

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: P939103

Luminaire Tested: **GALN-SB1C-750-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939103  
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-750-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7841 lumens  
Efficiency: N/A  
Efficacy: 144.1 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

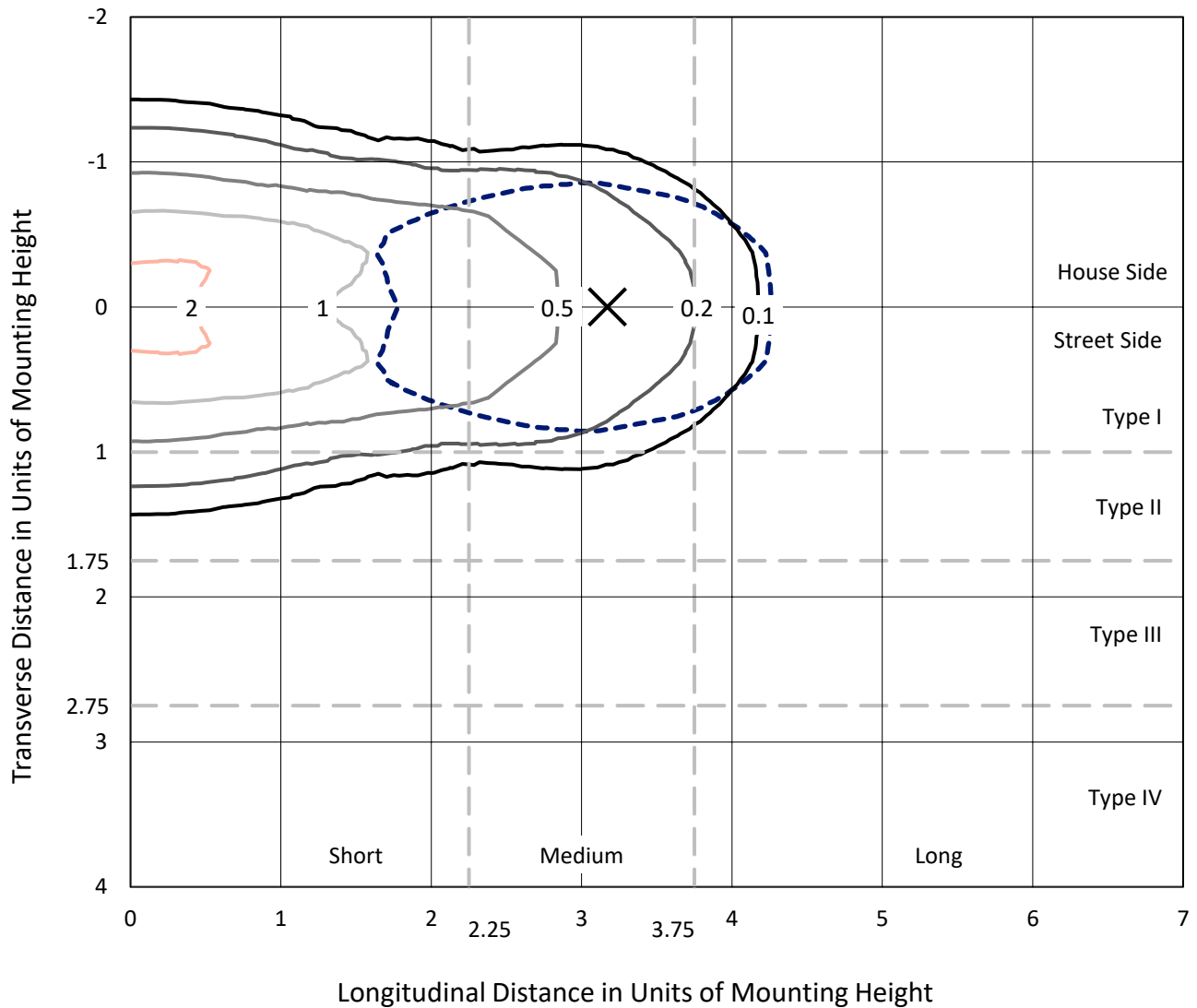
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

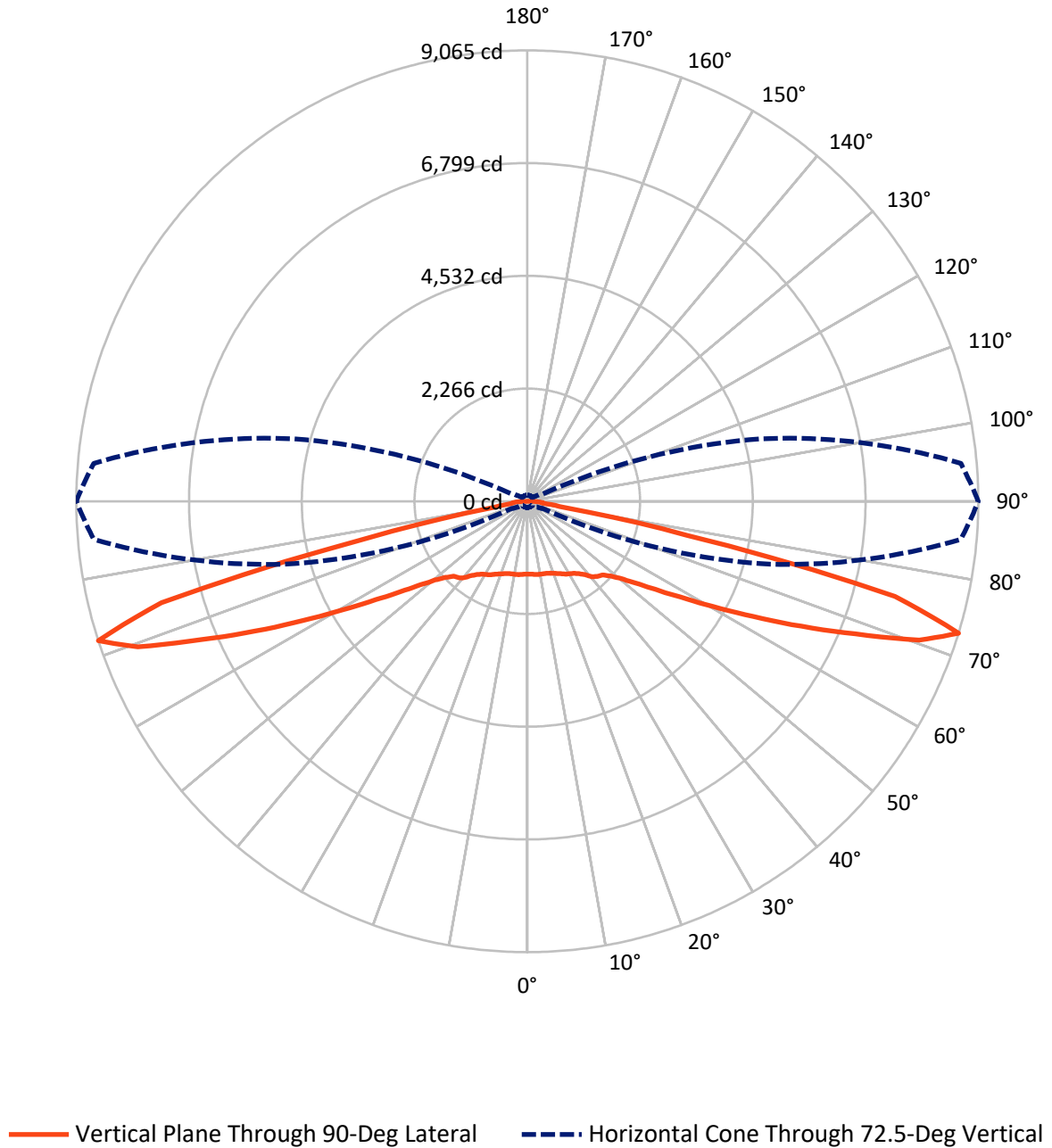
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type I - 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    | 3920.5   | 0.0    | 3920.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3920.5   | 0.0    | 3920.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7841.0   | 0.0    | 7841.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.1  | 1.8       |
| 10°-20°   | 434.4  | 5.5       |
| 20°-30°   | 724.3  | 9.2       |
| 30°-40°   | 996.1  | 12.7      |
| 40°-50°   | 1216.5 | 15.5      |
| 50°-60°   | 1407.1 | 17.9      |
