

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: P526064

Luminaire Tested: **GALN-SA1A-730-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526064  
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-SA1A-730-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA 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: 3720 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

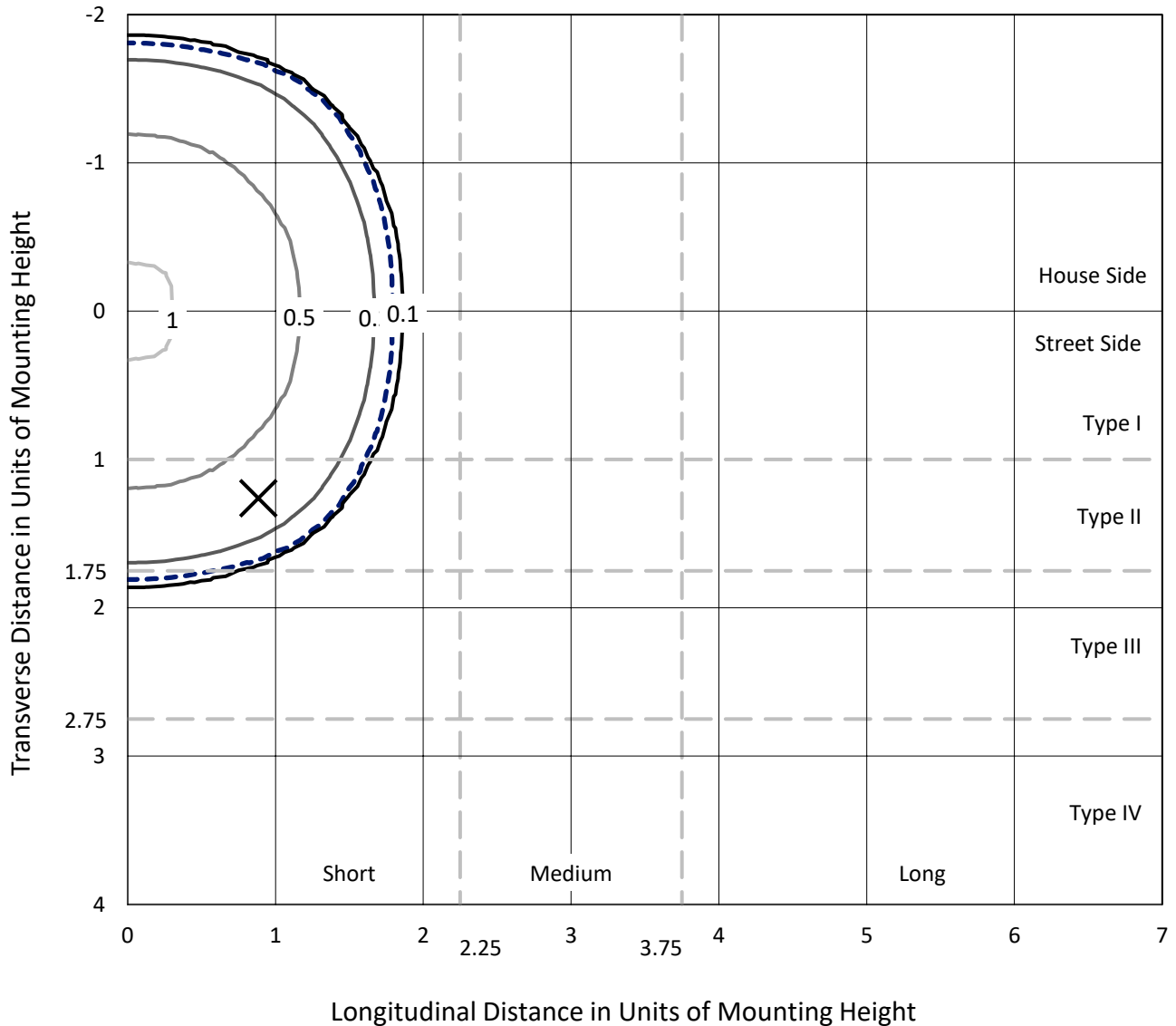
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

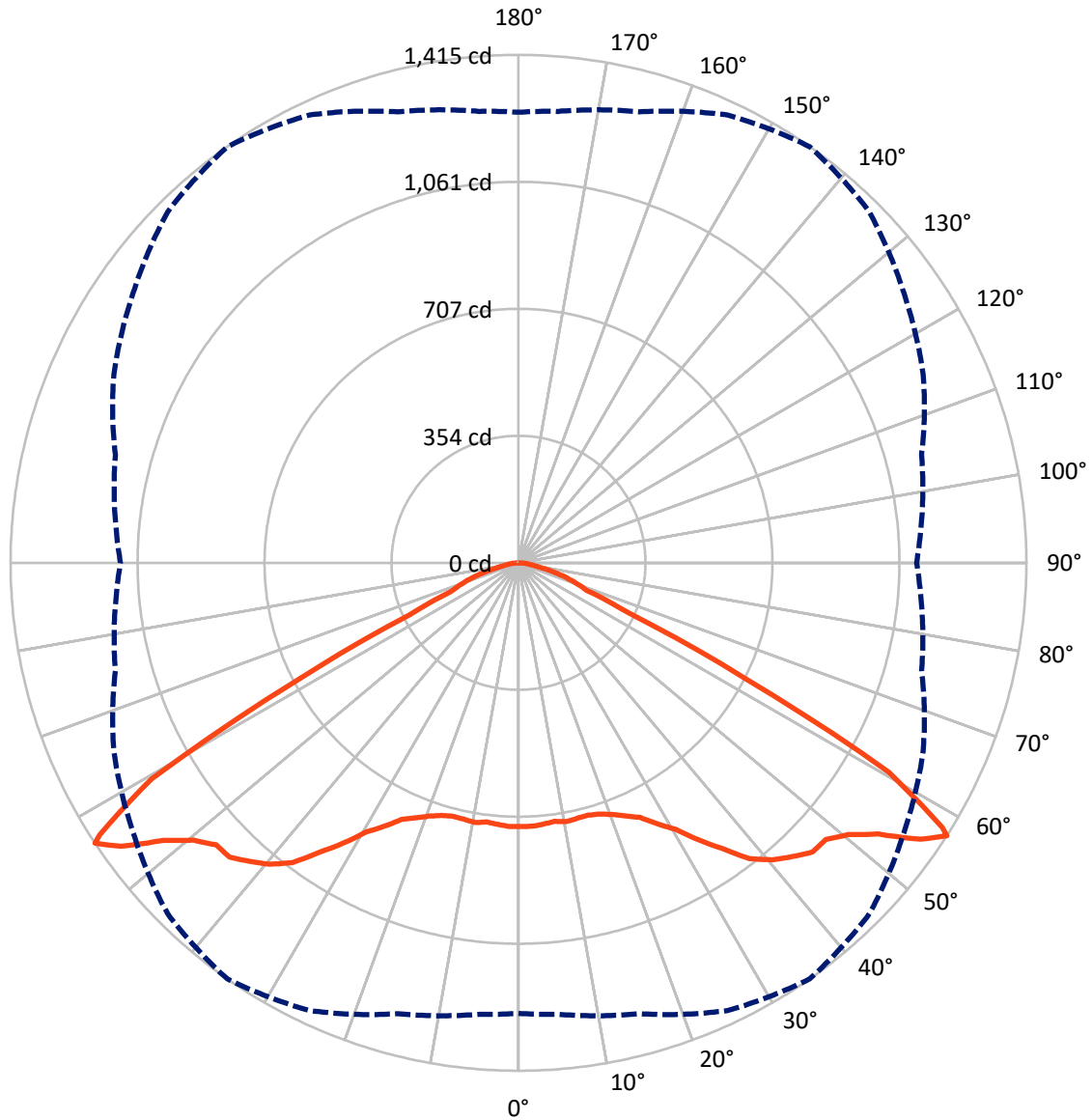
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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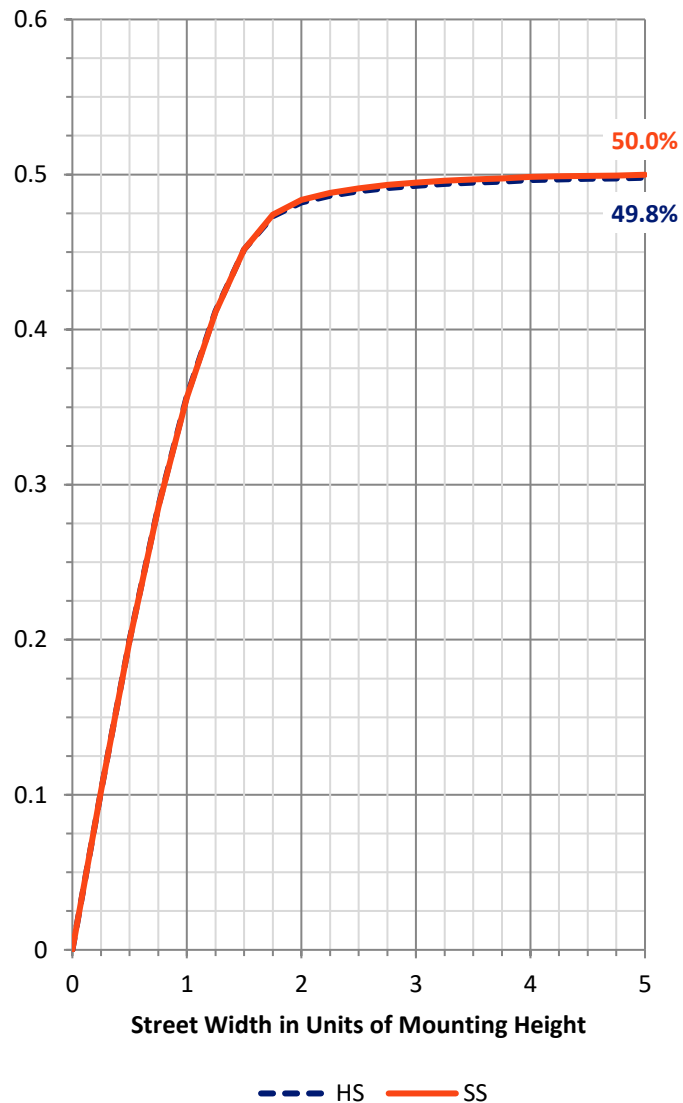
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1860.0   | 0.0    | 1860.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1860.0   | 0.0    | 1860.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3720.0   | 0.0    | 3720.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.6   | 1.9       |
| 10°-20°   | 206.3  | 5.5       |
| 20°-30°   | 360.3  | 9.7       |
| 30°-40°   | 590.3  | 15.9      |
| 40°-50°   | 865.5  | 23.3      |
| 50°-60°   | 1090.2 | 29.3      |
| 60°-70°   | 410.0  | 11.0      |
| 70°-80°   | 109.0  | 2.9       |
