

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: P647200

Luminaire Tested: **GALN-SA1D-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6428.4 lumens  
Efficiency: N/A  
Efficacy: 98.9 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

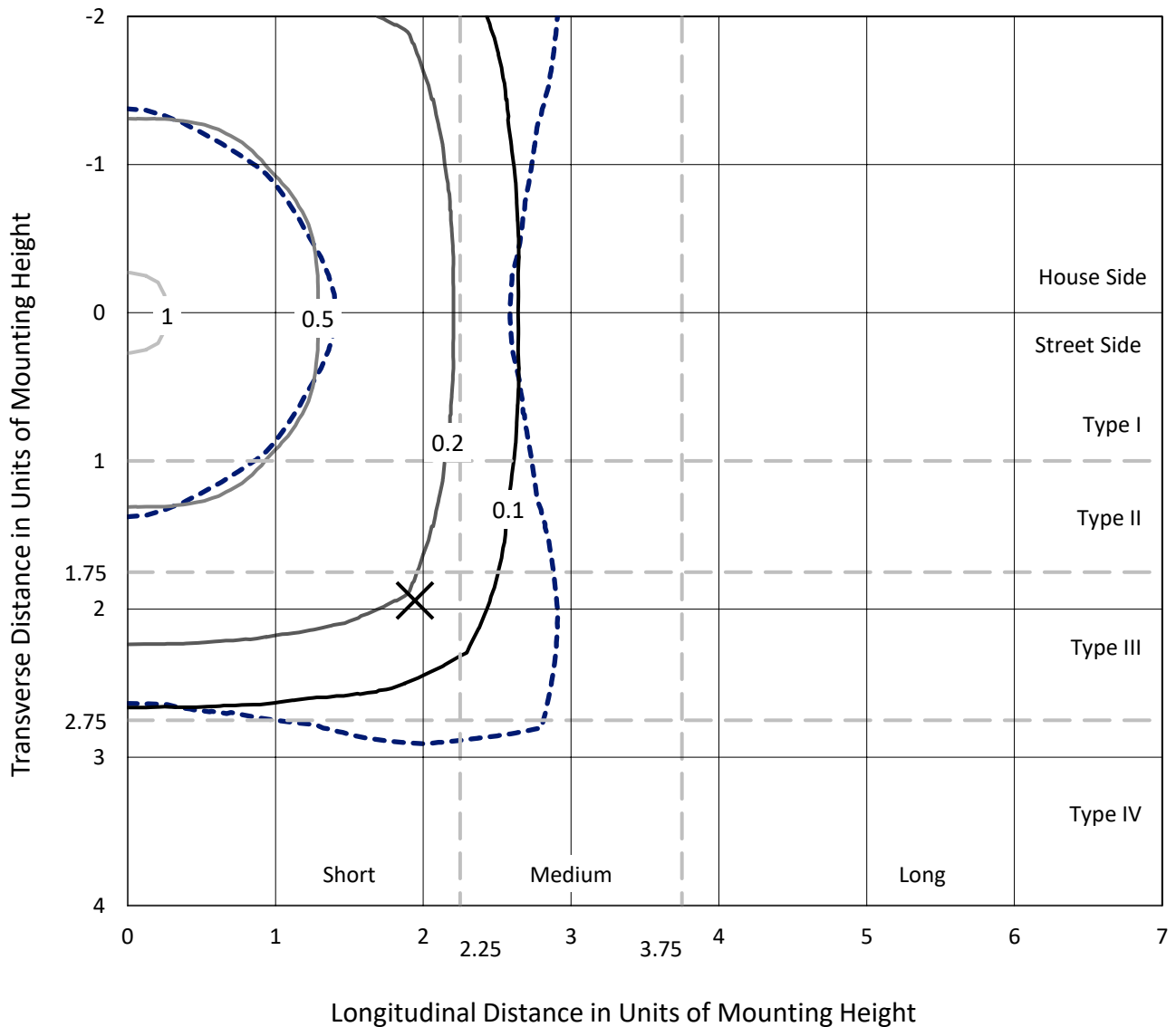
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

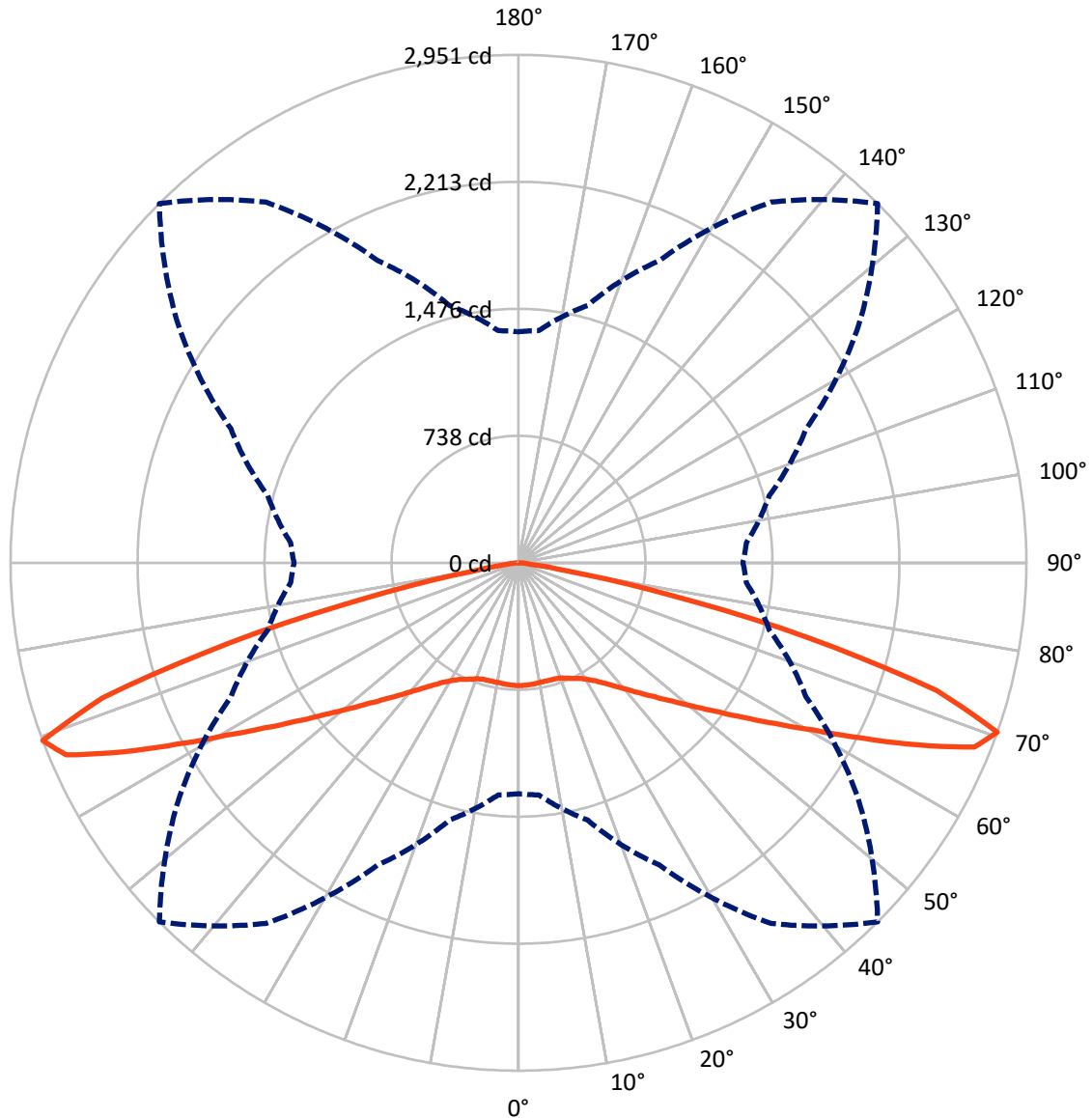
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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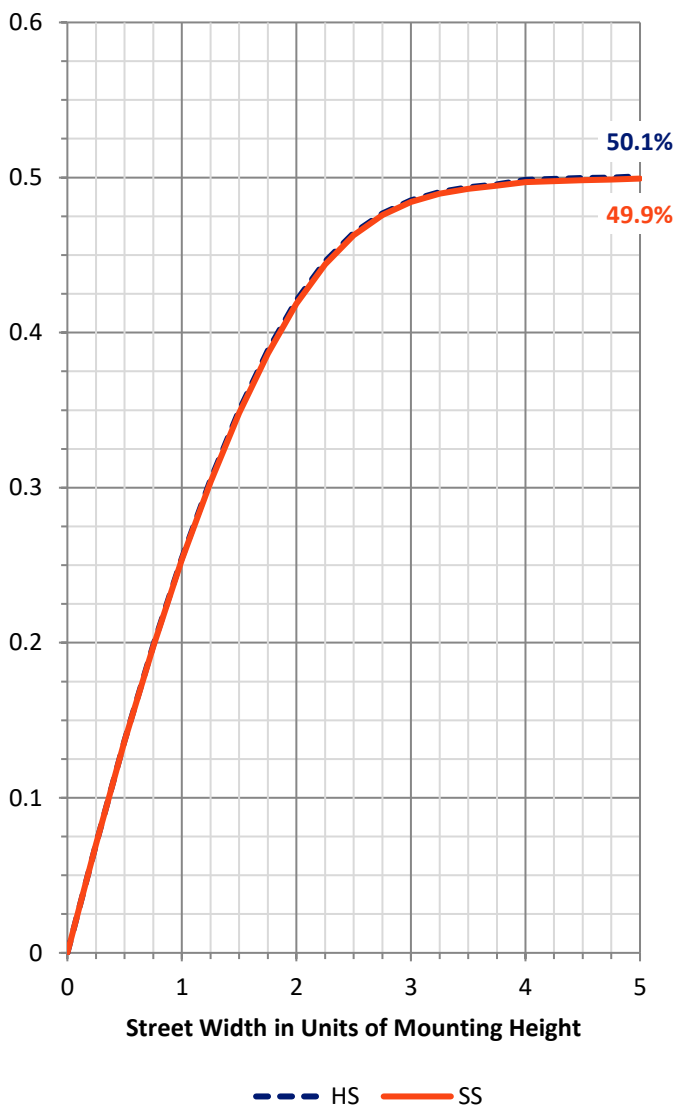
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3214.2   | 0.0    | 3214.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3214.2   | 0.0    | 3214.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6428.4   | 0.0    | 6428.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.7   | 1.1       |
| 10°-20°   | 198.6  | 3.1       |
| 20°-30°   | 339.7  | 5.3       |
| 30°-40°   | 539.2  | 8.4       |
| 40°-50°   | 869.9  | 13.5      |
| 50°-60°   | 1415.4 | 22.0      |
| 60°-70°   | 2051.8 | 31.9      |
| 70°-80°   | 910.1  | 14.2      |
| 80°-90°   | 35.9   | 0.6       |
| 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°    | 6428.4 | 100.0     |
