

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: P945587

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

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P945587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
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-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7850 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

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

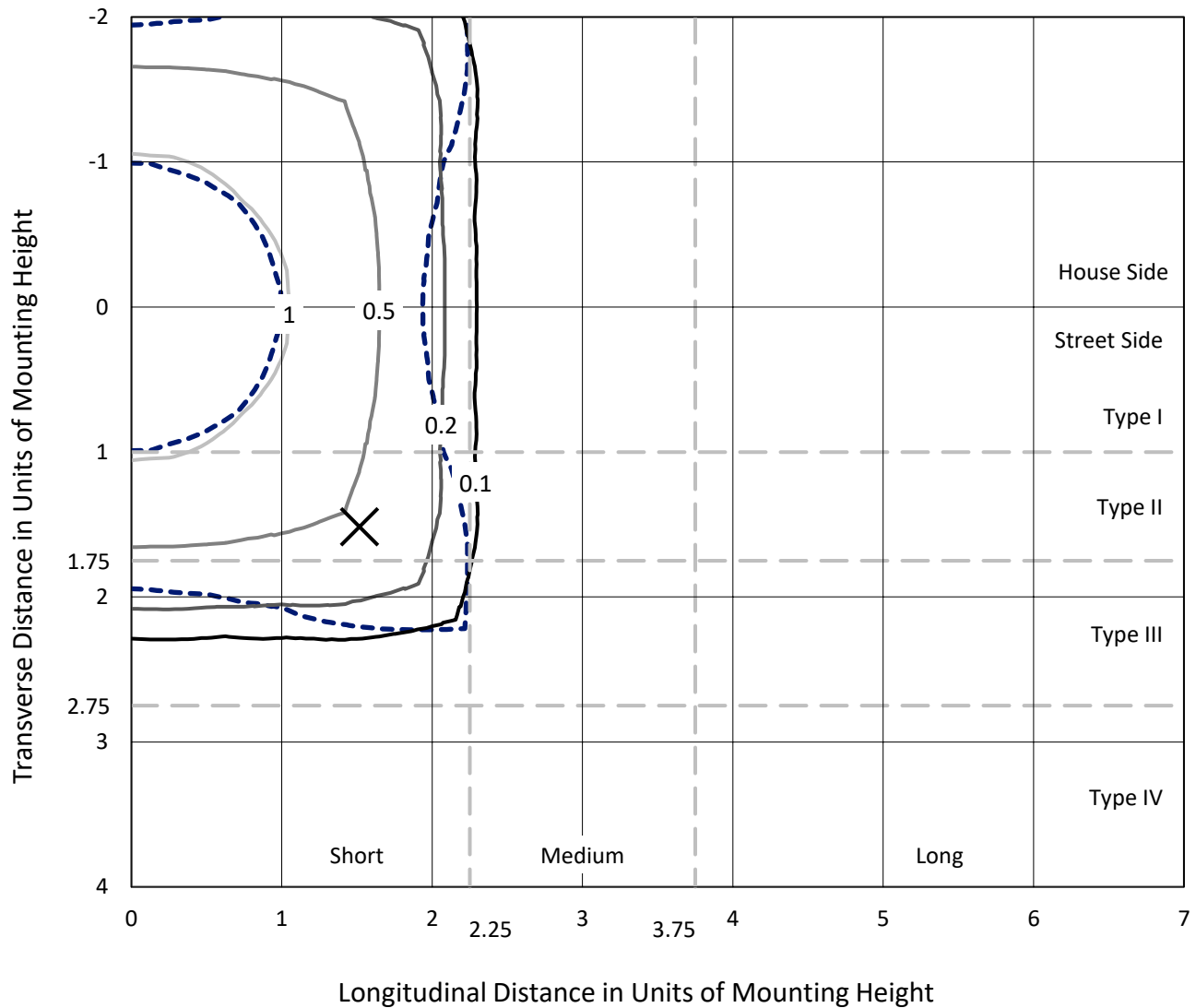


