

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: McGRAW-EDISON

Report Number: P526688

Luminaire Tested: **GALN-SA1C-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-830-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4990 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 57  
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

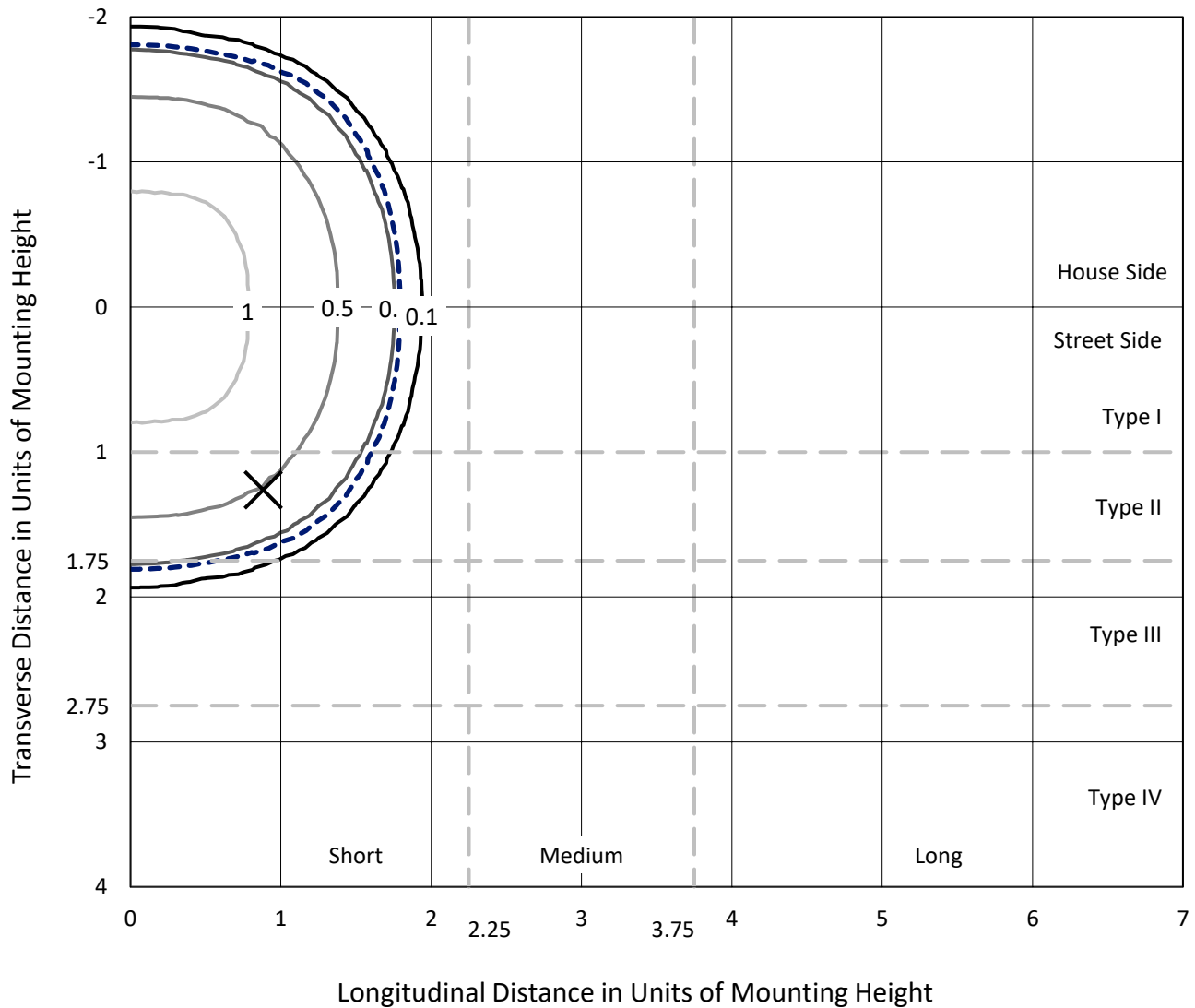


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 --- 1/2 Max cd