| 0°-180°   | 6428.4 | 100.0     |

**Coefficient of Utilization**



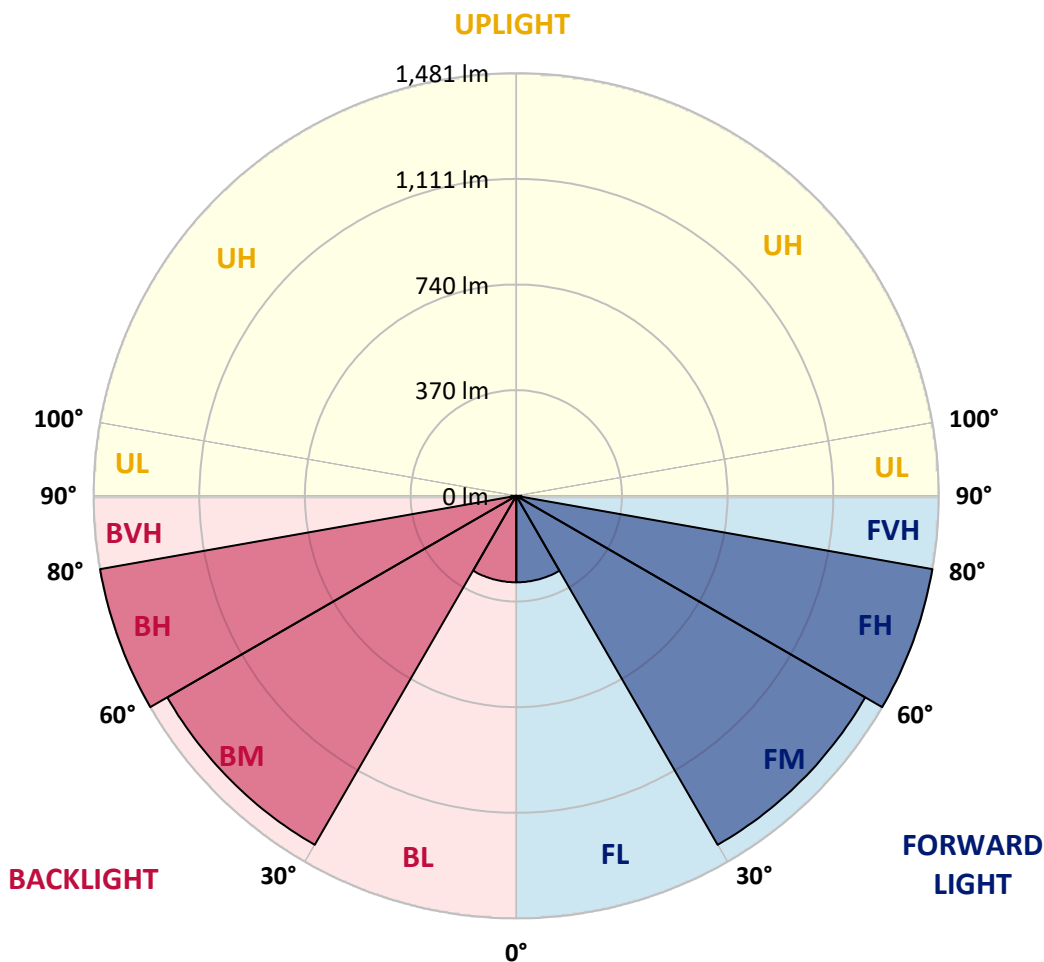
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 303.0  | 4.7       |                         |      |         |
| FM (30°-60°)   | 1412.3 | 22.0      |                         |      |         |
| FH (60°-80°)   | 1481.0 | 23.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 17.9   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 303.0  | 4.7       | B1/500                  |      |         |
| BM (30°-60°)   | 1412.3 | 22.0      | B2/2500                 |      |         |
| BH (60°-80°)   | 1481.0 | 23.0      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 17.9   | 0.3       |                         |      | 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°    | 713.9  | 713.9  | 713.9  | 713.9  | 713.9  | 713.9  | 713.9  | 713.9  | 713.9  | 713.9  | 713.9  |
| 2.5°  | 713.9  | 714.5  | 713.5  | 712.8  | 712.5  | 712.5  | 712.1  | 712.5  | 714.5  | 714.9  | 713.9  |
| 5°    | 711.8  | 712.5  | 712.1  | 711.5  | 711.1  | 711.1  | 710.8  | 710.5  | 712.1  | 712.8  | 712.5  |
| 7.5°  | 709.1  | 709.5  | 709.1  | 708.8  | 709.1  | 708.8  | 707.8  | 707.0  | 708.5  | 708.5  | 708.1  |