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

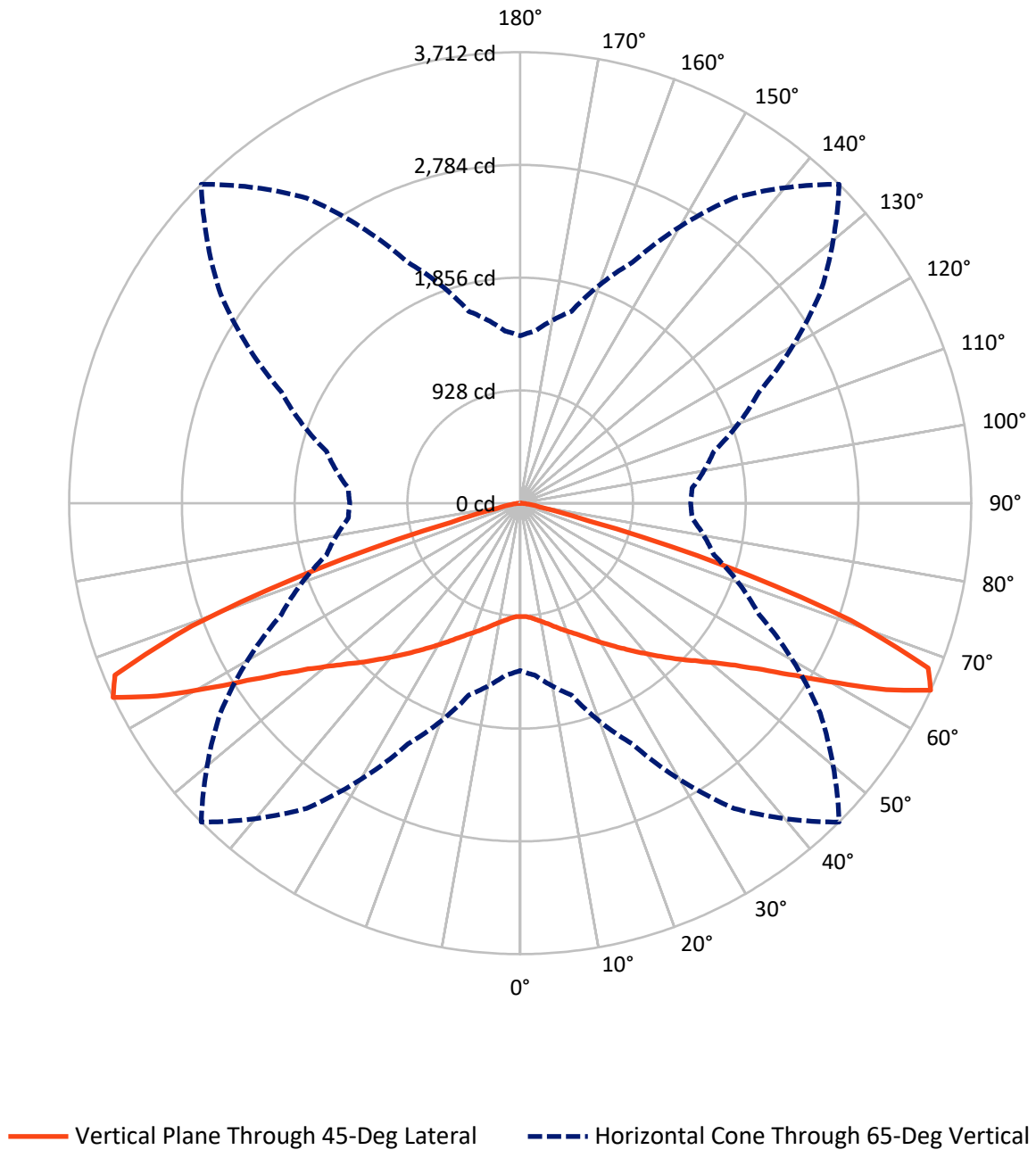


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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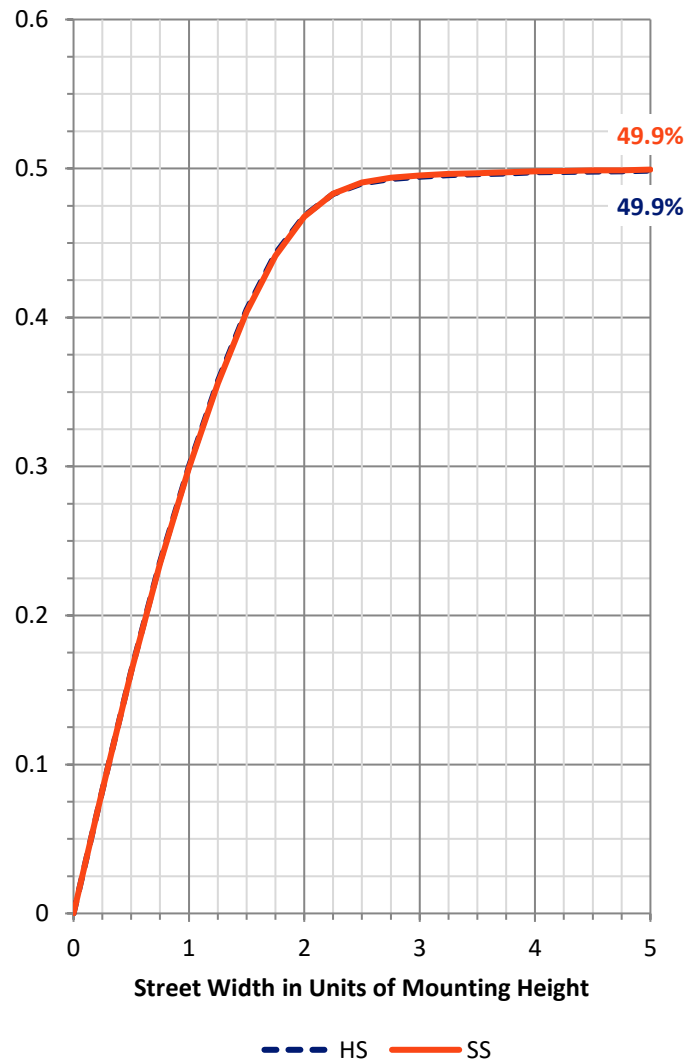
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3925.0   | 0.0    | 3925.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3925.0   | 0.0    | 3925.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7850.0   | 0.0    | 7850.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 92.2   | 1.2       |
| 10°-20°   | 300.9  | 3.8       |
| 20°-30°   | 568.0  | 7.2       |
| 30°-40°   | 930.2  | 11.8      |
| 40°-50°   | 1442.2 | 18.4      |
| 50°-60°   | 2130.5 | 27.1      |
| 60°-70°   | 2028.0 | 25.8      |
| 70°-80°   | 327.3  | 4.2       |
| 80°-90°   | 30.8   | 0.4       |
| 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°    | 7850.0 | 100.0     |
| 0°-180°   | 7850.0 | 100.0     |

