

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: P939063

Luminaire Tested: **GALN-SB1C-727-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P939063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-727-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6874 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

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

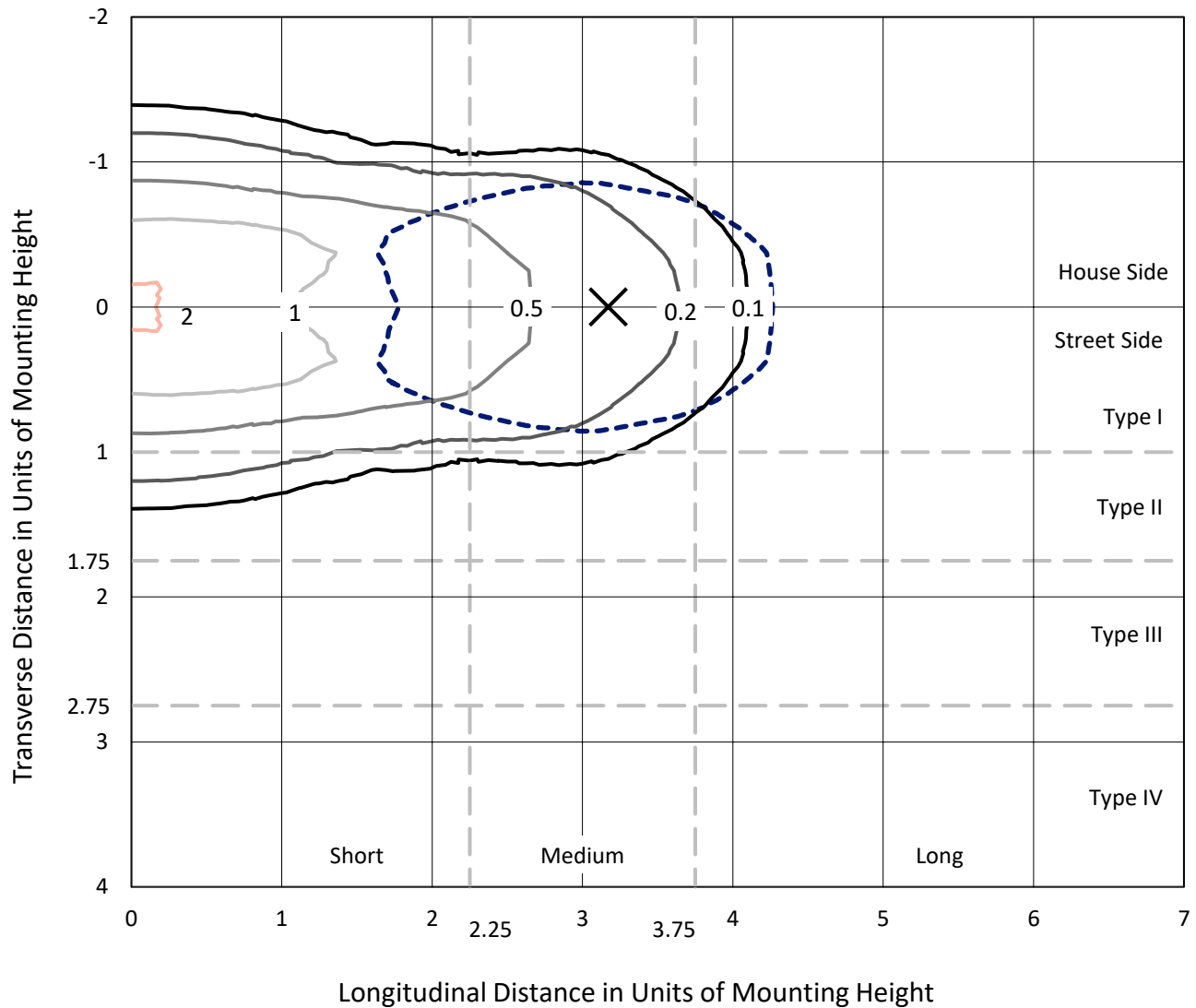


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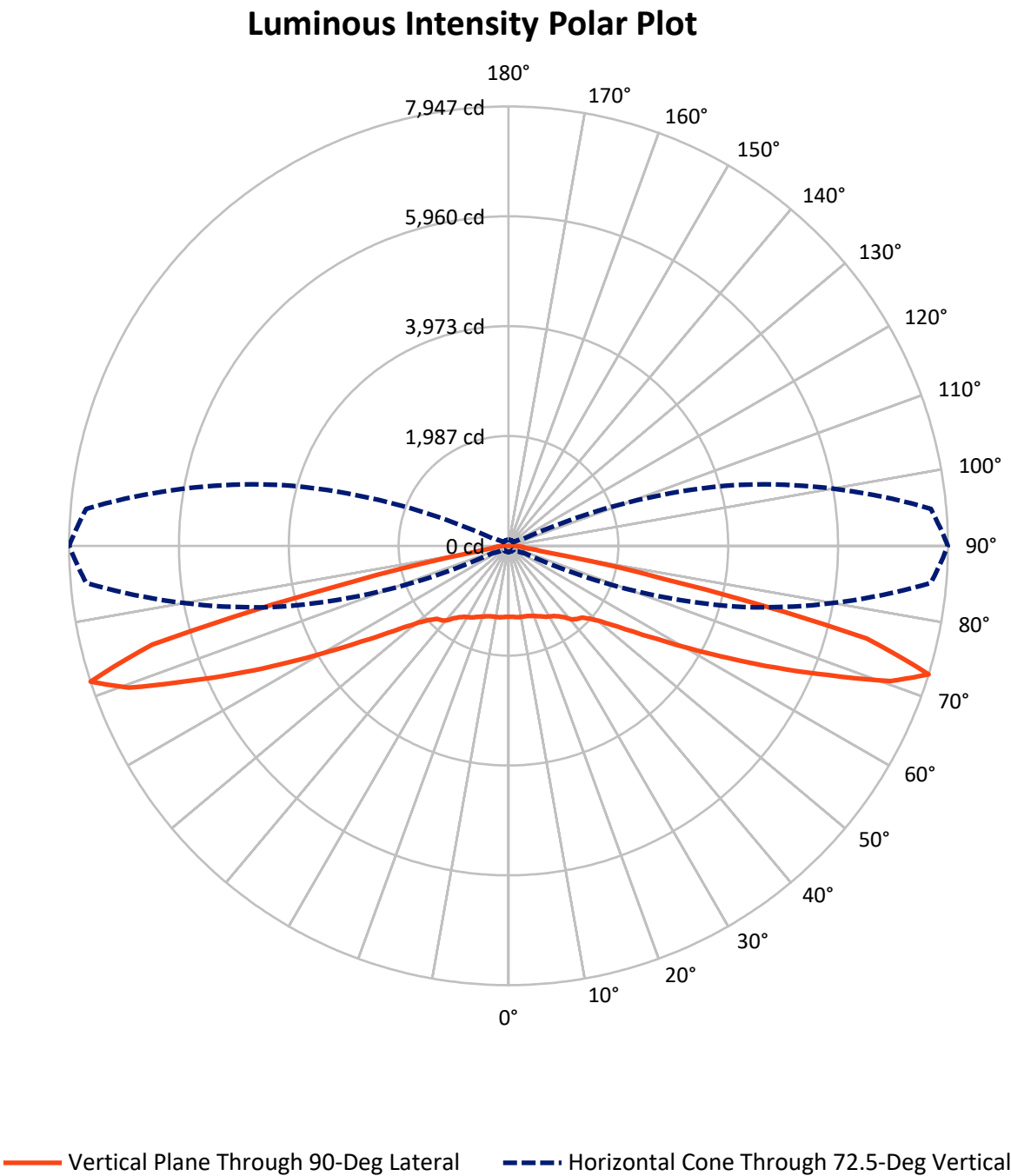
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
Type I - Short - N/A

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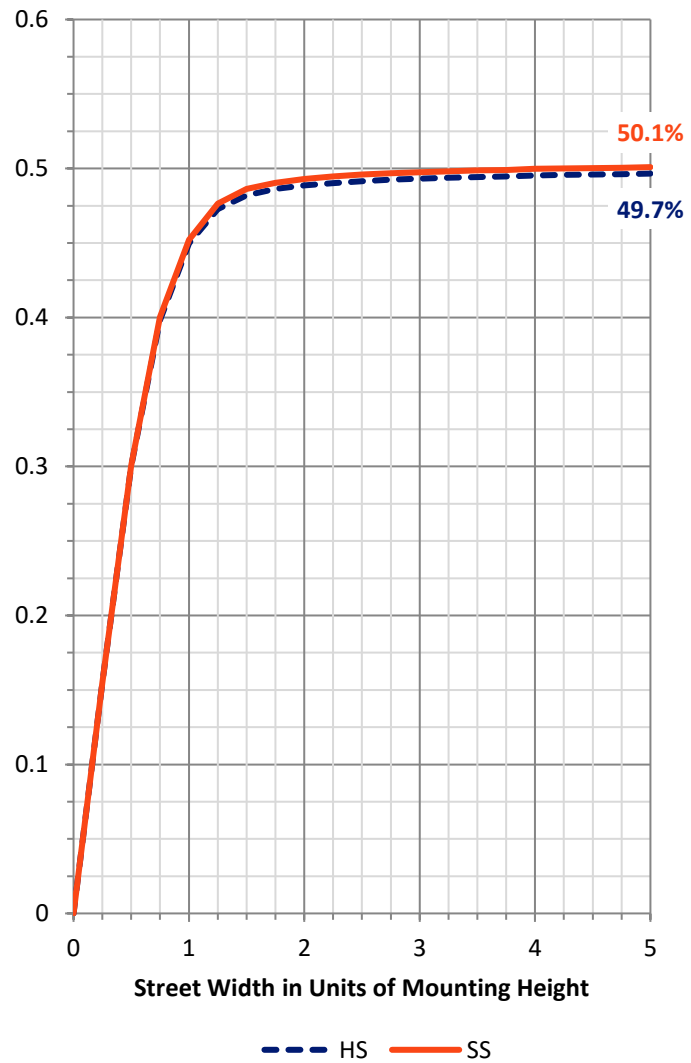
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3437.0   | 0.0    | 3437.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3437.0   | 0.0    | 3437.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6874.0   | 0.0    | 6874.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.5  | 1.8       |
| 10°-20°   | 380.8  | 5.5       |
| 20°-30°   | 635.0  | 9.2       |
| 30°-40°   | 873.3  | 12.7      |
| 40°-50°   | 1066.5 | 15.5      |
| 50°-60°   | 1233.5 | 17.9      |
| 60°-70°   | 1470.8 | 21.4      |
