198.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.6   | 0.8       |
| 10°-20°   | 139.1  | 2.2       |
| 20°-30°   | 237.1  | 3.8       |
| 30°-40°   | 370.5  | 6.0       |
| 40°-50°   | 627.9  | 10.1      |
| 50°-60°   | 1145.0 | 18.5      |
| 60°-70°   | 1971.2 | 31.8      |
| 70°-80°   | 1545.1 | 24.9      |
| 80°-90°   | 114.6  | 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°    | 6198.0 | 100.0     |
| 0°-180°   | 6198.0 | 100.0     |

**Coefficient of Utilization**



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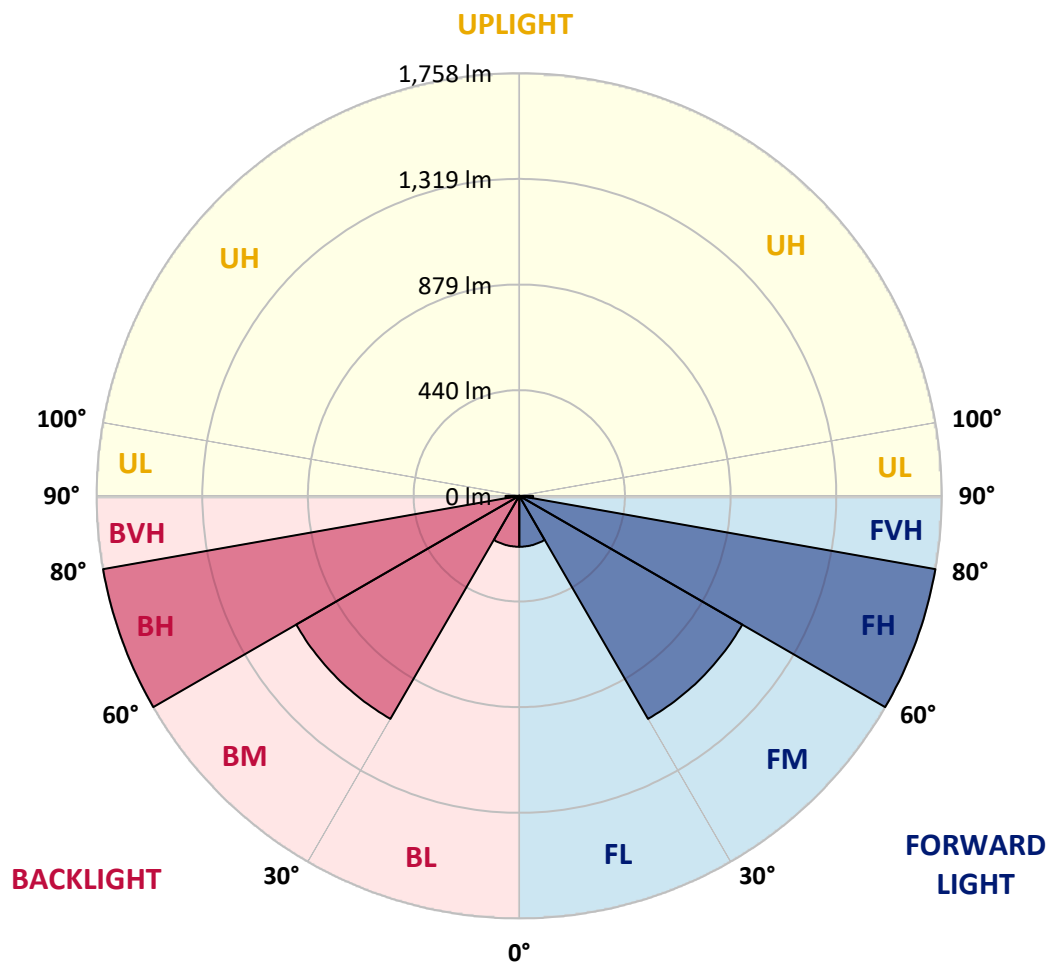
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 211.9  | 3.4       |                         |      |         |
| FM   | (30°-60°)   | 1071.7 | 17.3      |                         |      |         |
| FH   | (60°-80°)   | 1758.1 | 28.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 57.3   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 211.9  | 3.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1071.7 | 17.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1758.1 | 28.4      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 57.3   | 0.9       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 510.1  | 510.1  | 510.1  | 510.1  | 510.1  | 510.1  | 510.1  | 510.1  | 510.1  | 510.1  | 510.1  |
| 2.5°  | 507.8  | 508.5  | 507.8  | 508.3  | 507.2  | 507.6  | 507.6  | 507.6  | 507.4  | 507.6  | 507.2  |
| 5°    | 503.3  | 503.7  | 502.9  | 503.3  | 502.7  | 503.3  | 503.5  | 503.3  | 502.9  | 503.1  | 502.3  |
| 7.5°  | 496.6  | 497.0  | 496.4  | 497.0  | 496.2  | 497.2  | 497.0  | 496.4  | 495.7  | 495.7  | 494.9  |
| 10°   | 492.9  | 493.1  | 491.4  | 490.8  | 489.0  | 489.4  | 490.0  | 490.6  | 491.2  | 492.5  | 492.3  |
| 12.5° | 493.1  | 493.1  | 490.6  | 488.0  | 485.3  | 485.9  | 486.9  | 489.2  | 491.6  | 493.9  | 494.1  |
| 15°   | 495.1  | 494.9  | 491.2  | 486.9  | 485.1  | 486.9  | 487.5  | 489.0  | 492.9  | 496.8  | 497.0  |
| 17.5° | 496.6  | 496.6  | 490.8  | 485.9  | 485.7  | 488.6  | 488.4  | 489.0  | 493.3  | 499.0  | 499.2  |
| 20°   | 499.2  | 499.2  | 491.8  | 486.5  | 486.5  | 489.6  | 489.8  | 490.8  | 495.1  | 501.5  | 502.5  |
| 22.5° | 505.2  | 505.4  | 497.6  | 493.3  | 493.7  | 495.5  | 496.2  | 497.8  | 501.7  | 508.7  | 509.9  |
| 25°   | 513.6  | 514.0  | 506.0  | 503.5  | 505.0  | 508.5  | 508.0  | 509.3  | 513.6  | 520.3  | 521.6  |
| 27.5° | 525.3  | 524.2  | 516.9  | 515.8  | 517.3  | 519.7  | 519.5  | 519.7  | 523.2  | 529.4  | 530.8  |
| 30°   | 540.4  | 540.0  | 534.7  | 535.3  | 534.7  | 533.9  | 534.1  | 535.7  | 537.6  | 542.5  | 543.9  |