| 80°-90°   | 18.7   | 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°    | 3720.0 | 100.0     |
| 0°-180°   | 3720.0 | 100.0     |

**Coefficient of Utilization**

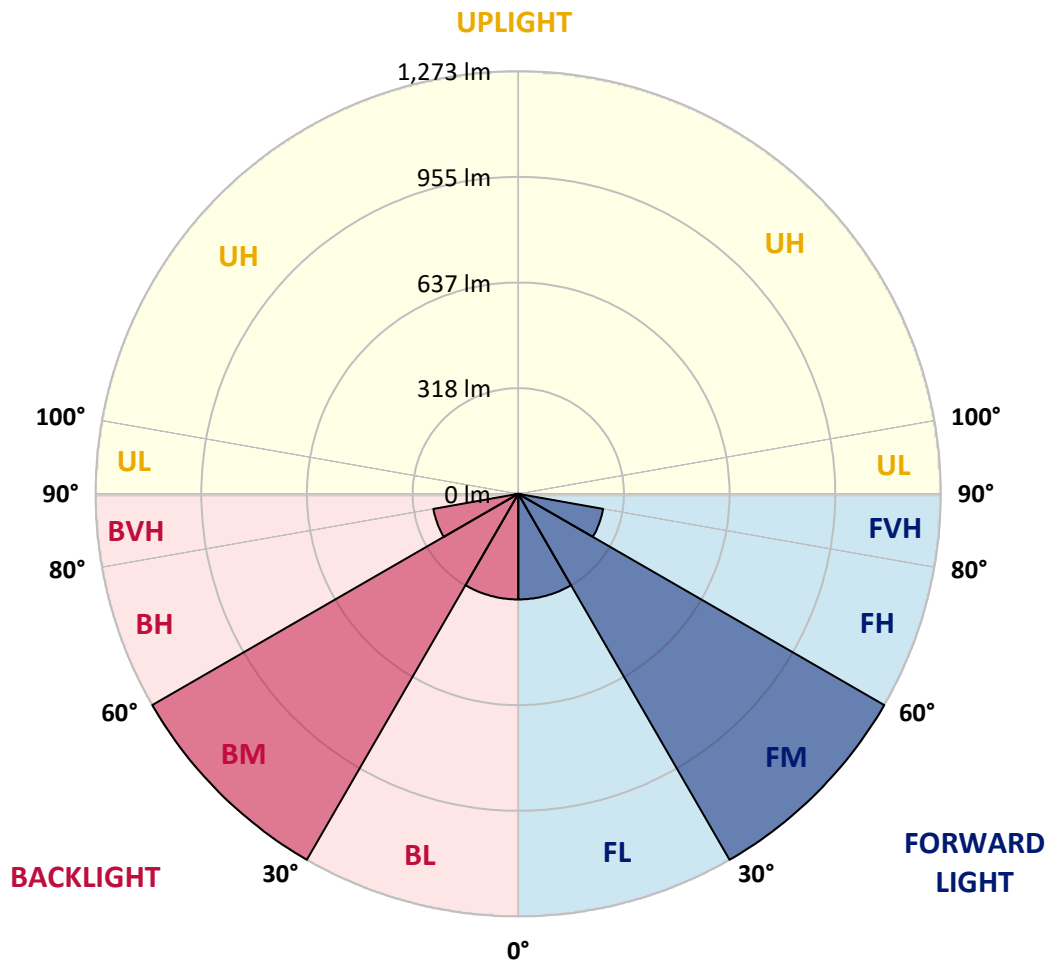


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 318.1  | 8.6       |                         |      |        |
| FM (30°-60°)   | 1273.0 | 34.2      |                         |      |        |
| FH (60°-80°)   | 259.5  | 7.0       |                         |      | G0/660 |
| FVH (80°-90°)  | 9.3    | 0.3       |                         |      | G0/10  |
| BL (0°-30°)    | 318.1  | 8.6       | B1/500                  |      |        |
| BM (30°-60°)   | 1273.0 | 34.2      | B2/2500                 |      |        |
| BH (60°-80°)   | 259.5  | 7.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 9.3    | 0.3       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 734.7  | 734.7  | 734.7  | 734.7  | 734.7  | 734.7  | 734.7  | 734.7  | 734.7  | 734.7  | 734.7  |
| 2.5°  | 731.0  | 738.3  | 735.1  | 733.3  | 734.7  | 732.4  | 728.7  | 732.8  | 731.9  | 728.3  | 726.9  |
| 5°    | 729.2  | 734.7  | 731.0  | 734.7  | 731.0  | 737.4  | 735.6  | 728.7  | 737.0  | 729.2  | 731.9  |