| 70°-80°   | 1026.5 | 14.9      |
| 80°-90°   | 63.1   | 0.9       |
| 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°    | 6874.0 | 100.0     |
| 0°-180°   | 6874.0 | 100.0     |

**Coefficient of Utilization**



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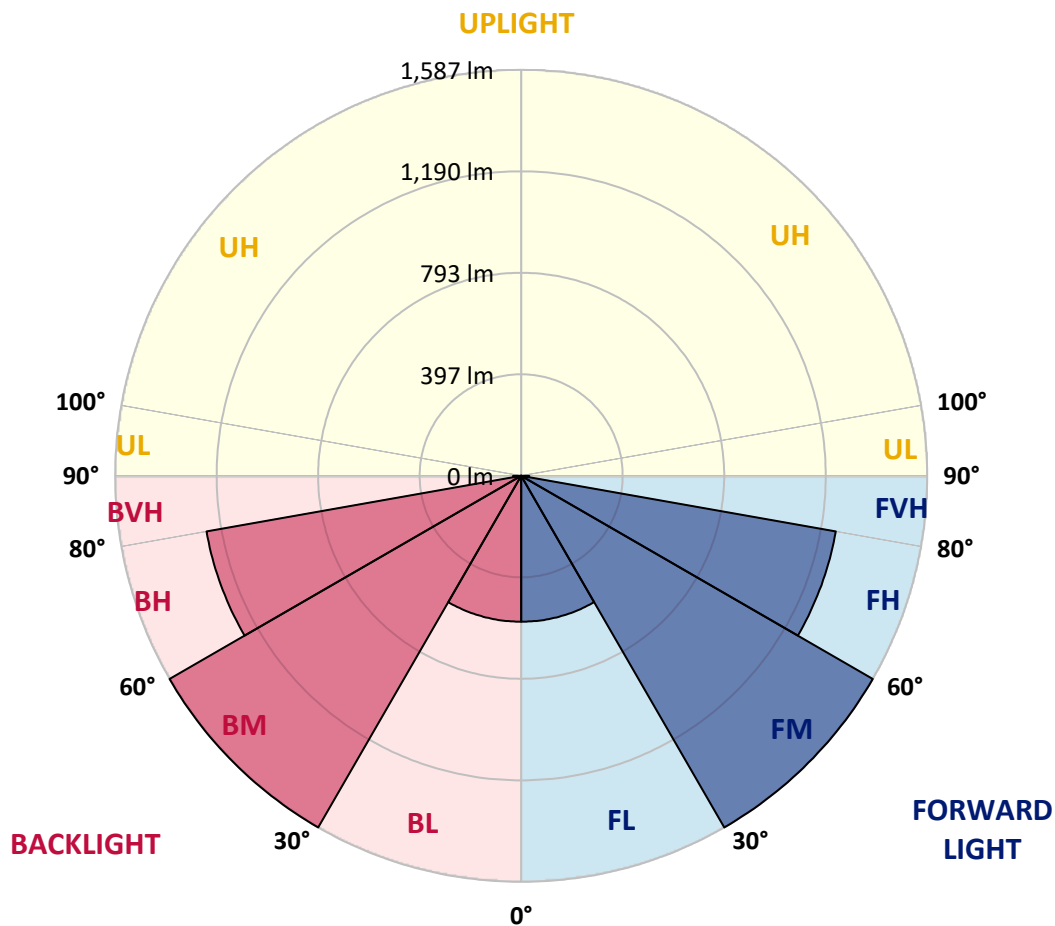
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 570.2  | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 1586.7 | 23.1      |                         |      |         |
| FH   | (60°-80°)   | 1248.7 | 18.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 31.5   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 570.2  | 8.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1586.7 | 23.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1248.7 | 18.2      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 31.5   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1284.5 | 1284.5 | 1284.5 | 1284.5 | 1284.5 | 1284.5 | 1284.5 | 1284.5 | 1284.5 | 1284.5 | 1284.5 |
| 2.5°  | 1285.6 | 1287.0 | 1287.0 | 1285.9 | 1288.5 | 1286.3 | 1286.3 | 1285.2 | 1286.3 | 1285.2 | 1285.2 |
| 5°    | 1292.2 | 1294.0 | 1294.7 | 1294.3 | 1297.6 | 1295.8 | 1295.8 | 1294.3 | 1294.7 | 1293.6 | 1293.6 |
