

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: P946657

Luminaire Tested: **GALN-SB2B-730-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P946657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11793 lumens  
Efficiency: N/A  
Efficacy: 159.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 73.9  
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



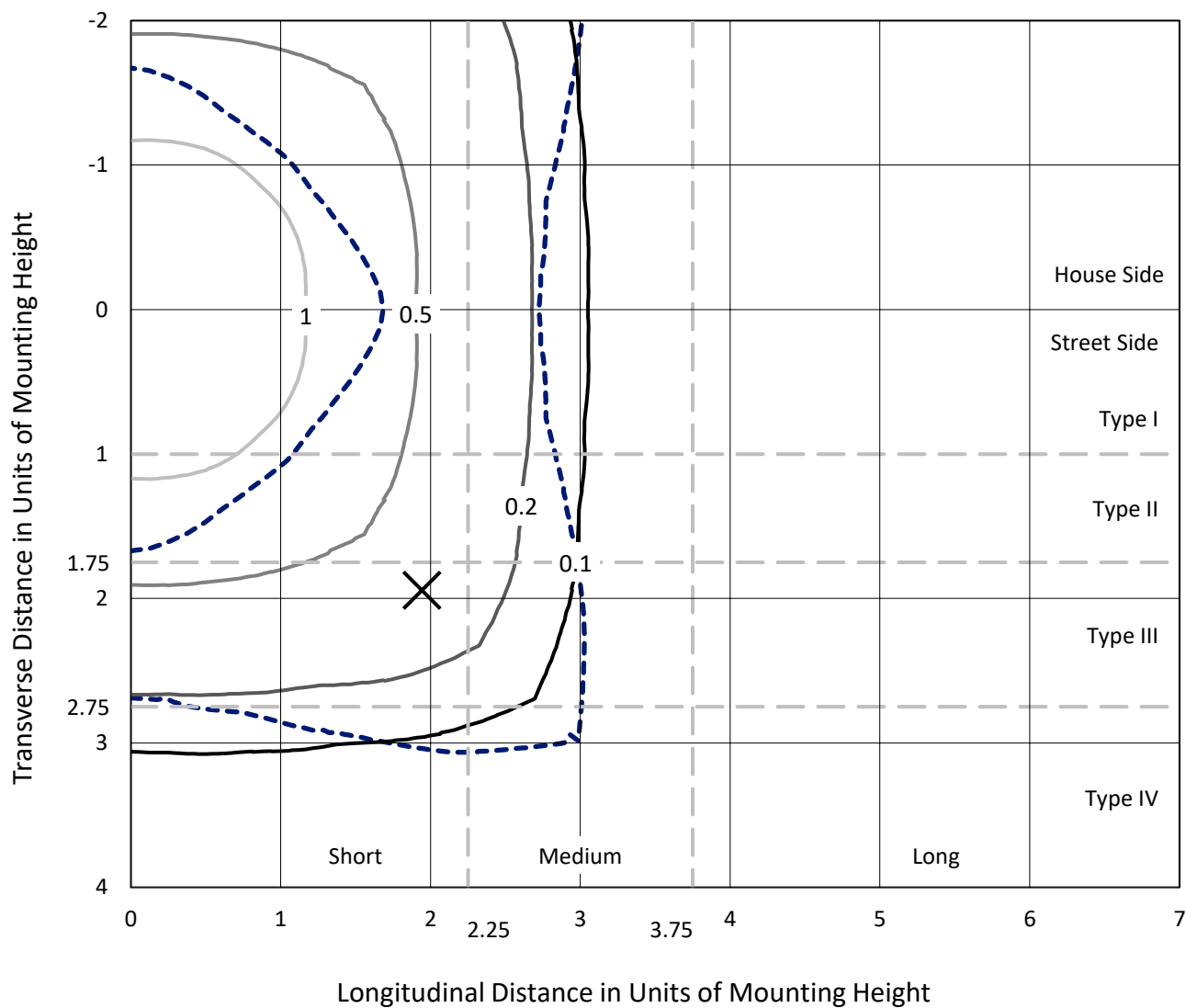
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

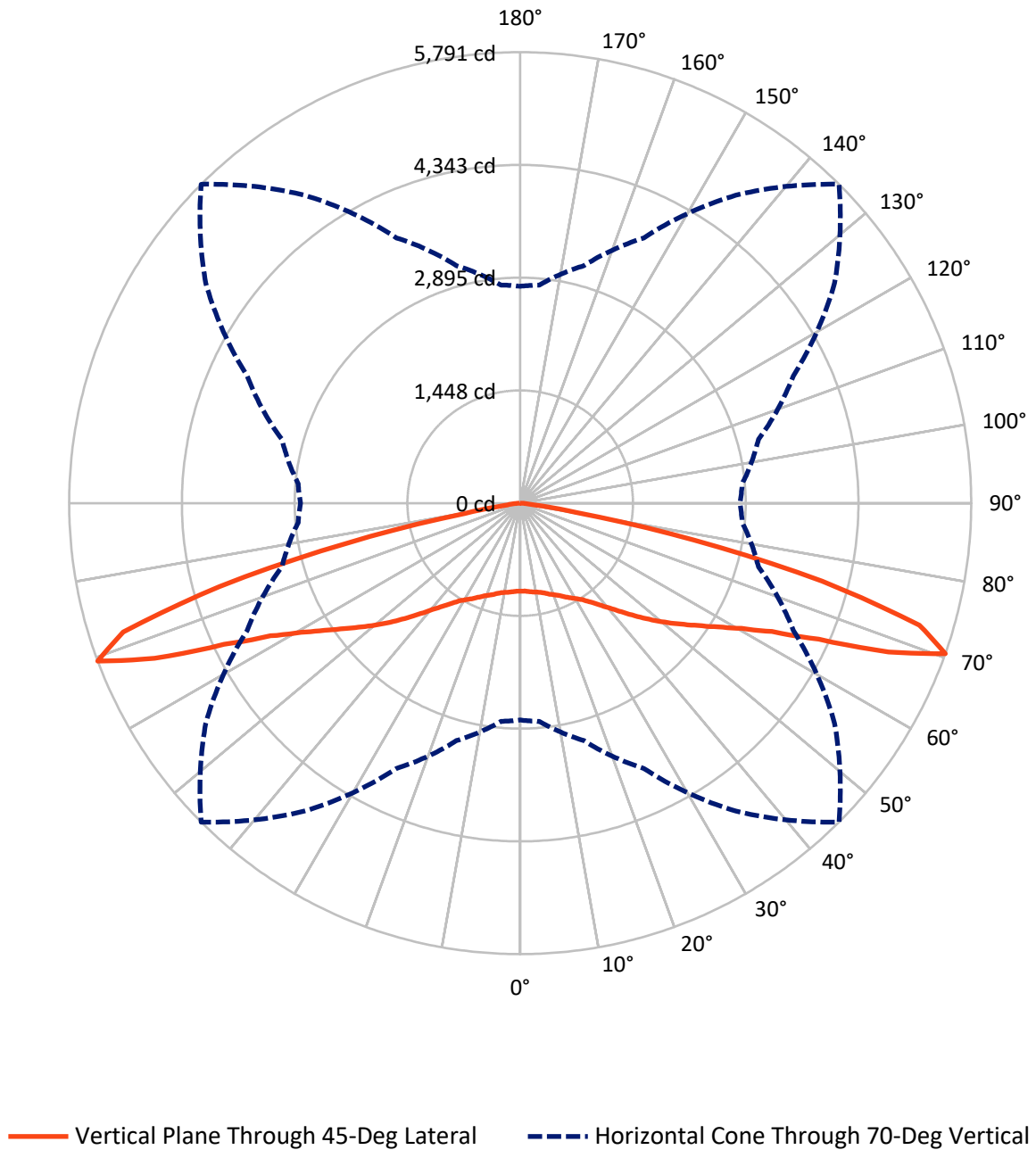


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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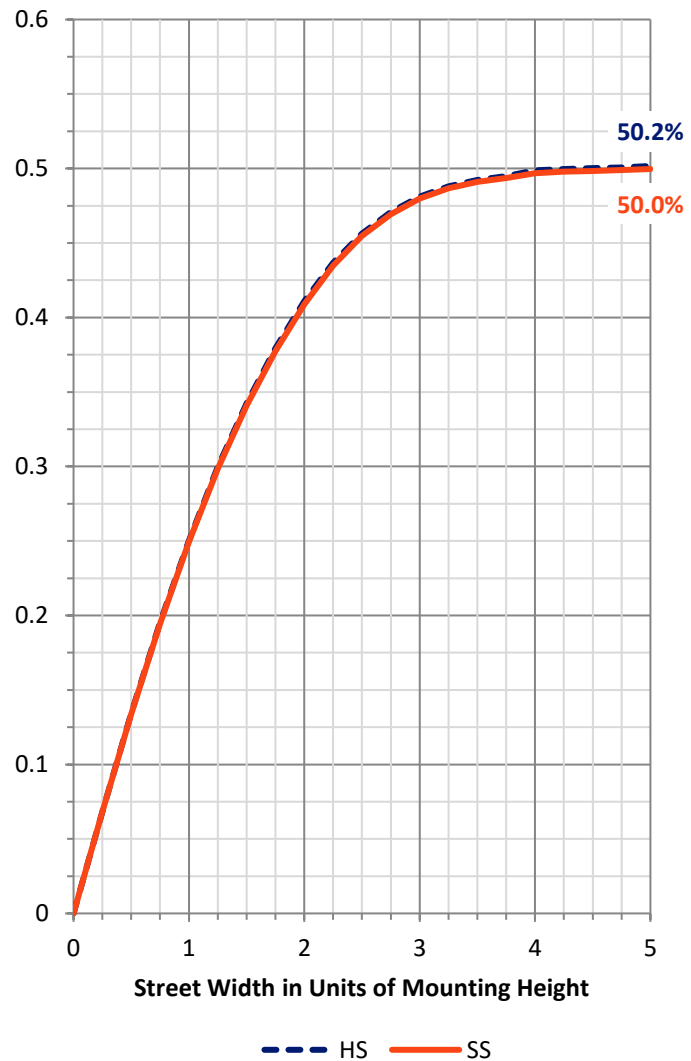
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5896.5   | 0.0    | 5896.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5896.5   | 0.0    | 5896.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11793.0  | 0.0    | 11793.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 109.7   | 0.9       |
| 10°-20°   | 340.3   | 2.9       |
| 20°-30°   | 608.2   | 5.2       |
| 30°-40°   | 985.8   | 8.4       |
| 40°-50°   | 1605.8  | 13.6      |
| 50°-60°   | 2448.2  | 20.8      |
| 60°-70°   | 3642.2  | 30.9      |