| 7.5°  | 727.8  | 729.6  | 730.5  | 728.7  | 727.3  | 735.1  | 731.0  | 727.8  | 723.2  | 721.8  | 724.1  |
| 10°   | 724.6  | 729.2  | 722.3  | 731.5  | 733.3  | 727.8  | 727.8  | 721.8  | 718.2  | 715.9  | 723.7  |
| 12.5° | 732.8  | 725.0  | 724.1  | 728.7  | 730.1  | 732.4  | 726.0  | 722.8  | 715.9  | 716.8  | 715.4  |
| 15°   | 723.2  | 726.4  | 726.9  | 727.8  | 729.2  | 734.7  | 728.7  | 721.8  | 719.1  | 709.5  | 710.4  |
| 17.5° | 726.9  | 723.7  | 726.9  | 737.4  | 735.6  | 739.7  | 733.3  | 722.8  | 716.3  | 710.8  | 718.2  |
| 20°   | 733.3  | 731.9  | 733.3  | 746.1  | 748.4  | 752.1  | 746.6  | 737.0  | 724.6  | 718.2  | 721.8  |
| 22.5° | 740.2  | 739.3  | 740.2  | 752.5  | 765.8  | 770.4  | 764.9  | 742.5  | 736.0  | 724.1  | 720.0  |
| 25°   | 752.5  | 753.5  | 763.1  | 776.8  | 785.5  | 794.3  | 784.2  | 768.1  | 747.5  | 740.2  | 731.5  |
| 27.5° | 780.0  | 782.3  | 787.8  | 808.0  | 823.1  | 830.9  | 816.7  | 794.7  | 781.9  | 766.8  | 764.5  |
| 30°   | 814.0  | 814.0  | 823.6  | 841.0  | 861.6  | 873.5  | 856.1  | 830.0  | 814.4  | 806.2  | 801.1  |
| 32.5° | 858.9  | 853.8  | 857.5  | 888.2  | 920.3  | 930.4  | 907.0  | 874.9  | 850.2  | 839.2  | 835.5  |
| 35°   | 897.4  | 900.6  | 908.8  | 941.8  | 977.6  | 1001.0 | 964.3  | 922.6  | 897.4  | 887.3  | 885.5  |