| 7.5°  | 1304.6 | 1307.1 | 1308.6 | 1310.4 | 1315.2 | 1313.0 | 1311.5 | 1307.1 | 1305.3 | 1302.4 | 1302.4 |
| 10°   | 1308.6 | 1311.5 | 1316.3 | 1325.8 | 1336.7 | 1337.1 | 1332.7 | 1321.7 | 1313.3 | 1306.8 | 1305.7 |
| 12.5° | 1296.2 | 1300.2 | 1310.1 | 1329.4 | 1353.9 | 1363.8 | 1356.8 | 1338.5 | 1322.1 | 1310.4 | 1308.6 |
| 15°   | 1280.5 | 1284.8 | 1299.8 | 1329.0 | 1365.2 | 1388.2 | 1387.5 | 1363.4 | 1337.1 | 1318.8 | 1315.9 |
| 17.5° | 1256.0 | 1260.4 | 1281.9 | 1322.8 | 1374.0 | 1412.0 | 1422.2 | 1397.4 | 1360.5 | 1336.0 | 1332.0 |
| 20°   | 1211.8 | 1215.8 | 1245.8 | 1303.1 | 1376.9 | 1437.2 | 1463.9 | 1441.9 | 1395.9 | 1362.7 | 1356.4 |
| 22.5° | 1154.4 | 1160.6 | 1195.7 | 1269.1 | 1370.0 | 1463.5 | 1511.3 | 1496.4 | 1437.2 | 1391.2 | 1382.8 |
| 25°   | 1093.0 | 1099.6 | 1140.5 | 1227.5 | 1352.1 | 1482.5 | 1567.6 | 1558.1 | 1483.9 | 1426.6 | 1414.9 |
| 27.5° | 1040.1 | 1047.0 | 1091.6 | 1186.2 | 1324.3 | 1489.8 | 1623.1 | 1627.9 | 1540.6 | 1465.7 | 1453.3 |
| 30°   | 998.4  | 1005.0 | 1052.5 | 1153.0 | 1288.5 | 1482.5 | 1671.7 | 1704.6 | 1598.3 | 1499.7 | 1481.8 |
| 32.5° | 952.8  | 961.2  | 1011.2 | 1112.4 | 1246.1 | 1464.9 | 1714.1 | 1787.5 | 1665.1 | 1536.2 | 1513.5 |
