

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: P527160

Luminaire Tested: **GLAN-SA2A-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2A-830-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6199 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

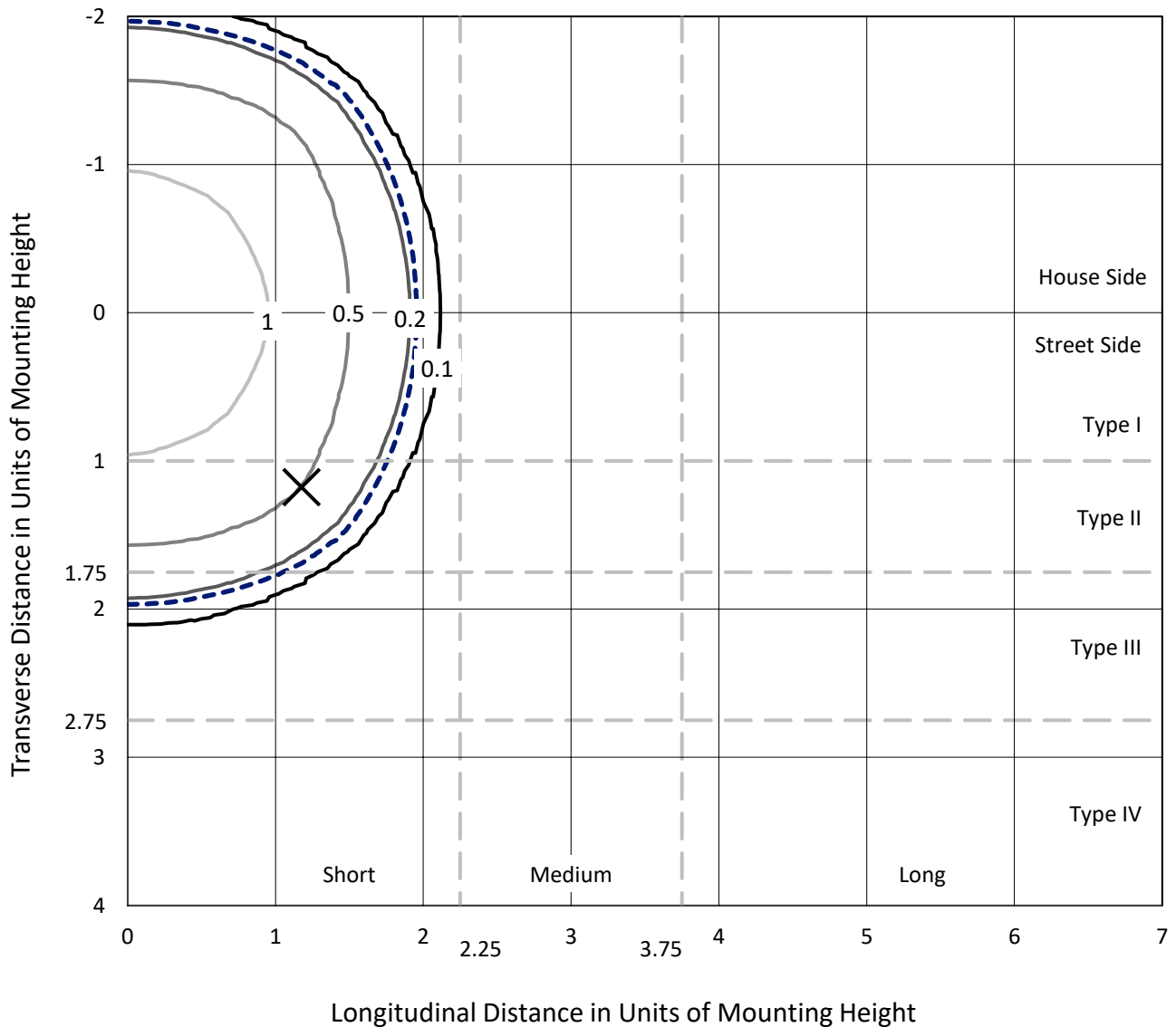
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

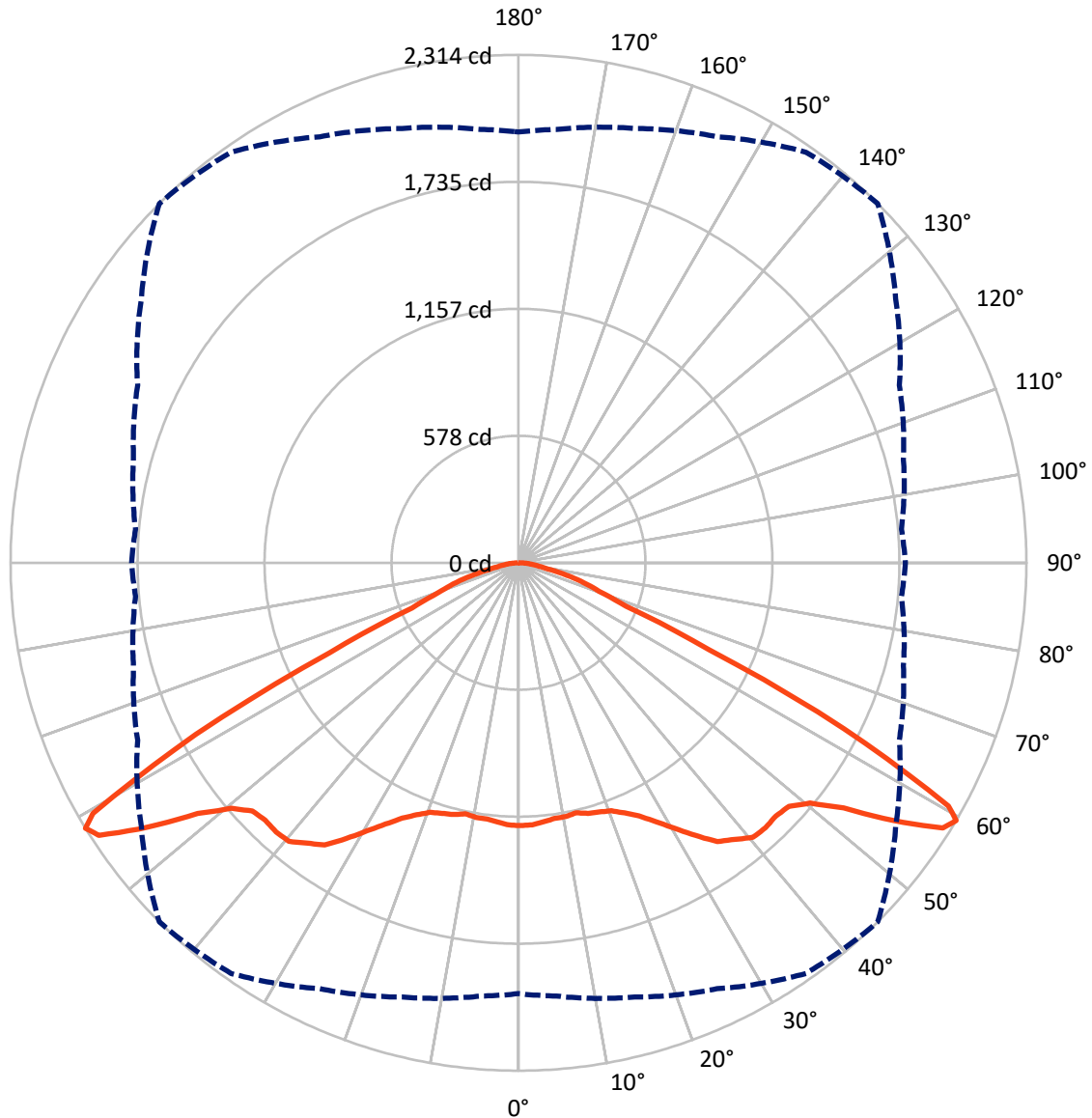
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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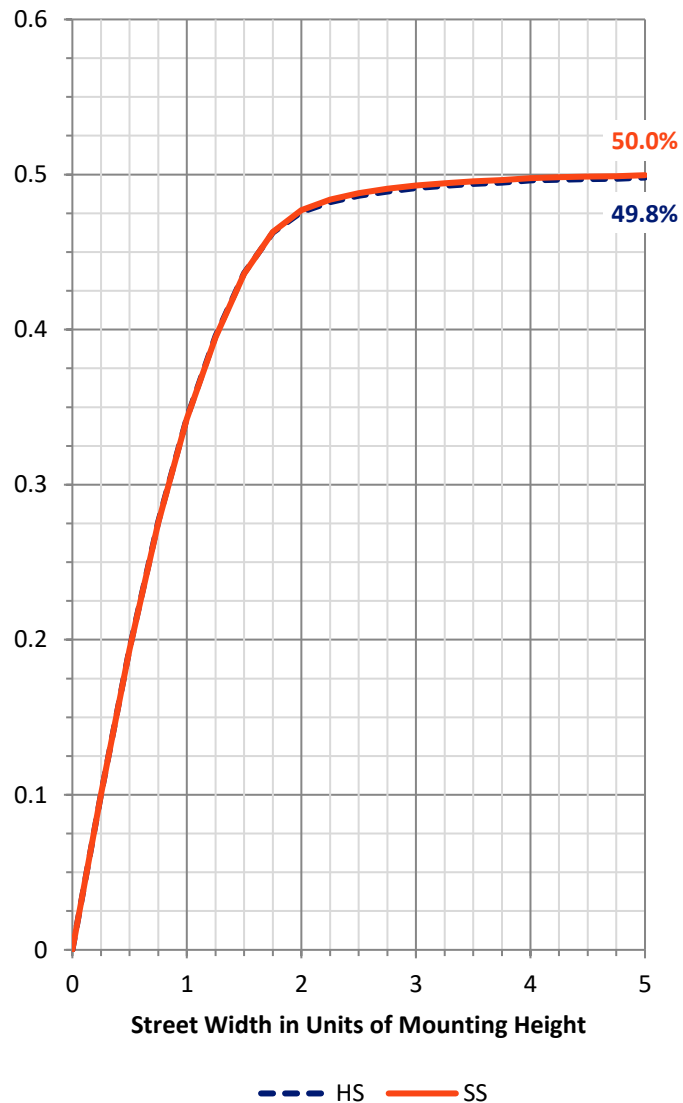
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3099.5   | 0.0    | 3099.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3099.5   | 0.0    | 3099.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6199.0   | 0.0    | 6199.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.9  | 1.8       |
| 10°-20°   | 335.7  | 5.4       |
| 20°-30°   | 586.1  | 9.5       |
| 30°-40°   | 936.1  | 15.1      |
| 40°-50°   | 1275.1 | 20.6      |
| 50°-60°   | 1724.3 | 27.8      |
| 60°-70°   | 945.6  | 15.3      |
| 70°-80°   | 241.9  | 3.9       |
| 80°-90°   | 41.3   | 0.7       |
| 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°    | 6199.0 | 100.0     |