| 10°   | 704.4  | 705.0  | 704.7  | 705.0  | 705.7  | 705.7  | 704.4  | 703.0  | 703.4  | 702.7  | 702.7  |
| 12.5° | 698.6  | 699.6  | 699.9  | 701.3  | 703.0  | 703.0  | 702.0  | 698.9  | 698.3  | 697.9  | 697.6  |
| 15°   | 694.9  | 695.9  | 697.3  | 698.6  | 701.6  | 701.6  | 701.6  | 696.9  | 695.5  | 694.2  | 693.5  |
| 17.5° | 693.9  | 695.2  | 697.3  | 699.3  | 703.4  | 703.4  | 704.0  | 699.3  | 695.9  | 693.9  | 693.2  |
| 20°   | 696.6  | 697.6  | 700.6  | 704.4  | 710.1  | 710.1  | 710.8  | 705.7  | 700.6  | 697.6  | 696.6  |
| 22.5° | 702.0  | 703.7  | 707.4  | 714.2  | 722.3  | 722.3  | 723.6  | 715.2  | 707.0  | 703.0  | 701.6  |
| 25°   | 713.9  | 715.2  | 719.6  | 728.7  | 738.2  | 738.2  | 738.9  | 729.1  | 717.9  | 712.5  | 710.8  |
| 27.5° | 731.8  | 733.8  | 738.6  | 749.4  | 757.2  | 757.2  | 756.8  | 750.1  | 742.0  | 736.2  | 734.8  |
| 30°   | 757.2  | 759.6  | 766.7  | 778.2  | 783.3  | 783.3  | 783.6  | 779.2  | 773.4  | 767.3  | 766.0  |
| 32.5° | 791.5  | 792.8  | 800.9  | 811.7  | 816.5  | 816.5  | 815.2  | 813.1  | 803.6  | 793.5  | 792.8  |
| 35°   | 829.7  | 832.1  | 841.9  | 854.8  | 859.2  | 859.2  | 855.4  | 852.5  | 841.3  | 833.1  | 833.1  |