| 70°-80°   | 1985.1  | 16.8      |
| 80°-90°   | 67.6    | 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°    | 11793.0 | 100.0     |
| 0°-180°   | 11793.0 | 100.0     |

**Coefficient of Utilization**



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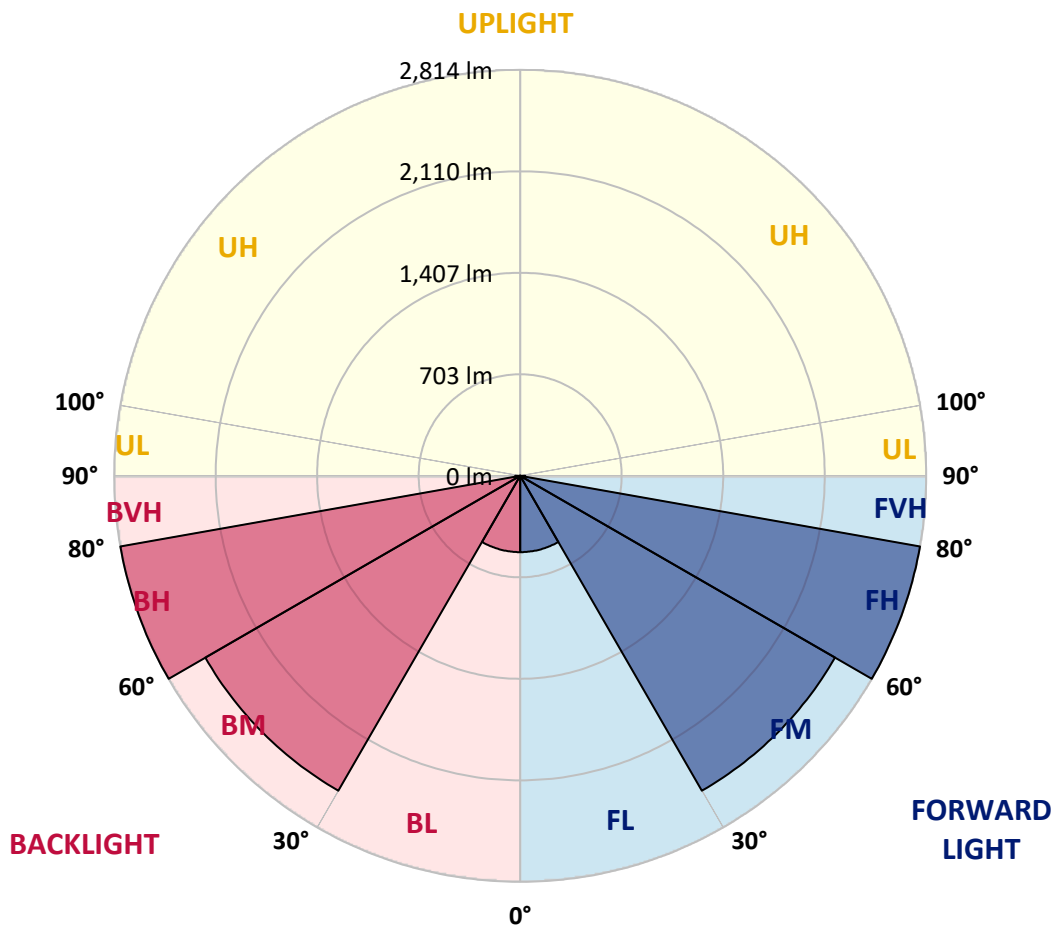
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 529.1  | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 2519.9 | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 2813.7 | 23.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 33.8   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 529.1  | 4.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2519.9 | 21.4      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2813.7 | 23.9      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 33.8   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 |
| 2.5°  | 1135.0 | 1136.2 | 1133.8 | 1132.6 | 1131.4 | 1129.6 | 1130.2 | 1133.2 | 1135.6 | 1135.0 | 1135.6 |
| 5°    | 1144.4 | 1145.6 | 1143.9 | 1143.3 | 1140.9 | 1140.3 | 1140.3 | 1143.3 | 1145.0 | 1143.9 | 1144.4 |
| 7.5°  | 1155.1 | 1156.9 | 1153.9 | 1153.3 | 1152.1 | 1151.0 | 1150.4 | 1153.3 | 1155.1 | 1155.1 | 1155.1 |
