

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: P939070

Luminaire Tested: **GALN-SB1C-730-U-5WQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P939070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7578 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 54.4  
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

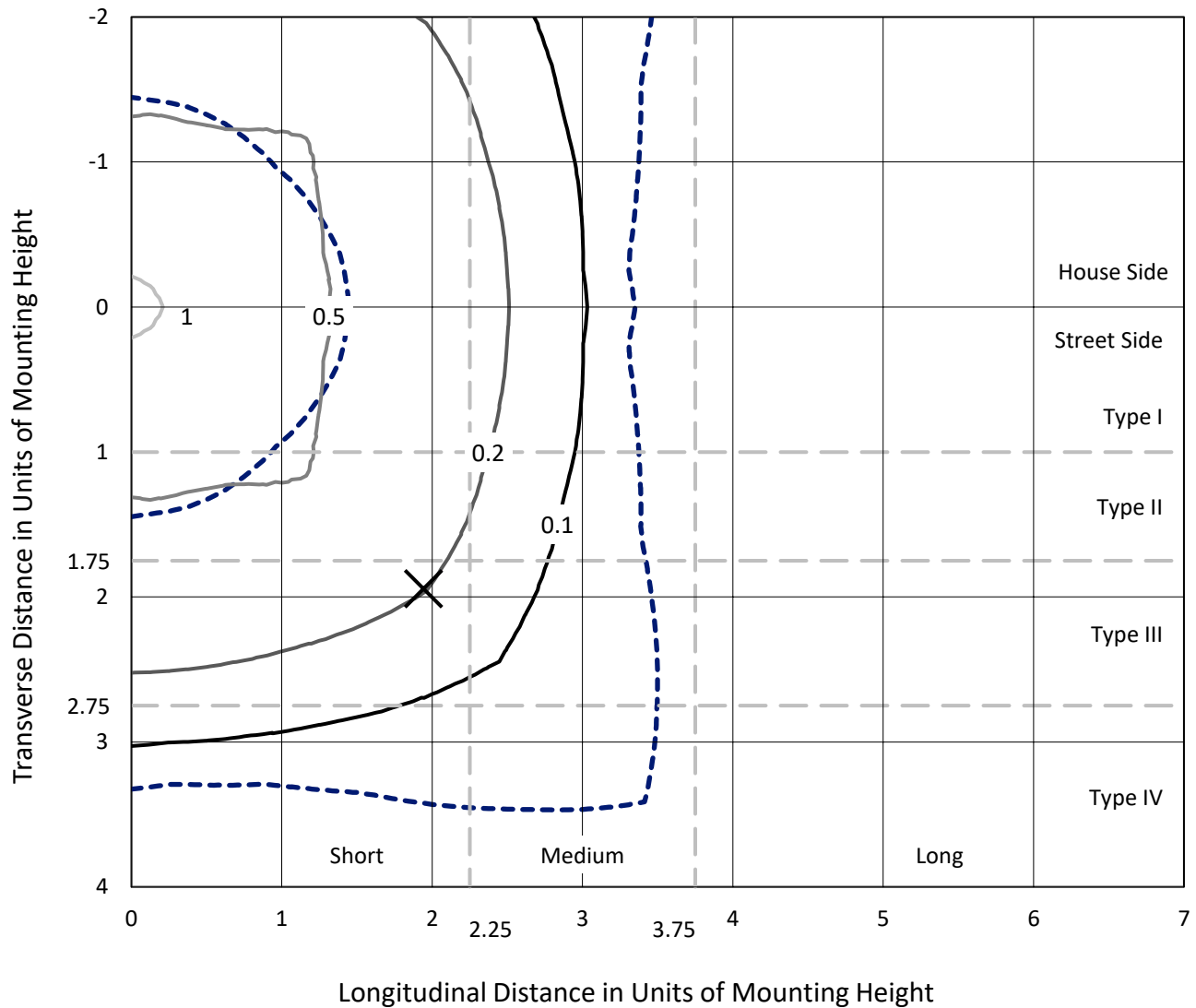


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

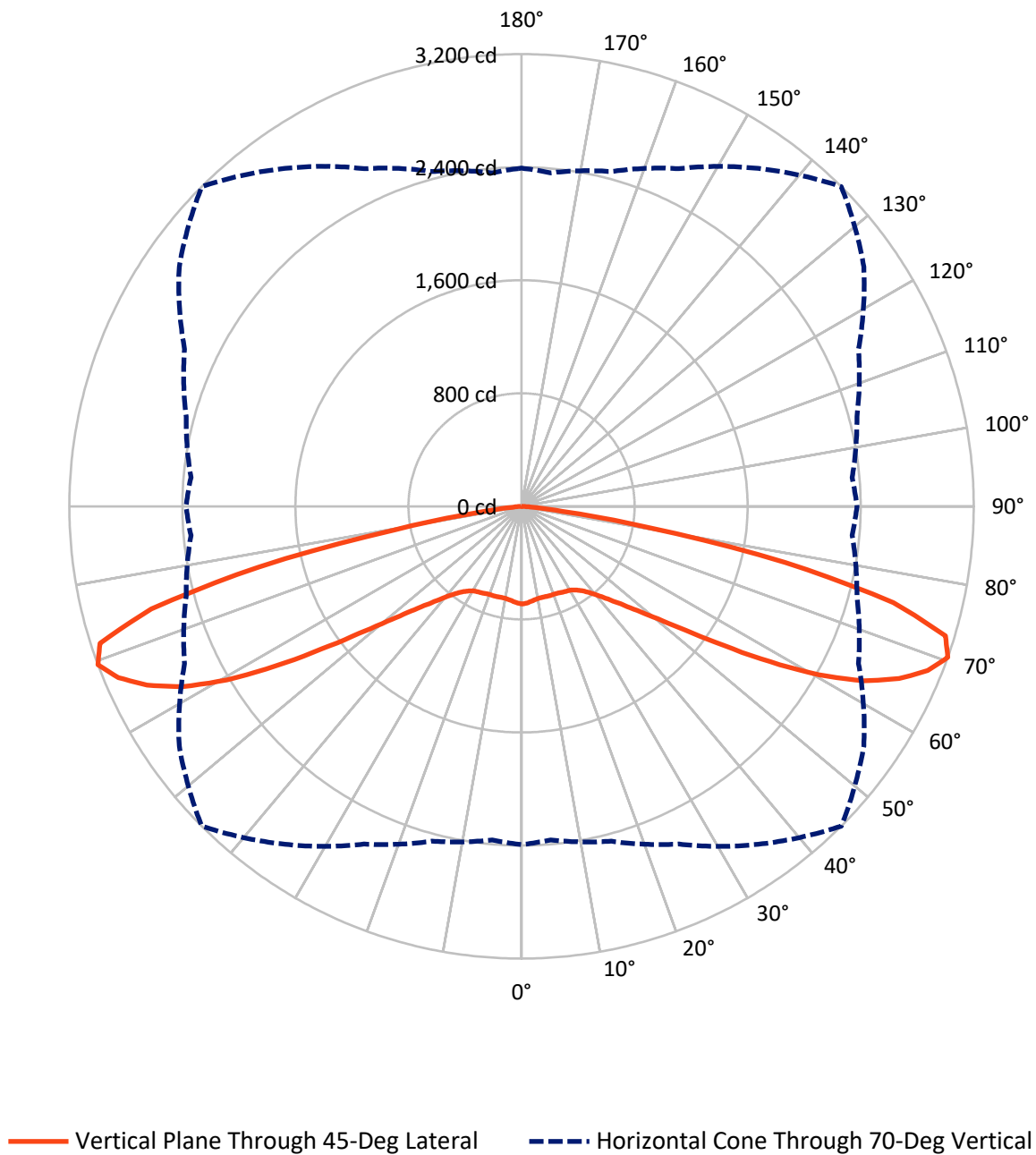


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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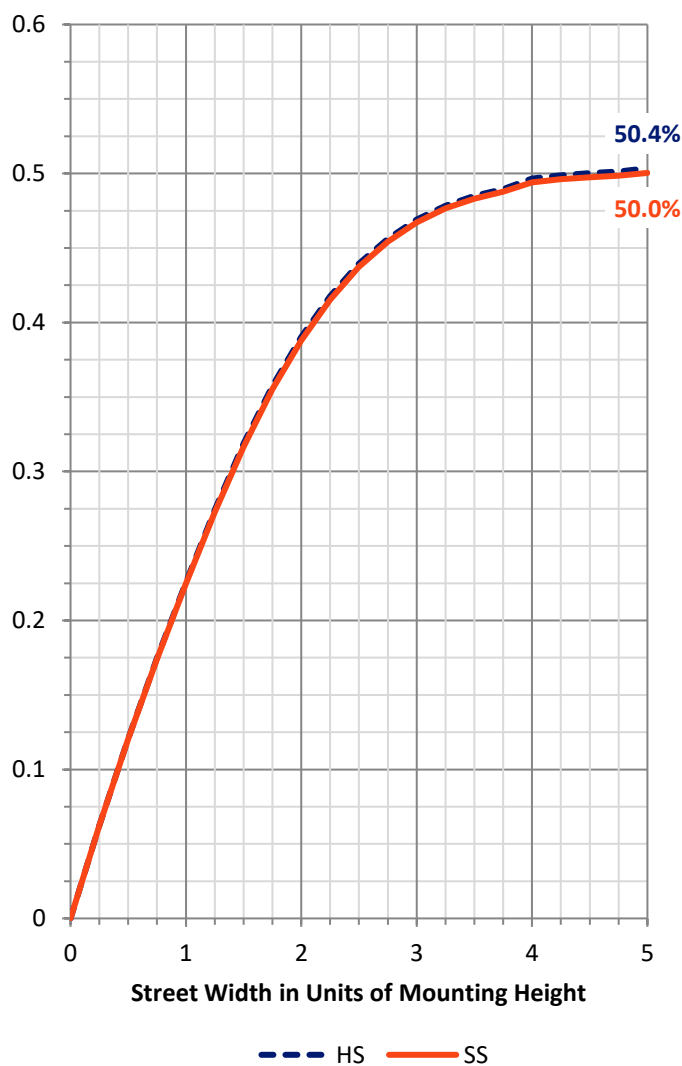
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3789.0   | 0.0    | 3789.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3789.0   | 0.0    | 3789.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7578.0   | 0.0    | 7578.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 64.3   | 0.8       |
| 10°-20°   | 188.8  | 2.5       |
| 20°-30°   | 314.2  | 4.1       |
| 30°-40°   | 475.2  | 6.3       |
| 40°-50°   | 789.6  | 10.4      |
| 50°-60°   | 1490.0 | 19.7      |
| 60°-70°   | 2516.0 | 33.2      |
| 70°-80°   | 1653.3 | 21.8      |
| 80°-90°   | 86.6   | 1.1       |