| 37.5° | 880.6  | 881.6  | 891.1  | 905.6  | 910.3  | 910.3  | 906.9  | 904.3  | 892.4  | 881.9  | 882.2  |
| 40°   | 940.1  | 942.2  | 950.3  | 967.2  | 967.2  | 967.2  | 966.9  | 964.9  | 953.1  | 942.9  | 943.2  |
| 42.5° | 1011.0 | 1012.0 | 1021.8 | 1039.7 | 1038.4 | 1038.4 | 1036.4 | 1033.6 | 1026.2 | 1014.7 | 1010.6 |
| 45°   | 1086.5 | 1090.6 | 1107.6 | 1124.8 | 1122.1 | 1122.1 | 1116.7 | 1116.0 | 1109.2 | 1092.0 | 1093.0 |
| 47.5° | 1177.6 | 1184.4 | 1200.7 | 1221.4 | 1218.3 | 1218.3 | 1207.5 | 1211.5 | 1202.1 | 1183.1 | 1179.7 |
| 50°   | 1280.3 | 1284.7 | 1308.8 | 1328.1 | 1325.4 | 1325.4 | 1321.3 | 1322.0 | 1298.3 | 1271.5 | 1271.5 |
| 52.5° | 1389.7 | 1394.1 | 1426.7 | 1456.8 | 1458.5 | 1458.5 | 1443.6 | 1442.9 | 1404.3 | 1369.1 | 1362.3 |
| 55°   | 1512.4 | 1514.4 | 1556.4 | 1600.8 | 1610.3 | 1610.3 | 1586.3 | 1572.7 | 1522.5 | 1481.6 | 1477.8 |
| 57.5° | 1639.1 | 1646.6 | 1693.0 | 1750.6 | 1778.7 | 1778.7 | 1756.0 | 1719.7 | 1671.3 | 1624.2 | 1621.8 |
| 60°   | 1779.4 | 1779.7 | 1840.0 | 1908.1 | 1965.0 | 1965.0 | 1946.4 | 1897.9 | 1835.3 | 1772.9 | 1770.2 |
| 62.5° | 1876.6 | 1891.2 | 1967.4 | 2082.6 | 2184.6 | 2184.6 | 2166.6 | 2065.0 | 1941.7 | 1841.0 | 1830.9 |