| 10°   | 1165.2 | 1166.9 | 1164.6 | 1162.8 | 1161.6 | 1161.6 | 1160.4 | 1162.8 | 1165.8 | 1165.2 | 1165.2 |
| 12.5° | 1175.8 | 1177.0 | 1174.6 | 1173.5 | 1173.5 | 1175.2 | 1173.5 | 1174.6 | 1177.0 | 1175.8 | 1175.2 |
| 15°   | 1188.9 | 1189.4 | 1188.9 | 1190.6 | 1193.6 | 1199.5 | 1194.2 | 1193.0 | 1194.2 | 1191.2 | 1191.2 |
| 17.5° | 1206.6 | 1207.8 | 1210.2 | 1214.3 | 1218.5 | 1229.1 | 1219.6 | 1216.7 | 1216.7 | 1210.8 | 1210.8 |
| 20°   | 1228.5 | 1230.3 | 1233.8 | 1241.0 | 1246.3 | 1256.3 | 1246.9 | 1242.7 | 1241.0 | 1233.3 | 1233.3 |
| 22.5° | 1251.6 | 1254.6 | 1259.9 | 1269.4 | 1278.8 | 1288.3 | 1278.8 | 1271.7 | 1266.4 | 1256.3 | 1255.8 |
| 25°   | 1278.3 | 1281.8 | 1290.1 | 1305.5 | 1318.5 | 1332.1 | 1320.9 | 1306.7 | 1296.0 | 1281.8 | 1281.2 |
| 27.5° | 1316.1 | 1320.3 | 1330.4 | 1349.3 | 1365.9 | 1377.7 | 1367.1 | 1348.7 | 1333.9 | 1316.7 | 1316.1 |
| 30°   | 1369.4 | 1373.6 | 1385.4 | 1405.5 | 1416.8 | 1424.5 | 1417.4 | 1403.2 | 1385.4 | 1365.9 | 1365.9 |
| 32.5° | 1438.1 | 1443.4 | 1456.5 | 1475.4 | 1477.8 | 1479.0 | 1476.6 | 1469.5 | 1456.5 | 1432.8 | 1433.4 |
| 35°   | 1525.1 | 1531.1 | 1545.9 | 1561.3 | 1558.9 | 1561.3 | 1557.7 | 1555.3 | 1545.9 | 1518.6 | 1518.6 |