| 37.5° | 947.3  | 952.8  | 957.0  | 1002.3 | 1045.4 | 1054.1 | 1018.8 | 985.4  | 954.7  | 946.4  | 941.8  |
| 40°   | 1017.9 | 1014.2 | 1015.6 | 1049.1 | 1088.0 | 1093.5 | 1058.7 | 1034.9 | 1009.7 | 1004.6 | 1004.6 |
| 42.5° | 1076.1 | 1072.0 | 1076.6 | 1088.9 | 1118.7 | 1114.6 | 1095.4 | 1077.9 | 1067.4 | 1061.9 | 1067.4 |
| 45°   | 1111.4 | 1110.5 | 1118.7 | 1127.9 | 1149.0 | 1135.2 | 1120.1 | 1122.9 | 1112.8 | 1103.6 | 1103.2 |
| 47.5° | 1149.9 | 1143.9 | 1154.0 | 1167.8 | 1151.7 | 1145.3 | 1144.4 | 1150.4 | 1147.2 | 1131.1 | 1126.1 |
| 50°   | 1168.7 | 1166.4 | 1182.4 | 1198.5 | 1189.8 | 1175.1 | 1178.3 | 1187.9 | 1146.7 | 1125.2 | 1112.8 |
| 52.5° | 1219.1 | 1219.6 | 1250.3 | 1259.0 | 1255.3 | 1233.8 | 1240.6 | 1214.5 | 1165.9 | 1135.7 | 1137.1 |
| 55°   | 1298.4 | 1295.2 | 1329.6 | 1355.2 | 1359.4 | 1331.9 | 1298.9 | 1262.2 | 1201.2 | 1170.5 | 1161.4 |
| 57°   | 1254.9 | 1262.2 | 1300.2 | 1376.3 | 1414.8 | 1382.3 | 1310.3 | 1243.4 | 1162.3 | 1125.2 | 1108.7 |
| 57.5° | 1196.7 | 1208.6 | 1274.6 | 1351.1 | 1391.4 | 1388.7 | 1296.1 | 1208.6 | 1136.2 | 1078.4 | 1079.8 |
| 60°   | 876.7  | 879.0  | 938.6  | 1060.1 | 1186.1 | 1188.9 | 1076.1 | 960.2  | 879.5  | 816.7  | 825.4  |