| 0°-180°   | 6199.0 | 100.0     |

**Coefficient of Utilization**



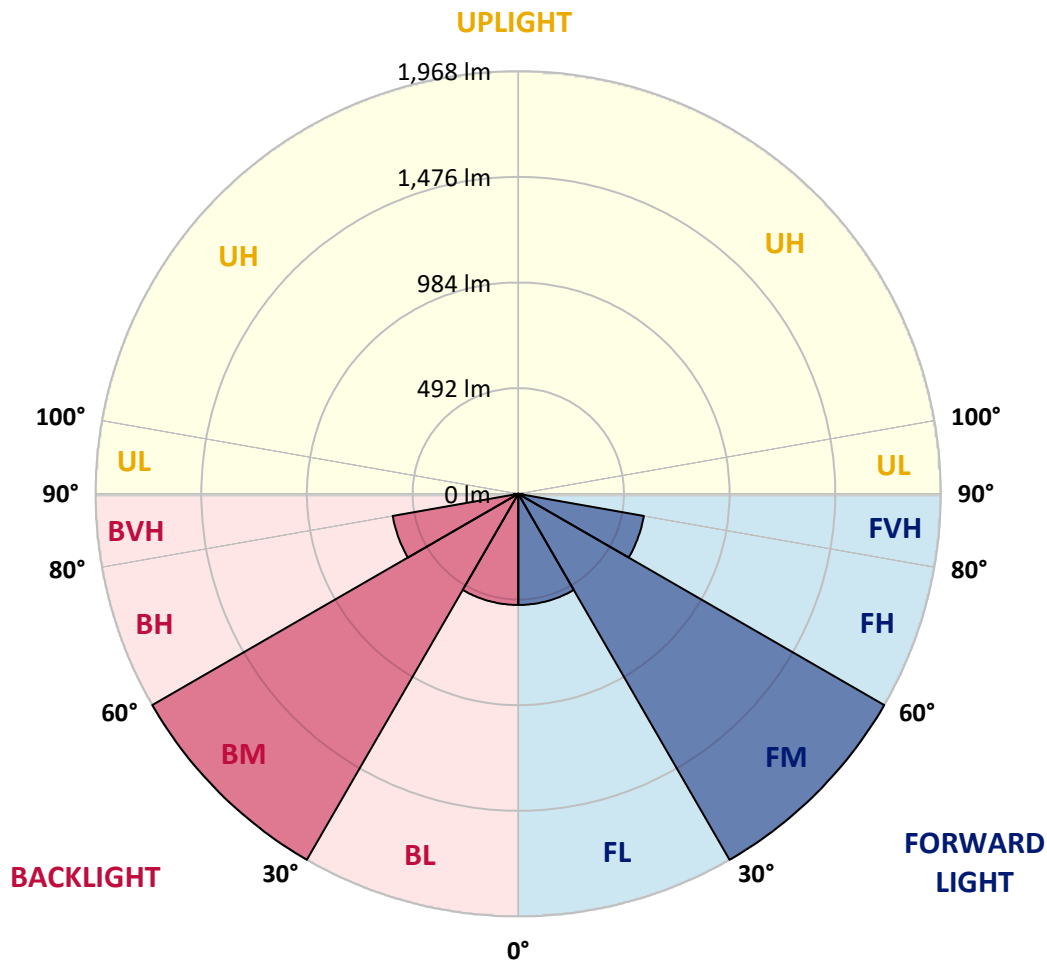
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 517.3  | 8.3       |                         |      |        |
| FM (30°-60°)   | 1967.8 | 31.7      |                         |      |        |
| FH (60°-80°)   | 593.8  | 9.6       |                         |      | G0/660 |
| FVH (80°-90°)  | 20.6   | 0.3       |                         |      | G1/100 |
| BL (0°-30°)    | 517.3  | 8.3       | B2/1000                 |      |        |
| BM (30°-60°)   | 1967.8 | 31.7      | B2/2500                 |      |        |
| BH (60°-80°)   | 593.8  | 9.6       | B2/1000                 |      | G0/660 |
| BVH (80°-90°)  | 20.6   | 0.3       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1197.4 | 1197.4 | 1197.4 | 1197.4 | 1197.4 | 1197.4 | 1197.4 | 1197.4 | 1197.4 | 1197.4 | 1197.4 |
| 2.5°  | 1190.2 | 1198.9 | 1192.6 | 1198.1 | 1197.4 | 1195.0 | 1191.0 | 1188.6 | 1185.4 | 1190.2 | 1182.3 |
| 5°    | 1185.4 | 1192.6 | 1199.7 | 1190.2 | 1190.2 | 1185.4 | 1183.0 | 1178.3 | 1178.3 | 1177.5 | 1176.7 |
| 7.5°  | 1193.4 | 1186.2 | 1183.0 | 1184.6 | 1186.2 | 1175.9 | 1183.0 | 1173.5 | 1165.6 | 1171.1 | 1177.5 |
