

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: P650664

Luminaire Tested: **GALN-SA1C-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650664  
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-840-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 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: 5280.6 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

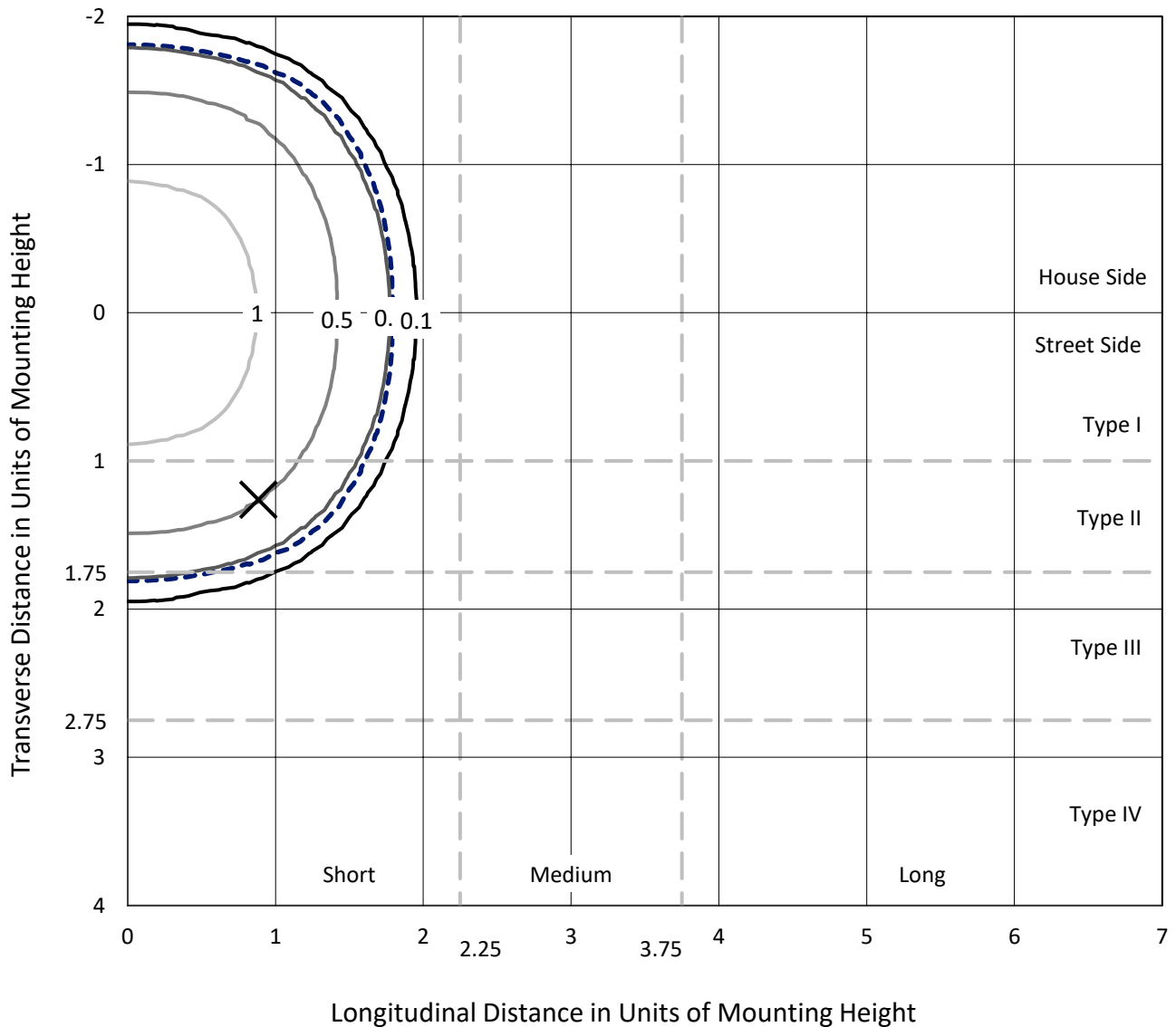
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650664  
 CATALOG NUMBER: GALN-SA1C-840-U-5MQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

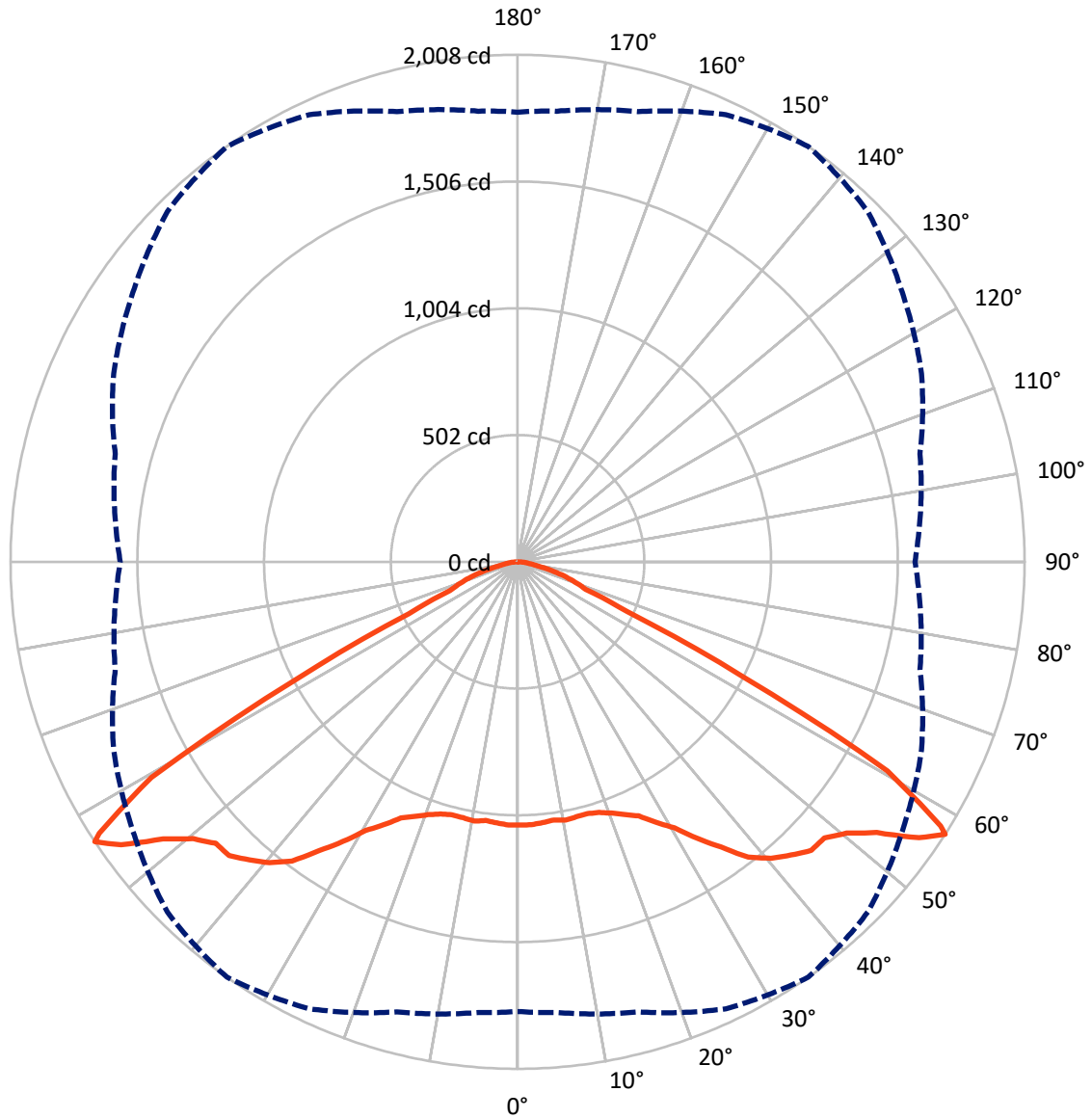
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P650664  
CATALOG NUMBER: GALN-SA1C-840-U-5MQ-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P650664  
 CATALOG NUMBER: GALN-SA1C-840-U-5MQ-GRSWH

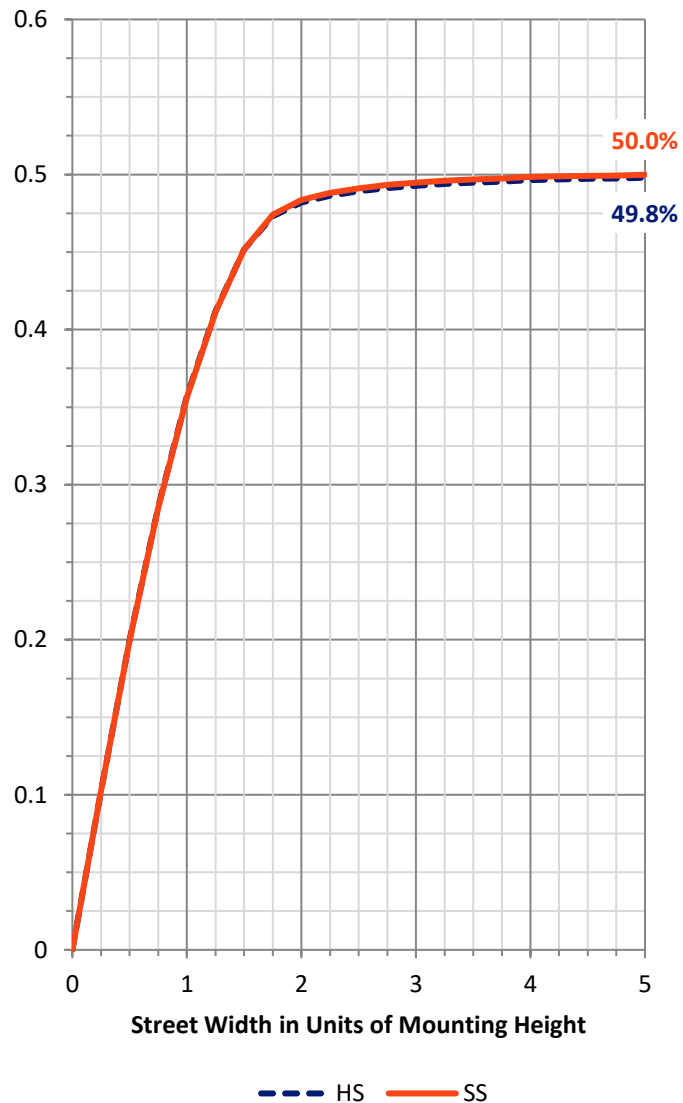
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2640.3   | 0.0    | 2640.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2640.3   | 0.0    | 2640.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5280.6   | 0.0    | 5280.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.9   | 1.9       |