| 62.5° | 462.4  | 473.0  | 496.8  | 594.4  | 703.5  | 730.1  | 661.8  | 602.2  | 532.6  | 484.9  | 489.5  |
| 65°   | 244.7  | 243.4  | 254.8  | 282.3  | 335.9  | 349.7  | 340.5  | 293.3  | 269.0  | 261.2  | 261.7  |
| 67.5° | 198.9  | 201.2  | 199.8  | 201.2  | 204.9  | 210.8  | 209.4  | 211.3  | 212.7  | 214.9  | 214.5  |
| 70°   | 168.7  | 168.7  | 169.6  | 170.0  | 170.0  | 172.8  | 176.0  | 181.9  | 182.4  | 184.7  | 185.6  |
| 72.5° | 132.9  | 132.0  | 133.4  | 136.6  | 137.0  | 139.3  | 143.9  | 147.6  | 149.0  | 149.0  | 146.2  |
| 75°   | 90.3   | 91.2   | 93.0   | 95.8   | 98.5   | 102.7  | 106.3  | 108.6  | 109.5  | 108.2  | 106.8  |
| 77.5° | 50.9   | 51.8   | 53.2   | 57.3   | 60.5   | 64.2   | 68.3   | 70.6   | 72.9   | 73.3   | 70.6   |
| 80°   | 30.2   | 30.2   | 32.5   | 35.7   | 39.4   | 43.1   | 46.7   | 49.5   | 50.4   | 50.4   | 49.0   |
| 82.5° | 18.3   | 18.8   | 20.6   | 23.8   | 27.0   | 29.3   | 32.5   | 34.8   | 36.7   | 36.2   | 35.3   |
| 85°   | 9.6    | 9.6    | 11.5   | 14.2   | 16.5   | 18.8   | 18.8   | 17.4   | 16.5   | 14.2   | 13.3   |
| 87.5° | 3.2    | 2.7    | 3.7    | 3.7    | 3.2    | 3.7    | 3.7    | 4.1    | 4.1    | 4.1    | 4.1    |
| 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)