| 35°   | 895.0  | 902.7  | 955.3  | 1056.9 | 1190.6 | 1436.8 | 1749.5 | 1879.6 | 1760.9 | 1591.7 | 1566.5 |
| 37.5° | 824.9  | 832.2  | 884.4  | 987.5  | 1135.4 | 1397.4 | 1776.6 | 1983.3 | 1874.8 | 1671.7 | 1638.1 |
| 40°   | 754.4  | 761.3  | 810.3  | 910.0  | 1069.3 | 1346.9 | 1786.1 | 2084.9 | 2005.6 | 1781.7 | 1745.9 |
| 42.5° | 689.7  | 695.9  | 740.9  | 833.7  | 995.1  | 1282.7 | 1773.6 | 2173.3 | 2122.9 | 1858.4 | 1812.4 |
| 45°   | 630.2  | 635.7  | 675.5  | 762.1  | 918.1  | 1204.5 | 1736.4 | 2268.3 | 2262.5 | 1913.2 | 1851.1 |
| 47.5° | 562.2  | 567.7  | 609.0  | 692.7  | 841.0  | 1112.8 | 1673.2 | 2361.8 | 2456.4 | 2037.4 | 1965.8 |
| 50°   | 479.3  | 484.1  | 526.4  | 612.6  | 761.0  | 1015.2 | 1585.5 | 2435.3 | 2701.2 | 2225.6 | 2135.7 |
| 52.5° | 381.0  | 386.1  | 427.4  | 513.6  | 666.0  | 910.4  | 1470.1 | 2483.1 | 2984.0 | 2500.3 | 2389.6 |
| 55°   | 283.5  | 287.1  | 322.9  | 400.4  | 548.4  | 790.9  | 1325.4 | 2496.6 | 3304.7 | 2875.8 | 2737.4 |
| 57.5° | 205.7  | 207.9  | 230.9  | 288.6  | 415.7  | 641.5  | 1149.7 | 2461.6 | 3686.5 | 3357.3 | 3183.1 |
| 60°   | 166.6  | 167.3  | 174.3  | 199.8  | 289.0  | 472.7  | 937.4  | 2341.0 | 4100.8 | 3978.0 | 3758.5 |