| 10°-20°   | 292.8  | 5.5       |
| 20°-30°   | 511.4  | 9.7       |
| 30°-40°   | 838.0  | 15.9      |
| 40°-50°   | 1228.7 | 23.3      |
| 50°-60°   | 1547.6 | 29.3      |
| 60°-70°   | 582.0  | 11.0      |
| 70°-80°   | 154.8  | 2.9       |
| 80°-90°   | 26.5   | 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°    | 5280.6 | 100.0     |
| 0°-180°   | 5280.6 | 100.0     |

**Coefficient of Utilization**



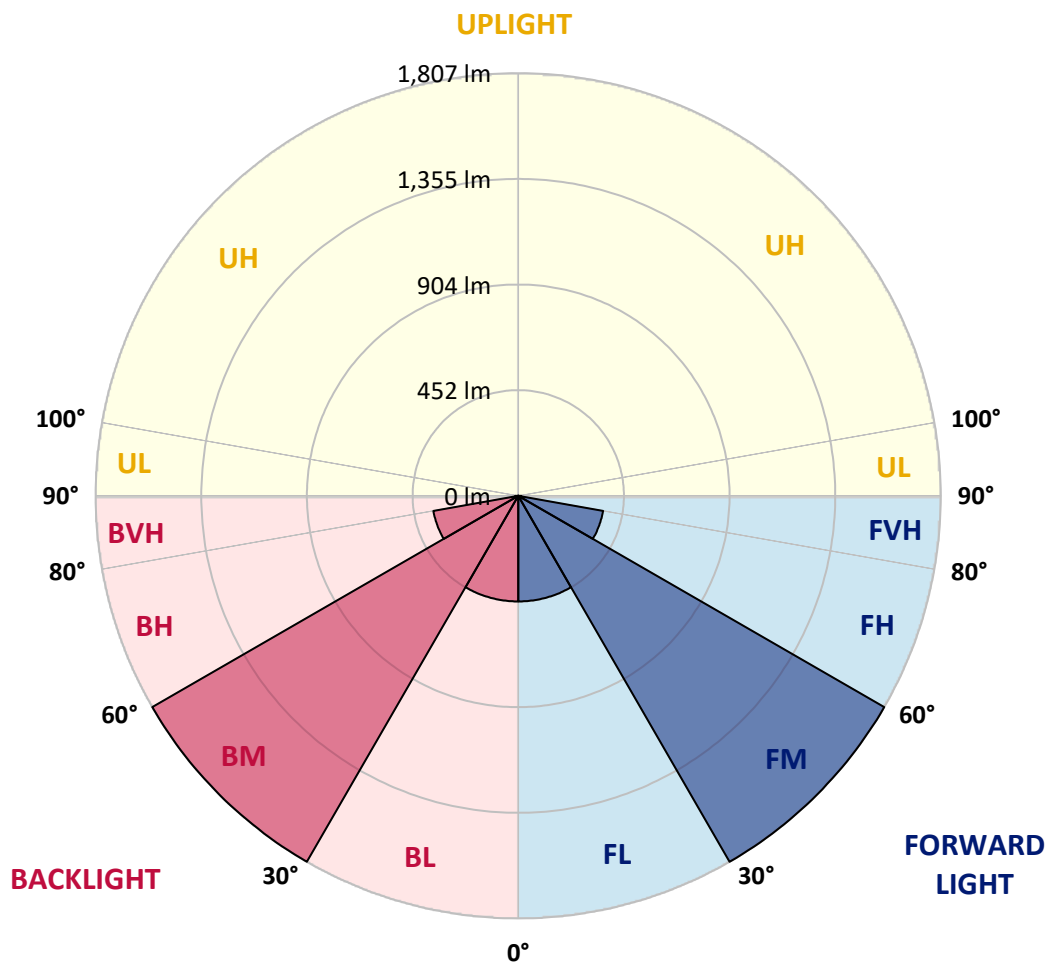
REPORT NUMBER: P650664  
 CATALOG NUMBER: GALN-SA1C-840-U-5MQ-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 451.6  | 8.6       |                         |      |        |
| FM (30°-60°)   | 1807.1 | 34.2      |                         |      |        |
| FH (60°-80°)   | 368.4  | 7.0       |                         |      | G0/660 |
| FVH (80°-90°)  | 13.3   | 0.3       |                         |      | G1/100 |
| BL (0°-30°)    | 451.6  | 8.6       | B1/500                  |      |        |
| BM (30°-60°)   | 1807.1 | 34.2      | B2/2500                 |      |        |