| 60°-70°   | 1677.7 | 21.4      |
| 70°-80°   | 1170.9 | 14.9      |
| 80°-90°   | 71.9   | 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°    | 7841.0 | 100.0     |
| 0°-180°   | 7841.0 | 100.0     |

**Coefficient of Utilization**



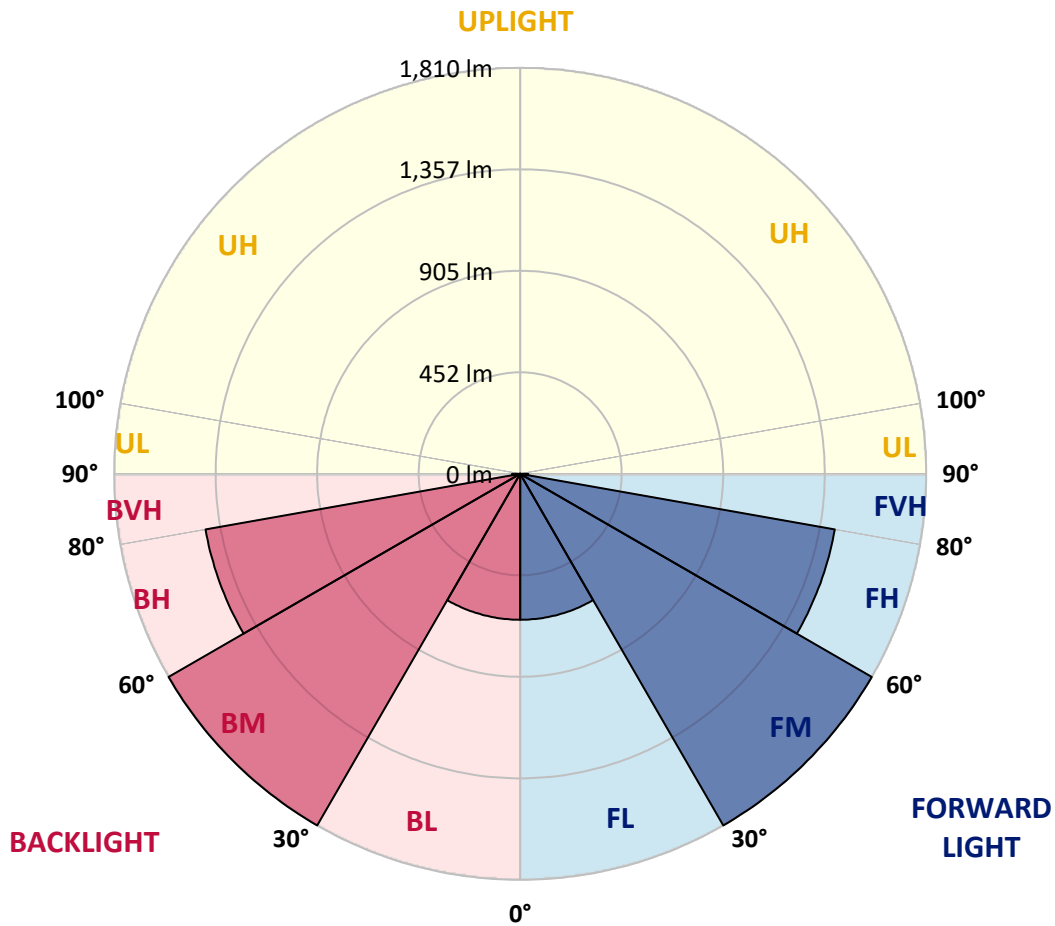
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 650.4  | 8.3       |                         |      |         |
| FM (30°-60°)   | 1809.9 | 23.1      |                         |      |         |
| FH (60°-80°)   | 1424.3 | 18.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 36.0   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 650.4  | 8.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1809.9 | 23.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1424.3 | 18.2      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 36.0   | 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°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1465.2 | 1465.2 | 1465.2 | 1465.2 | 1465.2 | 1465.2 | 1465.2 | 1465.2 | 1465.2 | 1465.2 |