| 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°    | 7578.0 | 100.0     |
| 0°-180°   | 7578.0 | 100.0     |

**Coefficient of Utilization**



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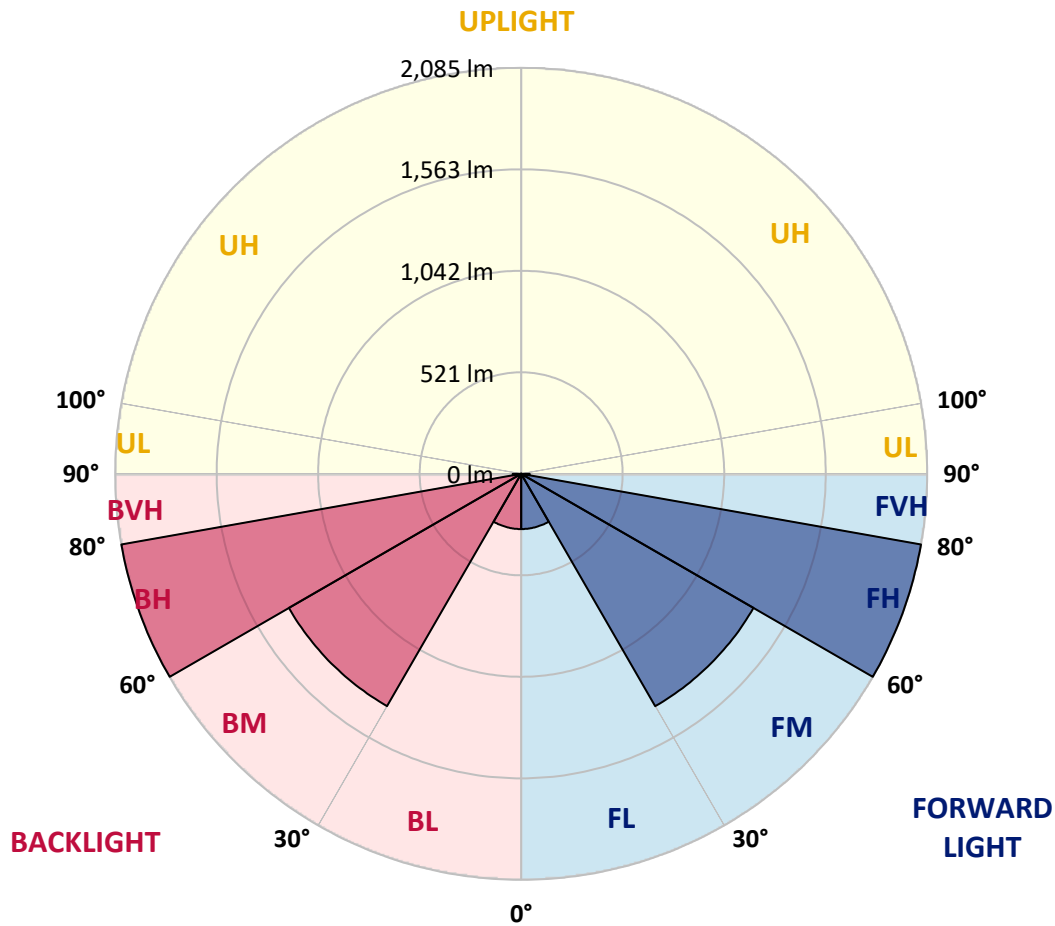
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 283.7  | 3.7       |                         |      |         |
| FM   | (30°-60°)   | 1377.4 | 18.2      |                         |      |         |
| FH   | (60°-80°)   | 2084.6 | 27.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 43.3   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 283.7  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1377.4 | 18.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2084.6 | 27.5      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 43.3   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 691.3  | 691.3  | 691.3  | 691.3  | 691.3  | 691.3  | 691.3  | 691.3  | 691.3  | 691.3  | 691.3  |
| 2.5°  | 686.9  | 688.9  | 688.1  | 686.5  | 686.5  | 685.4  | 686.5  | 687.3  | 688.5  | 689.3  | 688.9  |
| 5°    | 677.9  | 679.4  | 679.1  | 677.9  | 678.3  | 677.1  | 677.9  | 679.1  | 679.8  | 680.2  | 680.2  |