| BH (60°-80°)   | 368.4  | 7.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 13.3   | 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





REPORT NUMBER: P650664

CATALOG NUMBER: GALN-SA1C-840-U-5MQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1042.9 | 1042.9 | 1042.9 | 1042.9 | 1042.9 | 1042.9 | 1042.9 | 1042.9 | 1042.9 | 1042.9 | 1042.9 |
| 2.5°  | 1037.7 | 1048.1 | 1043.5 | 1040.9 | 1042.9 | 1039.6 | 1034.4 | 1040.3 | 1039.0 | 1033.8 | 1031.8 |
| 5°    | 1035.1 | 1042.9 | 1037.7 | 1042.9 | 1037.7 | 1046.8 | 1044.2 | 1034.4 | 1046.1 | 1035.1 | 1039.0 |
| 7.5°  | 1033.2 | 1035.7 | 1037.0 | 1034.4 | 1032.5 | 1043.5 | 1037.7 | 1033.2 | 1026.6 | 1024.7 | 1028.0 |
| 10°   | 1028.5 | 1035.1 | 1025.3 | 1038.3 | 1040.9 | 1033.2 | 1033.2 | 1024.7 | 1019.5 | 1016.2 | 1027.3 |
| 12.5° | 1040.3 | 1029.2 | 1028.0 | 1034.4 | 1036.4 | 1039.6 | 1030.6 | 1025.9 | 1016.2 | 1017.5 | 1015.6 |
| 15°   | 1026.6 | 1031.2 | 1031.8 | 1033.2 | 1035.1 | 1042.9 | 1034.4 | 1024.7 | 1020.8 | 1007.1 | 1008.4 |