**Coefficient of Utilization**



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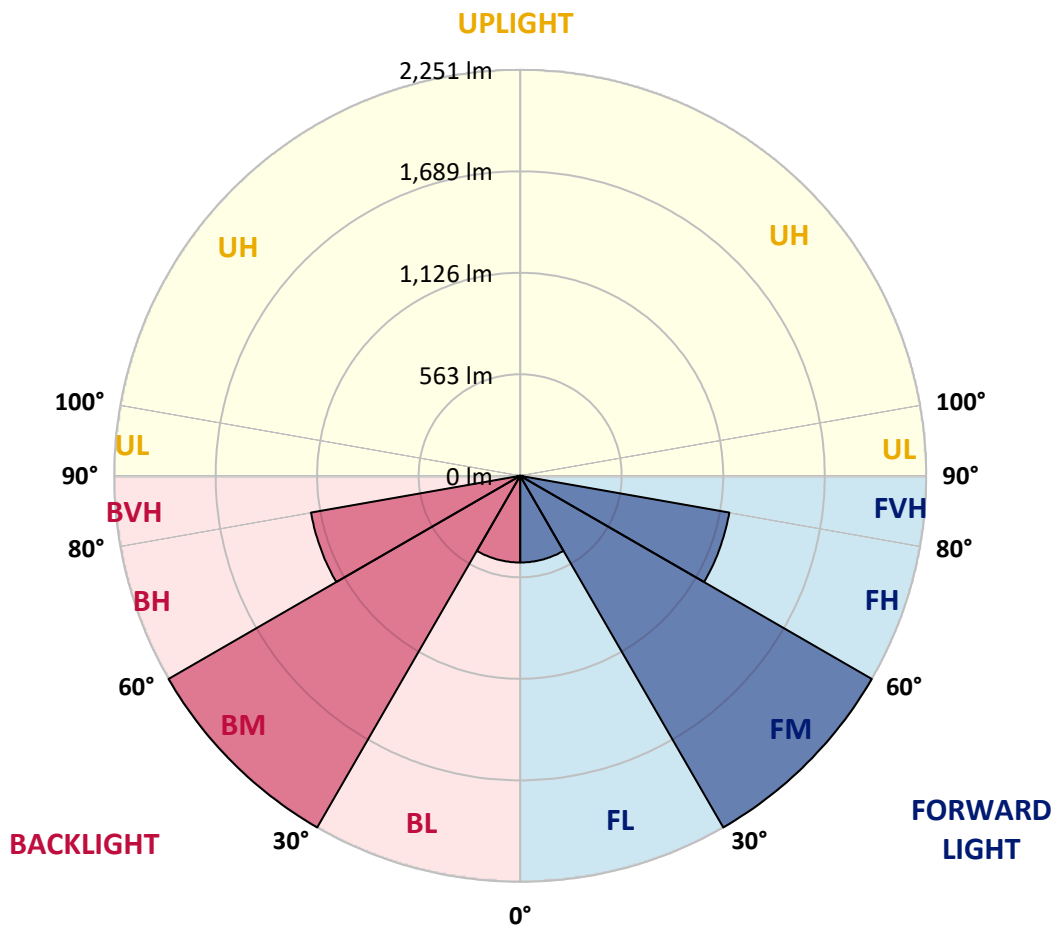
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 480.5  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 2251.4 | 28.7      |                         |      |         |
| FH   | (60°-80°)   | 1177.6 | 15.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 15.4   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 480.5  | 6.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2251.4 | 28.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1177.6 | 15.0      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 15.4   | 0.2       |                         |      | 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°    | 934.2  | 934.2  | 934.2  | 934.2  | 934.2  | 934.2  | 934.2  | 934.2  | 934.2  | 934.2  | 934.2  |
| 2.5°  | 940.5  | 937.4  | 939.7  | 937.8  | 936.2  | 934.6  | 935.4  | 938.2  | 939.3  | 939.7  | 939.7  |
| 5°    | 953.1  | 950.4  | 951.6  | 951.6  | 948.8  | 948.0  | 948.4  | 950.4  | 952.7  | 952.7  | 952.7  |
| 7.5°  | 973.6  | 970.9  | 973.6  | 972.0  | 969.7  | 968.9  | 968.5  | 970.1  | 973.6  | 973.6  | 972.4  |
| 10°   | 998.4  | 995.3  | 996.9  | 996.1  | 993.3  | 992.1  | 991.7  | 994.1  | 997.2  | 996.9  | 996.1  |
| 12.5° | 1025.6 | 1022.1 | 1024.0 | 1021.7 | 1020.9 | 1019.7 | 1019.7 | 1019.3 | 1021.3 | 1019.7 | 1020.5 |
| 15°   | 1055.9 | 1053.6 | 1054.4 | 1052.8 | 1054.0 | 1053.2 | 1050.0 | 1048.4 | 1049.2 | 1046.9 | 1047.3 |
| 17.5° | 1091.8 | 1086.3 | 1089.0 | 1088.2 | 1088.2 | 1089.8 | 1084.7 | 1082.7 | 1084.3 | 1081.9 | 1083.9 |
| 20°   | 1133.1 | 1127.6 | 1128.8 | 1127.2 | 1125.2 | 1126.8 | 1120.5 | 1122.1 | 1123.3 | 1121.7 | 1125.2 |
| 22.5° | 1178.4 | 1171.3 | 1170.9 | 1171.7 | 1167.4 | 1167.8 | 1163.5 | 1167.4 | 1169.8 | 1165.4 | 1169.8 |
| 25°   | 1224.9 | 1217.4 | 1222.5 | 1220.6 | 1215.0 | 1216.2 | 1213.1 | 1217.0 | 1219.0 | 1213.5 | 1219.8 |
| 27.5° | 1274.1 | 1269.0 | 1273.7 | 1274.9 | 1268.2 | 1272.9 | 1268.2 | 1271.8 | 1273.7 | 1265.5 | 1271.8 |
| 30°   | 1331.6 | 1326.5 | 1330.8 | 1334.0 | 1326.1 | 1333.6 | 1329.7 | 1332.0 | 1332.4 | 1322.6 | 1328.5 |
| 32.5° | 1394.3 | 1386.4 | 1397.4 | 1399.0 | 1390.3 | 1399.4 | 1394.3 | 1397.4 | 1399.4 | 1386.0 | 1395.0 |
| 35°   | 1470.7 | 1460.8 | 1473.4 | 1471.4 | 1464.0 | 1471.4 | 1466.7 | 1471.4 | 1476.2 | 1460.0 | 1469.9 |