| 7.5°  | 670.0  | 671.6  | 670.8  | 668.8  | 668.8  | 667.6  | 668.0  | 669.2  | 670.4  | 670.8  | 670.8  |
| 10°   | 668.0  | 669.6  | 667.2  | 664.1  | 662.9  | 661.3  | 661.7  | 662.9  | 665.3  | 666.5  | 666.5  |
| 12.5° | 668.8  | 670.0  | 667.6  | 662.9  | 661.7  | 660.1  | 660.1  | 661.3  | 664.5  | 666.1  | 666.5  |
| 15°   | 671.2  | 672.4  | 668.8  | 663.7  | 662.5  | 661.3  | 660.9  | 662.5  | 666.1  | 668.8  | 669.2  |
| 17.5° | 675.5  | 676.7  | 671.2  | 664.1  | 662.5  | 662.9  | 662.5  | 663.7  | 669.2  | 674.3  | 674.3  |
| 20°   | 679.4  | 680.2  | 672.8  | 664.1  | 662.5  | 662.9  | 662.5  | 664.9  | 672.0  | 679.1  | 679.4  |
| 22.5° | 680.6  | 681.4  | 674.3  | 666.8  | 665.7  | 666.1  | 665.7  | 668.0  | 674.7  | 681.8  | 681.8  |
| 25°   | 681.0  | 682.2  | 676.7  | 670.8  | 672.8  | 673.5  | 672.8  | 673.1  | 678.3  | 684.6  | 684.2  |
| 27.5° | 686.9  | 688.5  | 683.4  | 678.3  | 679.4  | 679.1  | 680.2  | 681.4  | 685.4  | 691.7  | 690.1  |
| 30°   | 699.1  | 700.3  | 696.0  | 690.9  | 690.1  | 687.3  | 690.9  | 694.8  | 699.1  | 704.7  | 703.5  |
| 32.5° | 719.2  | 721.6  | 716.1  | 710.6  | 707.0  | 705.4  | 708.2  | 714.9  | 720.8  | 726.7  | 724.4  |