| 17.5° | 1031.8 | 1027.3 | 1031.8 | 1046.8 | 1044.2 | 1050.1 | 1040.9 | 1025.9 | 1016.9 | 1009.0 | 1019.5 |
| 20°   | 1040.9 | 1039.0 | 1040.9 | 1059.2 | 1062.4 | 1067.6 | 1059.8 | 1046.1 | 1028.5 | 1019.5 | 1024.7 |
| 22.5° | 1050.7 | 1049.4 | 1050.7 | 1068.2 | 1087.2 | 1093.6 | 1085.8 | 1053.9 | 1044.9 | 1028.0 | 1022.1 |
| 25°   | 1068.2 | 1069.6 | 1083.2 | 1102.7 | 1115.1 | 1127.4 | 1113.1 | 1090.4 | 1061.1 | 1050.7 | 1038.3 |
| 27.5° | 1107.3 | 1110.5 | 1118.4 | 1147.0 | 1168.5 | 1179.5 | 1159.3 | 1128.1 | 1109.9 | 1088.4 | 1085.1 |
| 30°   | 1155.4 | 1155.4 | 1169.1 | 1193.8 | 1223.1 | 1240.1 | 1215.3 | 1178.2 | 1156.1 | 1144.3 | 1137.2 |
| 32.5° | 1219.2 | 1212.0 | 1217.3 | 1260.8 | 1306.4 | 1320.7 | 1287.5 | 1242.0 | 1206.8 | 1191.2 | 1186.0 |
| 35°   | 1273.9 | 1278.4 | 1290.1 | 1336.9 | 1387.7 | 1420.9 | 1368.8 | 1309.6 | 1273.9 | 1259.6 | 1257.0 |
| 37.5° | 1344.8 | 1352.6 | 1358.4 | 1422.8 | 1483.9 | 1496.3 | 1446.3 | 1398.8 | 1355.2 | 1343.5 | 1336.9 |
| 40°   | 1444.9 | 1439.7 | 1441.7 | 1489.2 | 1544.5 | 1552.3 | 1502.9 | 1469.1 | 1433.2 | 1426.1 | 1426.1 |