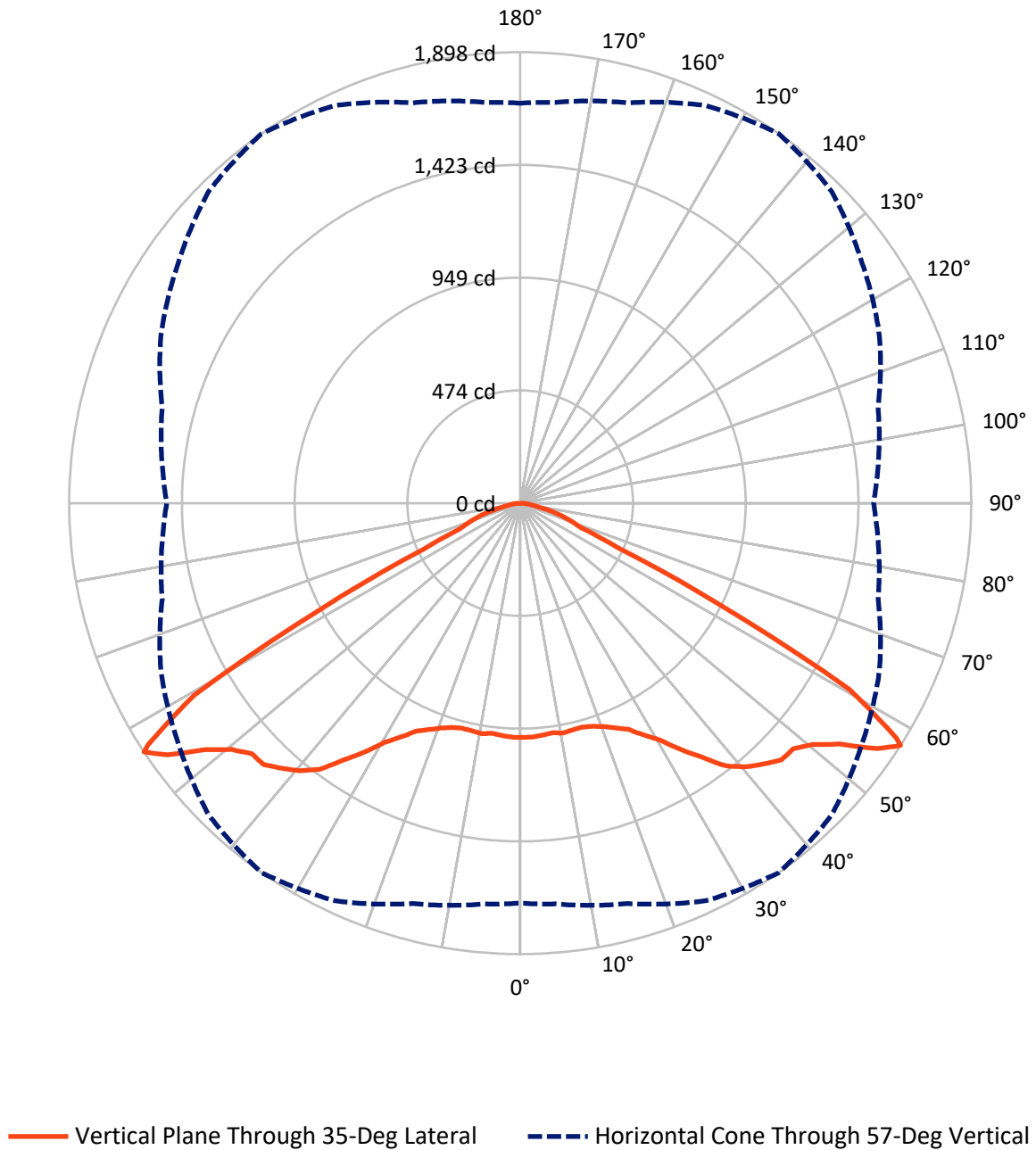


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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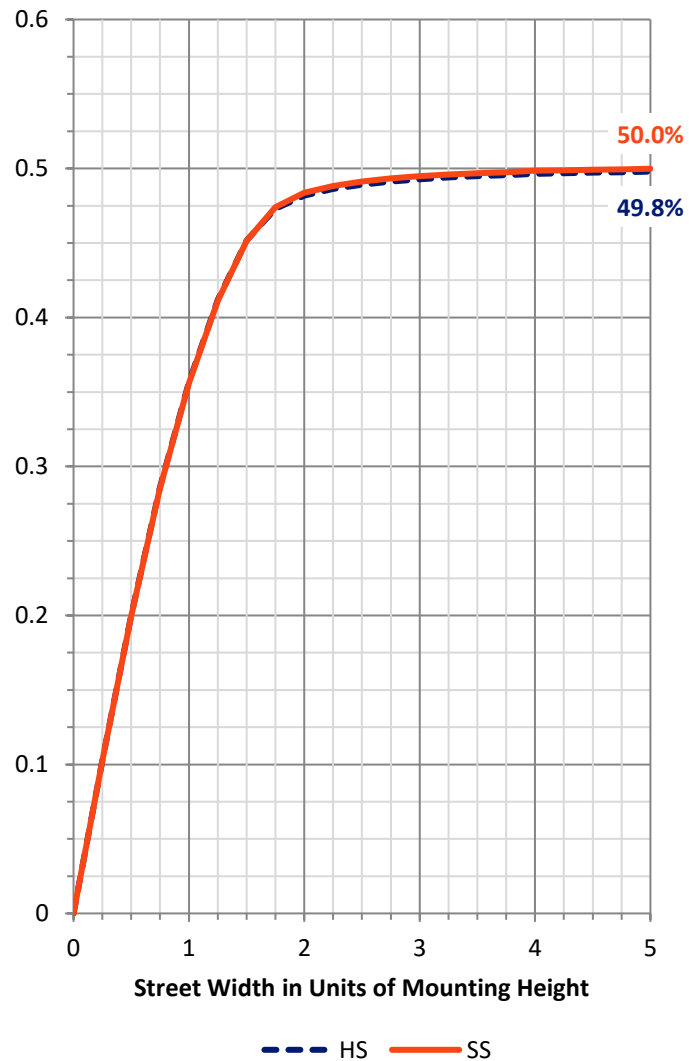
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2495.0   | 0.0    | 2495.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2495.0   | 0.0    | 2495.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4990.0   | 0.0    | 4990.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.4   | 1.9       |
| 10°-20°   | 276.7  | 5.5       |
| 20°-30°   | 483.3  | 9.7       |
| 30°-40°   | 791.8  | 15.9      |
| 40°-50°   | 1161.0 | 23.3      |
| 50°-60°   | 1462.4 | 29.3      |
| 60°-70°   | 550.0  | 11.0      |
| 70°-80°   | 146.2  | 2.9       |
| 80°-90°   | 25.1   | 0.5       |
| 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°    | 4990.0 | 100.0     |
| 0°-180°   | 4990.0 | 100.0     |