| 62.5° | 151.2  | 151.2  | 153.1  | 160.0  | 195.4  | 312.0  | 680.6  | 2091.1 | 4545.0 | 4762.4 | 4468.3 |
| 65°   | 140.6  | 140.6  | 141.4  | 144.7  | 154.2  | 198.7  | 429.6  | 1684.1 | 4919.5 | 5681.2 | 5309.3 |
| 67.5° | 131.2  | 131.5  | 131.2  | 132.2  | 137.7  | 146.9  | 249.2  | 1163.2 | 5121.1 | 6633.2 | 6231.7 |
| 70°   | 121.3  | 122.0  | 120.2  | 120.2  | 124.6  | 124.9  | 156.0  | 637.9  | 4953.8 | 7431.1 | 7325.5 |
| 72.5° | 109.6  | 110.7  | 107.8  | 107.0  | 110.3  | 108.9  | 117.3  | 306.1  | 4253.1 | 7669.2 | 7946.9 |
| 75°   | 99.4   | 100.8  | 94.3   | 92.4   | 92.4   | 91.3   | 95.3   | 157.1  | 2760.4 | 6256.2 | 6691.6 |
| 77.5° | 90.2   | 93.2   | 82.6   | 76.7   | 75.3   | 72.0   | 77.8   | 96.1   | 1207.4 | 2937.2 | 2876.2 |
| 80°   | 74.5   | 78.5   | 68.0   | 61.0   | 58.5   | 54.8   | 61.4   | 67.2   | 359.1  | 682.1  | 653.2  |
| 82.5° | 55.5   | 57.4   | 48.2   | 43.5   | 41.3   | 38.7   | 46.0   | 46.8   | 116.9  | 241.5  | 272.9  |
| 85°   | 35.4   | 36.2   | 29.6   | 25.6   | 24.5   | 23.4   | 29.2   | 25.6   | 44.6   | 177.5  | 257.9  |
| 87.5° | 12.4   | 14.2   | 11.3   | 10.2   | 11.0   | 9.1    | 13.5   | 7.7    | 12.4   | 125.3  | 155.3  |
| 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)