| 42.5° | 1527.6 | 1521.7 | 1528.3 | 1545.8 | 1588.1 | 1582.3 | 1554.9 | 1530.2 | 1515.2 | 1507.4 | 1515.2 |
| 45°   | 1577.6 | 1576.4 | 1588.1 | 1601.1 | 1631.0 | 1611.5 | 1590.0 | 1593.9 | 1579.7 | 1566.6 | 1565.9 |
| 47.5° | 1632.3 | 1623.9 | 1638.2 | 1657.7 | 1634.9 | 1625.8 | 1624.5 | 1633.0 | 1628.4 | 1605.6 | 1598.5 |
| 50°   | 1659.0 | 1655.8 | 1678.5 | 1701.3 | 1688.9 | 1668.1 | 1672.7 | 1686.3 | 1627.8 | 1597.2 | 1579.7 |
| 52.5° | 1730.5 | 1731.2 | 1774.8 | 1787.1 | 1781.9 | 1751.4 | 1761.1 | 1724.0 | 1655.1 | 1612.1 | 1614.1 |
| 55°   | 1843.1 | 1838.6 | 1887.4 | 1923.8 | 1929.7 | 1890.6 | 1843.7 | 1791.8 | 1705.2 | 1661.6 | 1648.6 |
| 57°   | 1781.3 | 1791.8 | 1845.7 | 1953.7 | 2008.4 | 1962.1 | 1860.0 | 1765.0 | 1649.9 | 1597.2 | 1573.8 |
| 57.5° | 1698.7 | 1715.6 | 1809.2 | 1917.9 | 1975.2 | 1971.3 | 1839.9 | 1715.6 | 1612.8 | 1530.8 | 1532.8 |
| 60°   | 1244.6 | 1247.8 | 1332.4 | 1504.8 | 1683.7 | 1687.6 | 1527.6 | 1363.0 | 1248.5 | 1159.3 | 1171.7 |
| 62.5° | 656.4  | 671.4  | 705.3  | 843.8  | 998.7  | 1036.4 | 939.5  | 854.9  | 756.0  | 688.4  | 694.8  |