**Coefficient of Utilization**



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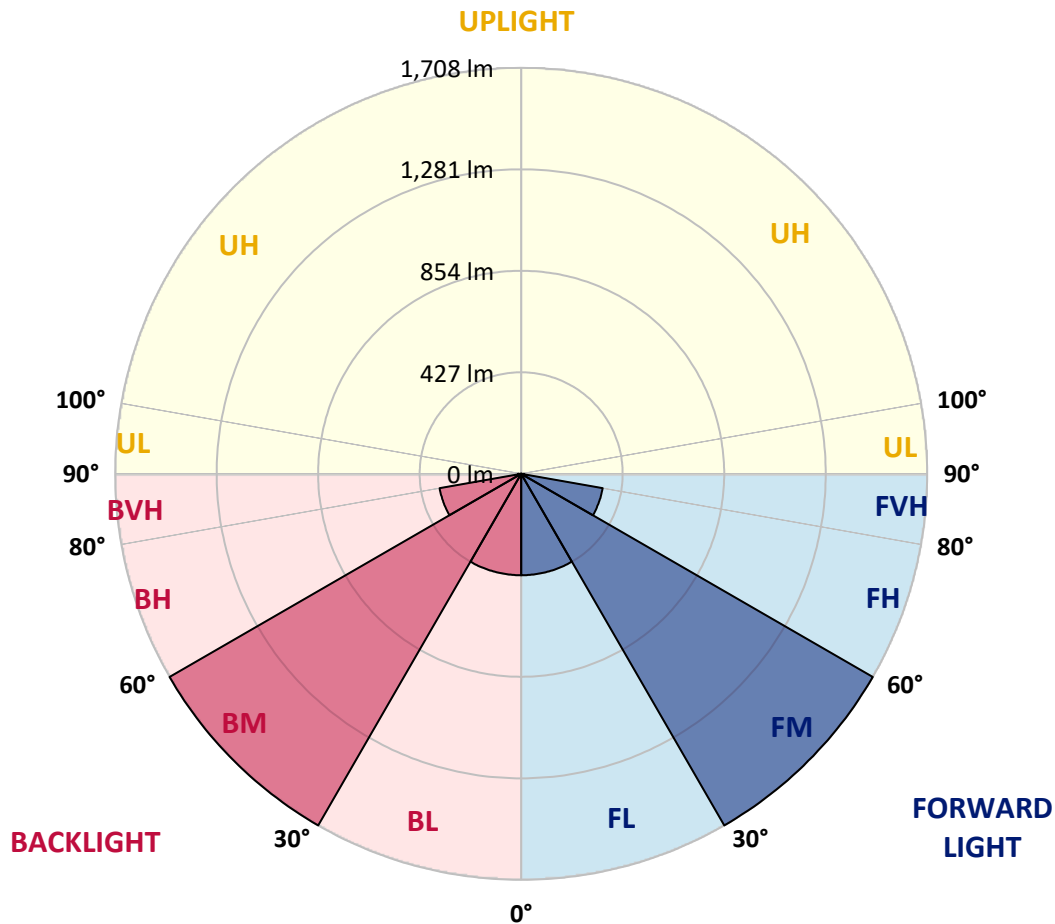
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 426.7  | 8.6       |                         |      |        |
| FM   | (30°-60°)   | 1707.6 | 34.2      |                         |      |        |
| FH   | (60°-80°)   | 348.1  | 7.0       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 12.5   | 0.3       |                         |      | G1/100 |
| BL   | (0°-30°)    | 426.7  | 8.6       | B1/500                  |      |        |
| BM   | (30°-60°)   | 1707.6 | 34.2      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 348.1  | 7.0       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 12.5   | 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°    | 985.5  | 985.5  | 985.5  | 985.5  | 985.5  | 985.5  | 985.5  | 985.5  | 985.5  | 985.5  | 985.5  |
| 2.5°  | 980.6  | 990.4  | 986.1  | 983.6  | 985.5  | 982.4  | 977.5  | 983.0  | 981.8  | 976.9  | 975.0  |
| 5°    | 978.1  | 985.5  | 980.6  | 985.5  | 980.6  | 989.2  | 986.7  | 977.5  | 988.6  | 978.1  | 981.8  |
| 7.5°  | 976.3  | 978.7  | 980.0  | 977.5  | 975.7  | 986.1  | 980.6  | 976.3  | 970.1  | 968.3  | 971.3  |
| 10°   | 972.0  | 978.1  | 968.9  | 981.2  | 983.6  | 976.3  | 976.3  | 968.3  | 963.4  | 960.3  | 970.7  |
| 12.5° | 983.0  | 972.6  | 971.3  | 977.5  | 979.3  | 982.4  | 973.8  | 969.5  | 960.3  | 961.5  | 959.7  |
| 15°   | 970.1  | 974.4  | 975.0  | 976.3  | 978.1  | 985.5  | 977.5  | 968.3  | 964.6  | 951.7  | 952.9  |
| 17.5° | 975.0  | 970.7  | 975.0  | 989.2  | 986.7  | 992.3  | 983.6  | 969.5  | 960.9  | 953.5  | 963.4  |
| 20°   | 983.6  | 981.8  | 983.6  | 1000.9 | 1003.9 | 1008.8 | 1001.5 | 988.6  | 972.0  | 963.4  | 968.3  |
| 22.5° | 992.9  | 991.6  | 992.9  | 1009.5 | 1027.3 | 1033.4 | 1026.1 | 995.9  | 987.3  | 971.3  | 965.8  |
| 25°   | 1009.5 | 1010.7 | 1023.6 | 1042.0 | 1053.7 | 1065.4 | 1051.9 | 1030.4 | 1002.7 | 992.9  | 981.2  |
| 27.5° | 1046.4 | 1049.4 | 1056.8 | 1083.9 | 1104.1 | 1114.6 | 1095.5 | 1066.0 | 1048.8 | 1028.5 | 1025.4 |
| 30°   | 1091.8 | 1091.8 | 1104.8 | 1128.1 | 1155.8 | 1171.8 | 1148.4 | 1113.4 | 1092.5 | 1081.4 | 1074.6 |
| 32.5° | 1152.1 | 1145.3 | 1150.2 | 1191.4 | 1234.5 | 1248.0 | 1216.6 | 1173.6 | 1140.4 | 1125.7 | 1120.7 |
| 35°   | 1203.7 | 1208.0 | 1219.1 | 1263.4 | 1311.3 | 1342.7 | 1293.5 | 1237.5 | 1203.7 | 1190.2 | 1187.8 |