| 37.5° | 1631.7 | 1638.8 | 1654.2 | 1666.1 | 1660.1 | 1657.2 | 1657.8 | 1658.4 | 1653.0 | 1622.8 | 1622.8 |
| 40°   | 1755.5 | 1764.9 | 1776.2 | 1788.6 | 1778.5 | 1769.7 | 1775.6 | 1780.3 | 1775.6 | 1744.8 | 1744.8 |
| 42.5° | 1882.7 | 1896.4 | 1908.2 | 1926.0 | 1917.7 | 1906.4 | 1914.7 | 1920.0 | 1910.0 | 1876.8 | 1879.2 |
| 45°   | 2024.2 | 2037.3 | 2052.7 | 2079.3 | 2073.4 | 2061.5 | 2073.4 | 2074.6 | 2057.4 | 2018.3 | 2022.5 |
| 47.5° | 2170.5 | 2184.1 | 2207.2 | 2242.7 | 2240.3 | 2227.3 | 2242.7 | 2234.4 | 2212.5 | 2165.7 | 2162.8 |
| 50°   | 2309.0 | 2328.0 | 2363.5 | 2413.2 | 2418.0 | 2402.0 | 2422.7 | 2406.7 | 2370.0 | 2311.4 | 2310.2 |
| 52.5° | 2439.3 | 2459.4 | 2515.7 | 2583.2 | 2600.3 | 2579.6 | 2607.4 | 2579.6 | 2524.5 | 2449.3 | 2442.2 |
| 55°   | 2576.0 | 2598.5 | 2665.4 | 2753.7 | 2788.0 | 2772.6 | 2798.7 | 2756.6 | 2678.5 | 2587.3 | 2574.9 |
| 57.5° | 2737.1 | 2750.7 | 2830.6 | 2935.4 | 2993.4 | 2997.0 | 3008.8 | 2937.8 | 2843.1 | 2739.5 | 2725.2 |
| 60°   | 2911.7 | 2930.7 | 3017.7 | 3143.2 | 3235.0 | 3264.6 | 3252.2 | 3146.8 | 3036.7 | 2917.7 | 2898.7 |
| 62.5° | 3135.5 | 3156.3 | 3260.5 | 3410.8 | 3555.9 | 3629.3 | 3580.8 | 3428.0 | 3291.8 | 3149.2 | 3124.3 |