| 35°   | 752.7  | 754.3  | 749.2  | 738.9  | 732.6  | 732.6  | 735.0  | 743.7  | 753.1  | 760.6  | 757.8  |
| 37.5° | 800.0  | 801.9  | 792.9  | 780.7  | 771.2  | 771.2  | 774.4  | 783.4  | 797.6  | 808.2  | 804.3  |
| 40°   | 857.5  | 860.2  | 848.8  | 836.2  | 827.2  | 825.6  | 829.5  | 839.8  | 853.2  | 866.5  | 862.2  |
| 42.5° | 926.8  | 930.0  | 915.0  | 904.0  | 896.9  | 896.9  | 898.8  | 908.3  | 920.5  | 937.0  | 935.9  |
| 45°   | 1015.4 | 1020.9 | 1000.5 | 989.4  | 982.7  | 984.3  | 985.5  | 993.8  | 1004.8 | 1023.7 | 1022.9 |
| 47.5° | 1121.0 | 1126.5 | 1104.8 | 1093.4 | 1092.2 | 1099.7 | 1095.0 | 1100.9 | 1106.8 | 1128.5 | 1122.2 |
| 50°   | 1240.7 | 1250.2 | 1235.2 | 1234.4 | 1236.8 | 1250.6 | 1239.6 | 1242.7 | 1236.0 | 1249.8 | 1241.5 |
| 52.5° | 1387.3 | 1401.0 | 1398.3 | 1403.0 | 1429.4 | 1457.8 | 1432.6 | 1421.5 | 1396.3 | 1400.7 | 1386.1 |
| 55°   | 1564.9 | 1585.8 | 1589.7 | 1618.1 | 1677.9 | 1735.8 | 1682.3 | 1637.8 | 1584.2 | 1574.4 | 1559.0 |
| 57.5° | 1767.0 | 1783.5 | 1802.4 | 1860.3 | 1972.2 | 2075.0 | 1972.2 | 1873.7 | 1789.4 | 1769.3 | 1755.1 |
| 60°   | 1984.4 | 2004.9 | 2023.0 | 2108.5 | 2274.7 | 2419.2 | 2271.5 | 2115.2 | 2003.7 | 1976.5 | 1952.9 |