| 65°   | 347.4  | 345.5  | 361.7  | 400.7  | 476.8  | 496.4  | 483.4  | 416.4  | 381.9  | 370.8  | 371.5  |
| 67.5° | 282.3  | 285.6  | 283.7  | 285.6  | 290.8  | 299.2  | 297.3  | 299.9  | 301.8  | 305.1  | 304.4  |
| 70°   | 239.4  | 239.4  | 240.7  | 241.4  | 241.4  | 245.2  | 249.9  | 258.3  | 258.9  | 262.2  | 263.5  |
| 72.5° | 188.6  | 187.4  | 189.3  | 193.9  | 194.5  | 197.8  | 204.3  | 209.5  | 211.4  | 211.4  | 207.6  |
| 75°   | 128.2  | 129.4  | 132.0  | 136.0  | 139.9  | 145.7  | 151.0  | 154.2  | 155.5  | 153.6  | 151.5  |
| 77.5° | 72.2   | 73.5   | 75.4   | 81.3   | 85.9   | 91.1   | 97.0   | 100.2  | 103.4  | 104.1  | 100.2  |
| 80°   | 43.0   | 43.0   | 46.2   | 50.7   | 55.9   | 61.1   | 66.4   | 70.2   | 71.6   | 71.6   | 69.6   |
| 82.5° | 26.0   | 26.7   | 29.3   | 33.8   | 38.3   | 41.6   | 46.2   | 49.5   | 52.1   | 51.4   | 50.1   |
| 85°   | 13.6   | 13.6   | 16.2   | 20.2   | 23.4   | 26.7   | 26.7   | 24.7   | 23.4   | 20.2   | 18.8   |
| 87.5° | 4.5    | 3.9    | 5.2    | 5.2    | 4.5    | 5.2    | 5.2    | 5.9    | 5.9    | 5.9    | 5.9    |
| 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)