| 37.5° | 1553.0 | 1542.7 | 1556.1 | 1552.6 | 1545.5 | 1550.6 | 1547.9 | 1551.0 | 1558.5 | 1541.2 | 1551.8 |
| 40°   | 1643.6 | 1631.0 | 1649.1 | 1642.8 | 1636.1 | 1635.3 | 1636.9 | 1638.8 | 1648.7 | 1629.4 | 1635.7 |
| 42.5° | 1740.5 | 1727.1 | 1754.2 | 1744.4 | 1734.9 | 1728.6 | 1733.8 | 1737.7 | 1747.1 | 1725.5 | 1736.9 |
| 45°   | 1851.1 | 1835.8 | 1871.2 | 1859.4 | 1844.4 | 1831.4 | 1839.7 | 1845.6 | 1859.4 | 1833.4 | 1846.8 |
| 47.5° | 1973.2 | 1955.9 | 1993.7 | 1990.2 | 1965.7 | 1937.4 | 1956.3 | 1973.2 | 1983.5 | 1952.0 | 1962.6 |
| 50°   | 2092.6 | 2079.2 | 2128.8 | 2133.1 | 2103.2 | 2063.4 | 2089.8 | 2115.4 | 2118.2 | 2076.8 | 2081.9 |
| 52.5° | 2204.4 | 2191.0 | 2263.1 | 2290.3 | 2263.5 | 2216.2 | 2244.2 | 2270.2 | 2249.3 | 2195.8 | 2197.3 |
| 55°   | 2293.8 | 2282.8 | 2374.6 | 2444.7 | 2453.7 | 2414.7 | 2431.3 | 2430.5 | 2362.0 | 2279.6 | 2282.4 |
| 57.5° | 2315.5 | 2313.9 | 2429.7 | 2578.2 | 2672.7 | 2677.4 | 2644.7 | 2561.3 | 2413.6 | 2302.9 | 2295.8 |
| 60°   | 2217.0 | 2226.9 | 2386.0 | 2647.9 | 2900.0 | 3004.7 | 2863.3 | 2625.1 | 2354.9 | 2201.3 | 2183.1 |
| 62.5° | 1922.4 | 1948.4 | 2140.2 | 2562.8 | 3083.5 | 3381.3 | 3038.6 | 2528.2 | 2113.8 | 1913.4 | 1901.5 |
| 65°   | 1377.7 | 1423.0 | 1634.9 | 2187.1 | 3067.0 | 3712.1 | 3013.4 | 2169.4 | 1650.7 | 1419.5 | 1402.5 |
| 67.5° | 625.1  | 671.1  | 851.1  | 1497.4 | 2666.0 | 3622.3 | 2659.7 | 1513.2 | 893.7  | 673.5  | 663.6  |
| 70°   | 226.5  | 234.3  | 292.2  | 599.5  | 1703.8 | 2886.2 | 1776.7 | 603.8  | 310.8  | 249.7  | 246.6  |
| 72.5° | 137.1  | 138.2  | 150.5  | 214.7  | 592.0  | 1752.3 | 617.2  | 221.7  | 153.6  | 136.3  | 138.6  |
| 75°   | 87.0   | 86.3   | 107.1  | 131.2  | 209.9  | 591.2  | 220.2  | 131.2  | 106.7  | 97.3   | 98.1   |
| 77.5° | 62.6   | 64.6   | 76.8   | 98.1   | 132.3  | 200.5  | 130.0  | 93.7   | 76.8   | 63.0   | 64.2   |
| 80°   | 46.9   | 48.1   | 55.9   | 76.4   | 93.0   | 124.9  | 82.7   | 69.3   | 57.9   | 39.4   | 40.6   |
| 82.5° | 33.9   | 33.9   | 36.6   | 55.5   | 56.7   | 67.3   | 44.9   | 48.8   | 38.2   | 28.0   | 28.0   |
| 85°   | 20.1   | 19.7   | 22.8   | 33.1   | 29.5   | 24.8   | 20.5   | 29.9   | 24.0   | 17.3   | 16.9   |
| 87.5° | 7.1    | 7.5    | 7.1    | 9.5    | 7.9    | 6.7    | 6.3    | 8.3    | 6.7    | 5.9    | 5.5    |
| 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)