| 37.5° | 1270.7 | 1278.1 | 1283.7 | 1344.5 | 1402.3 | 1414.0 | 1366.7 | 1321.8 | 1280.6 | 1269.5 | 1263.4 |
| 40°   | 1365.4 | 1360.5 | 1362.3 | 1407.2 | 1459.5 | 1466.9 | 1420.1 | 1388.2 | 1354.4 | 1347.6 | 1347.6 |
| 42.5° | 1443.5 | 1438.0 | 1444.1 | 1460.7 | 1500.7 | 1495.1 | 1469.3 | 1446.0 | 1431.8 | 1424.4 | 1431.8 |
| 45°   | 1490.8 | 1489.6 | 1500.7 | 1513.0 | 1541.2 | 1522.8 | 1502.5 | 1506.2 | 1492.7 | 1480.4 | 1479.8 |
| 47.5° | 1542.5 | 1534.5 | 1548.0 | 1566.5 | 1544.9 | 1536.3 | 1535.1 | 1543.1 | 1538.8 | 1517.3 | 1510.5 |
| 50°   | 1567.7 | 1564.6 | 1586.1 | 1607.6 | 1596.0 | 1576.3 | 1580.6 | 1593.5 | 1538.2 | 1509.3 | 1492.7 |
| 52.5° | 1635.3 | 1635.9 | 1677.1 | 1688.8 | 1683.9 | 1655.0 | 1664.2 | 1629.2 | 1564.0 | 1523.4 | 1525.3 |
| 55°   | 1741.7 | 1737.4 | 1783.5 | 1817.9 | 1823.4 | 1786.5 | 1742.3 | 1693.1 | 1611.3 | 1570.1 | 1557.8 |
| 57°   | 1683.3 | 1693.1 | 1744.1 | 1846.2 | 1897.8 | 1854.2 | 1757.6 | 1667.9 | 1559.1 | 1509.3 | 1487.1 |
| 57.5° | 1605.2 | 1621.2 | 1709.7 | 1812.4 | 1866.5 | 1862.8 | 1738.6 | 1621.2 | 1524.0 | 1446.6 | 1448.4 |
| 60°   | 1176.1 | 1179.1 | 1259.1 | 1422.0 | 1591.0 | 1594.7 | 1443.5 | 1288.0 | 1179.8 | 1095.5 | 1107.2 |
| 62.5° | 620.3  | 634.5  | 666.4  | 797.4  | 943.7  | 979.3  | 887.7  | 807.8  | 714.4  | 650.4  | 656.6  |
| 65°   | 328.3  | 326.4  | 341.8  | 378.7  | 450.6  | 469.1  | 456.8  | 393.5  | 360.9  | 350.4  | 351.0  |
| 67.5° | 266.8  | 269.9  | 268.0  | 269.9  | 274.8  | 282.8  | 281.0  | 283.4  | 285.3  | 288.3  | 287.7  |
| 70°   | 226.2  | 226.2  | 227.5  | 228.1  | 228.1  | 231.8  | 236.1  | 244.1  | 244.7  | 247.8  | 249.0  |
| 72.5° | 178.3  | 177.1  | 178.9  | 183.2  | 183.8  | 186.9  | 193.0  | 198.0  | 199.8  | 199.8  | 196.1  |
| 75°   | 121.1  | 122.3  | 124.8  | 128.5  | 132.2  | 137.7  | 142.6  | 145.7  | 146.9  | 145.1  | 143.2  |
| 77.5° | 68.2   | 69.5   | 71.3   | 76.8   | 81.2   | 86.1   | 91.6   | 94.7   | 97.7   | 98.4   | 94.7   |
| 80°   | 40.6   | 40.6   | 43.6   | 48.0   | 52.9   | 57.8   | 62.7   | 66.4   | 67.6   | 67.6   | 65.8   |
| 82.5° | 24.6   | 25.2   | 27.7   | 32.0   | 36.3   | 39.3   | 43.6   | 46.7   | 49.2   | 48.6   | 47.3   |
| 85°   | 12.9   | 12.9   | 15.4   | 19.1   | 22.1   | 25.2   | 25.2   | 23.4   | 22.1   | 19.1   | 17.8   |
| 87.5° | 4.3    | 3.7    | 4.9    | 4.9    | 4.3    | 4.9    | 4.9    | 5.5    | 5.5    | 5.5    | 5.5    |
| 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)