| 62.5° | 2218.0 | 2244.4 | 2257.0 | 2351.9 | 2545.7 | 2718.2 | 2548.4 | 2359.0 | 2235.3 | 2206.1 | 2182.5 |
| 65°   | 2442.1 | 2463.7 | 2477.9 | 2579.2 | 2764.3 | 2937.2 | 2776.9 | 2590.2 | 2463.0 | 2424.7 | 2405.8 |
| 67.5° | 2546.5 | 2558.3 | 2592.9 | 2707.6 | 2902.9 | 3100.3 | 2936.0 | 2719.8 | 2577.6 | 2510.6 | 2511.4 |
| 70°   | 2393.6 | 2369.6 | 2453.1 | 2636.7 | 2919.5 | 3200.3 | 2957.3 | 2631.1 | 2457.0 | 2348.3 | 2374.3 |
| 72.5° | 1849.7 | 1808.3 | 1953.3 | 2267.2 | 2730.4 | 3136.5 | 2749.3 | 2284.9 | 2043.5 | 1822.9 | 1877.6 |
| 75°   | 1006.4 | 959.5  | 1159.6 | 1556.6 | 2177.4 | 2718.6 | 2227.4 | 1601.1 | 1291.2 | 998.9  | 1063.9 |
| 77.5° | 284.0  | 266.3  | 427.8  | 753.1  | 1309.7 | 1908.8 | 1360.1 | 769.6  | 507.3  | 300.9  | 334.4  |
| 80°   | 87.0   | 84.3   | 114.2  | 226.9  | 556.2  | 914.2  | 534.5  | 229.6  | 145.3  | 91.8   | 96.9   |
| 82.5° | 51.6   | 47.3   | 56.7   | 82.7   | 141.8  | 287.1  | 137.9  | 86.3   | 69.3   | 46.5   | 50.4   |
| 85°   | 29.5   | 27.6   | 33.5   | 40.2   | 47.7   | 61.1   | 39.8   | 41.0   | 37.0   | 24.8   | 26.0   |
| 87.5° | 12.2   | 11.0   | 13.0   | 12.6   | 11.0   | 14.2   | 10.6   | 12.6   | 15.0   | 9.8    | 9.1    |
| 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)