| 10°   | 1186.2 | 1189.4 | 1177.5 | 1183.0 | 1174.3 | 1175.9 | 1171.1 | 1177.5 | 1168.7 | 1168.7 | 1168.7 |
| 12.5° | 1193.4 | 1184.6 | 1188.6 | 1184.6 | 1182.3 | 1168.7 | 1175.1 | 1168.0 | 1167.2 | 1175.1 | 1168.0 |
| 15°   | 1207.7 | 1193.4 | 1190.2 | 1182.3 | 1184.6 | 1184.6 | 1178.3 | 1179.1 | 1170.3 | 1175.1 | 1176.7 |
| 17.5° | 1202.9 | 1195.0 | 1192.6 | 1183.0 | 1191.0 | 1193.4 | 1181.5 | 1173.5 | 1179.1 | 1178.3 | 1177.5 |
| 20°   | 1206.9 | 1210.1 | 1207.7 | 1209.3 | 1212.4 | 1206.1 | 1195.0 | 1183.8 | 1176.7 | 1187.0 | 1186.2 |
| 22.5° | 1232.3 | 1229.1 | 1227.5 | 1226.0 | 1231.5 | 1237.9 | 1222.8 | 1205.3 | 1205.3 | 1212.4 | 1215.6 |
| 25°   | 1253.0 | 1252.2 | 1251.4 | 1258.5 | 1277.6 | 1277.6 | 1258.5 | 1236.3 | 1230.7 | 1235.5 | 1231.5 |
| 27.5° | 1283.2 | 1291.9 | 1288.7 | 1301.4 | 1329.2 | 1335.6 | 1310.2 | 1284.0 | 1268.9 | 1263.3 | 1270.4 |
| 30°   | 1352.3 | 1342.0 | 1344.3 | 1357.8 | 1382.5 | 1403.1 | 1364.2 | 1336.4 | 1315.7 | 1314.9 | 1318.1 |
| 32.5° | 1398.4 | 1406.3 | 1413.5 | 1426.2 | 1465.1 | 1481.0 | 1434.1 | 1388.8 | 1376.1 | 1369.0 | 1371.4 |
| 35°   | 1490.5 | 1483.4 | 1481.8 | 1494.5 | 1533.4 | 1559.7 | 1500.9 | 1461.1 | 1444.4 | 1460.3 | 1460.3 |