| 2.5°  | 1466.4 | 1468.1 | 1468.1 | 1466.8 | 1469.8 | 1467.3 | 1467.3 | 1466.0 | 1467.3 | 1466.0 |
| 5°    | 1473.9 | 1476.0 | 1476.8 | 1476.4 | 1480.2 | 1478.1 | 1478.1 | 1476.4 | 1476.8 | 1475.6 |
| 7.5°  | 1488.1 | 1491.0 | 1492.7 | 1494.8 | 1500.2 | 1497.7 | 1496.0 | 1491.0 | 1488.9 | 1485.6 |
| 10°   | 1492.7 | 1496.0 | 1501.4 | 1512.3 | 1524.8 | 1525.2 | 1520.2 | 1507.7 | 1498.1 | 1490.6 |
| 12.5° | 1478.5 | 1483.1 | 1494.3 | 1516.4 | 1544.3 | 1555.6 | 1547.7 | 1526.8 | 1508.1 | 1494.8 |
| 15°   | 1460.6 | 1465.6 | 1482.7 | 1516.0 | 1557.3 | 1583.5 | 1582.7 | 1555.2 | 1525.2 | 1504.3 |
| 17.5° | 1432.7 | 1437.7 | 1462.3 | 1508.9 | 1567.3 | 1610.6 | 1622.3 | 1593.9 | 1551.9 | 1523.9 |
| 20°   | 1382.2 | 1386.8 | 1421.0 | 1486.4 | 1570.6 | 1639.4 | 1669.8 | 1644.8 | 1592.3 | 1554.4 |
| 22.5° | 1316.8 | 1323.9 | 1363.9 | 1447.7 | 1562.7 | 1669.4 | 1724.0 | 1706.9 | 1639.4 | 1586.9 |
| 25°   | 1246.8 | 1254.3 | 1301.0 | 1400.2 | 1542.3 | 1691.0 | 1788.1 | 1777.3 | 1692.7 | 1627.3 |