| 65°   | 1896.6 | 1906.4 | 2022.6 | 2217.8 | 2426.1 | 2426.1 | 2375.3 | 2159.1 | 1948.7 | 1814.6 | 1807.8 |
| 67.5° | 1735.0 | 1745.5 | 1902.0 | 2201.5 | 2595.6 | 2595.6 | 2510.8 | 2113.8 | 1828.1 | 1662.2 | 1648.9 |
| 70°   | 1342.0 | 1353.8 | 1547.3 | 1937.9 | 2557.9 | 2557.9 | 2414.3 | 1843.7 | 1507.7 | 1328.4 | 1304.4 |
| 72.5° | 713.5  | 757.2  | 922.5  | 1330.1 | 2076.1 | 2076.1 | 1979.6 | 1345.4 | 972.3  | 794.8  | 763.0  |
| 75°   | 260.5  | 266.0  | 358.1  | 589.8  | 1207.8 | 1207.8 | 1254.2 | 641.7  | 368.9  | 284.9  | 270.4  |
| 77.5° | 107.7  | 107.4  | 117.9  | 178.2  | 438.7  | 438.7  | 489.5  | 188.4  | 117.5  | 108.8  | 107.4  |
| 80°   | 63.7   | 63.7   | 70.2   | 74.2   | 115.5  | 115.5  | 129.1  | 84.0   | 70.5   | 64.4   | 65.4   |
| 82.5° | 28.4   | 30.1   | 44.4   | 46.7   | 55.9   | 55.9   | 62.3   | 53.6   | 46.0   | 31.9   | 28.8   |
| 85°   | 15.6   | 13.5   | 23.4   | 24.4   | 26.8   | 26.8   | 29.4   | 29.1   | 26.8   | 15.6   | 15.9   |
| 87.5° | 3.1    | 3.8    | 6.8    | 5.1    | 5.8    | 5.8    | 6.8    | 9.5    | 9.8    | 5.4    | 4.4    |
| 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)