| 37.5° | 1577.9 | 1558.1 | 1543.0 | 1559.7 | 1595.4 | 1598.6 | 1548.5 | 1527.1 | 1518.3 | 1536.6 | 1535.8 |
| 40°   | 1619.2 | 1617.7 | 1582.7 | 1592.2 | 1639.9 | 1644.7 | 1597.8 | 1572.4 | 1570.8 | 1594.6 | 1618.4 |
| 42.5° | 1662.1 | 1647.1 | 1612.1 | 1618.4 | 1647.8 | 1649.4 | 1604.9 | 1597.8 | 1615.3 | 1638.3 | 1639.9 |
| 45°   | 1669.3 | 1656.6 | 1634.3 | 1618.4 | 1639.9 | 1644.7 | 1618.4 | 1623.2 | 1624.8 | 1652.6 | 1652.6 |
| 47.5° | 1683.6 | 1682.0 | 1669.3 | 1657.4 | 1661.4 | 1657.4 | 1640.7 | 1647.8 | 1671.7 | 1685.2 | 1678.8 |
| 50°   | 1723.3 | 1706.6 | 1719.4 | 1709.0 | 1709.8 | 1720.9 | 1705.8 | 1713.0 | 1708.2 | 1696.3 | 1688.4 |
| 52.5° | 1810.7 | 1802.8 | 1813.9 | 1821.1 | 1829.0 | 1854.4 | 1836.9 | 1798.8 | 1763.1 | 1731.3 | 1730.5 |
| 55°   | 1938.6 | 1944.2 | 1965.7 | 2002.2 | 2033.2 | 2073.7 | 1989.5 | 1898.1 | 1840.9 | 1790.9 | 1794.0 |
| 57.5° | 2059.4 | 2055.4 | 2084.8 | 2168.3 | 2258.8 | 2279.5 | 2114.2 | 1983.9 | 1891.0 | 1859.2 | 1845.7 |
| 59°   | 1962.5 | 1981.5 | 2048.3 | 2141.2 | 2283.5 | 2313.7 | 2097.5 | 1914.0 | 1815.5 | 1751.1 | 1762.3 |
| 60°   | 1809.9 | 1817.1 | 1876.7 | 2006.2 | 2198.5 | 2250.1 | 1985.5 | 1806.0 | 1674.9 | 1637.5 | 1654.2 |