| 65°   | 3320.9 | 3343.9 | 3532.2 | 3800.4 | 4064.5 | 4211.9 | 4089.9 | 3808.7 | 3563.6 | 3362.3 | 3329.1 |
| 67.5° | 3186.5 | 3214.9 | 3510.3 | 4002.9 | 4659.5 | 5099.4 | 4682.0 | 4063.3 | 3583.1 | 3310.2 | 3269.3 |
| 70°   | 2785.0 | 2811.7 | 3156.3 | 3758.4 | 4827.1 | 5790.9 | 4927.7 | 3869.1 | 3167.5 | 2862.0 | 2821.2 |
| 72.5° | 1849.0 | 1934.8 | 2283.6 | 3005.9 | 4310.2 | 5358.7 | 4352.8 | 2944.9 | 2118.4 | 1844.9 | 1785.1 |
| 75°   | 613.4  | 682.1  | 920.1  | 1558.3 | 2886.9 | 4007.6 | 2748.3 | 1378.9 | 728.8  | 524.6  | 496.1  |
| 77.5° | 154.5  | 178.2  | 245.7  | 445.8  | 1151.6 | 2281.8 | 1036.7 | 364.1  | 198.3  | 138.5  | 123.7  |
| 80°   | 75.2   | 82.9   | 118.4  | 148.6  | 288.3  | 725.3  | 270.6  | 139.7  | 93.5   | 72.2   | 66.3   |
| 82.5° | 41.4   | 42.0   | 66.9   | 84.1   | 107.2  | 187.7  | 111.3  | 81.7   | 53.9   | 43.8   | 43.8   |
| 85°   | 25.5   | 24.9   | 35.5   | 45.0   | 45.0   | 66.9   | 53.3   | 45.0   | 30.8   | 27.2   | 28.4   |
| 87.5° | 10.1   | 10.1   | 13.0   | 14.2   | 12.4   | 17.2   | 13.6   | 14.8   | 11.8   | 11.2   | 11.8   |
| 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)