| 32.5° | 555.2  | 555.6  | 552.3  | 555.4  | 559.9  | 563.0  | 558.3  | 553.8  | 551.7  | 554.4  | 555.6  |
| 35°   | 581.9  | 582.9  | 577.8  | 575.7  | 581.9  | 590.9  | 577.5  | 570.2  | 574.3  | 577.8  | 578.8  |
| 37.5° | 627.2  | 627.8  | 619.2  | 611.0  | 606.5  | 615.1  | 601.7  | 602.4  | 616.7  | 623.3  | 623.1  |
| 40°   | 678.8  | 679.0  | 673.3  | 666.1  | 658.3  | 660.4  | 655.0  | 656.7  | 666.1  | 672.1  | 673.7  |
| 42.5° | 740.3  | 739.7  | 730.7  | 720.4  | 718.2  | 720.2  | 711.2  | 710.0  | 720.9  | 731.5  | 731.7  |
| 45°   | 820.1  | 818.7  | 807.0  | 795.7  | 784.8  | 780.3  | 778.1  | 784.0  | 799.0  | 808.8  | 809.0  |
| 47.5° | 906.0  | 902.1  | 895.9  | 886.9  | 877.5  | 873.0  | 869.3  | 872.2  | 883.0  | 886.9  | 887.3  |
| 50°   | 994.4  | 995.2  | 996.4  | 992.9  | 989.4  | 988.0  | 978.4  | 972.8  | 976.1  | 968.9  | 967.9  |
| 52.5° | 1099.1 | 1100.8 | 1112.7 | 1122.7 | 1128.6 | 1131.7 | 1113.5 | 1094.4 | 1083.7 | 1069.8 | 1065.7 |
| 55°   | 1222.8 | 1225.4 | 1242.8 | 1270.7 | 1299.4 | 1314.6 | 1281.6 | 1245.9 | 1212.9 | 1186.9 | 1178.5 |
| 57.5° | 1360.5 | 1365.2 | 1389.2 | 1442.7 | 1501.6 | 1537.5 | 1481.7 | 1416.9 | 1353.1 | 1315.6 | 1309.1 |
| 60°   | 1522.1 | 1526.6 | 1559.8 | 1636.5 | 1731.8 | 1785.7 | 1701.3 | 1595.3 | 1515.9 | 1480.1 | 1468.0 |
| 62.5° | 1714.4 | 1714.8 | 1755.6 | 1845.2 | 1971.1 | 2046.1 | 1931.7 | 1790.1 | 1708.2 | 1665.0 | 1653.3 |
| 65°   | 1921.3 | 1922.3 | 1964.5 | 2061.3 | 2191.5 | 2273.1 | 2143.9 | 1996.3 | 1896.3 | 1832.5 | 1823.5 |
| 67.5° | 2067.4 | 2071.8 | 2116.2 | 2232.7 | 2354.5 | 2428.1 | 2294.4 | 2127.5 | 2011.9 | 1935.8 | 1928.2 |
| 70°   | 2044.1 | 2060.9 | 2113.2 | 2249.1 | 2418.4 | 2523.4 | 2318.8 | 2111.9 | 1959.4 | 1869.6 | 1863.2 |
| 72.5° | 1782.7 | 1814.9 | 1884.6 | 2062.9 | 2333.8 | 2478.3 | 2185.7 | 1891.5 | 1718.9 | 1642.4 | 1631.0 |
| 75°   | 1213.9 | 1266.2 | 1371.4 | 1628.7 | 1993.8 | 2145.8 | 1840.1 | 1508.1 | 1345.8 | 1240.0 | 1232.2 |
| 77.5° | 541.3  | 553.2  | 686.4  | 982.7  | 1375.9 | 1540.9 | 1337.0 | 986.6  | 740.5  | 590.7  | 559.1  |
| 80°   | 150.9  | 152.7  | 203.8  | 366.0  | 688.7  | 905.4  | 739.3  | 384.4  | 216.1  | 152.3  | 143.5  |
| 82.5° | 48.0   | 52.1   | 63.6   | 94.9   | 231.5  | 413.1  | 237.6  | 102.5  | 73.0   | 58.2   | 52.5   |
| 85°   | 23.4   | 23.2   | 32.2   | 38.5   | 59.0   | 91.4   | 62.9   | 47.6   | 41.6   | 27.7   | 25.0   |
| 87.5° | 9.8    | 10.0   | 15.0   | 13.5   | 17.2   | 14.8   | 20.3   | 21.3   | 22.3   | 12.3   | 10.7   |
| 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)