| 62.5° | 1279.2 | 1273.6 | 1316.5 | 1422.2 | 1594.6 | 1664.5 | 1476.2 | 1349.9 | 1267.3 | 1226.0 | 1235.5 |
| 65°   | 680.1  | 705.5  | 723.0  | 789.0  | 880.3  | 954.2  | 876.4  | 821.5  | 775.5  | 741.3  | 740.5  |
| 67.5° | 459.2  | 456.1  | 460.0  | 475.1  | 506.1  | 526.8  | 525.2  | 497.4  | 493.4  | 487.0  | 494.2  |
| 70°   | 386.9  | 385.3  | 378.2  | 378.2  | 384.6  | 389.3  | 394.9  | 398.1  | 404.4  | 412.4  | 411.6  |
| 72.5° | 313.8  | 309.9  | 305.1  | 302.7  | 310.7  | 313.0  | 320.2  | 323.4  | 328.9  | 328.1  | 335.3  |
| 75°   | 207.4  | 207.4  | 212.9  | 219.3  | 221.7  | 226.4  | 227.2  | 236.8  | 236.8  | 238.4  | 232.0  |
| 77.5° | 116.0  | 112.8  | 116.8  | 123.2  | 128.7  | 137.5  | 146.2  | 153.3  | 157.3  | 155.7  | 155.7  |
| 80°   | 67.5   | 67.5   | 71.5   | 78.7   | 85.8   | 93.8   | 100.1  | 105.7  | 109.6  | 108.1  | 104.9  |
| 82.5° | 42.1   | 42.1   | 46.1   | 53.2   | 58.8   | 63.6   | 72.3   | 79.5   | 84.2   | 82.6   | 78.7   |
| 85°   | 21.5   | 21.5   | 26.2   | 31.0   | 38.1   | 41.3   | 40.5   | 37.3   | 36.5   | 32.6   | 32.6   |
| 87.5° | 5.6    | 5.6    | 7.9    | 8.7    | 7.2    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 8.7    |
| 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)