| 27.5° | 1186.4 | 1194.3 | 1245.1 | 1353.1 | 1510.6 | 1699.4 | 1851.5 | 1856.9 | 1757.3 | 1671.9 |
| 30°   | 1138.9 | 1146.4 | 1200.6 | 1315.2 | 1469.8 | 1691.0 | 1906.9 | 1944.4 | 1823.1 | 1710.6 |
| 32.5° | 1086.8 | 1096.4 | 1153.5 | 1268.9 | 1421.4 | 1671.0 | 1955.2 | 2039.0 | 1899.4 | 1752.3 |
| 35°   | 1021.0 | 1029.7 | 1089.7 | 1205.6 | 1358.1 | 1638.9 | 1995.7 | 2144.0 | 2008.6 | 1815.6 |
| 37.5° | 940.9  | 949.3  | 1008.9 | 1126.4 | 1295.2 | 1593.9 | 2026.5 | 2262.4 | 2138.6 | 1906.9 |
| 40°   | 860.5  | 868.4  | 924.3  | 1038.0 | 1219.7 | 1536.4 | 2037.3 | 2378.2 | 2287.8 | 2032.3 |
| 42.5° | 786.8  | 793.8  | 845.1  | 950.9  | 1135.1 | 1463.1 | 2023.2 | 2479.0 | 2421.5 | 2119.8 |
| 45°   | 718.8  | 725.1  | 770.5  | 869.3  | 1047.2 | 1373.9 | 1980.7 | 2587.4 | 2580.7 | 2182.3 |
| 47.5° | 641.3  | 647.6  | 694.7  | 790.1  | 959.3  | 1269.3 | 1908.6 | 2694.1 | 2802.0 | 2324.0 |
| 50°   | 546.7  | 552.1  | 600.5  | 698.8  | 868.0  | 1158.1 | 1808.5 | 2777.8 | 3081.2 | 2538.6 |
| 52.5° | 434.6  | 440.5  | 487.6  | 585.9  | 759.7  | 1038.5 | 1676.9 | 2832.4 | 3403.7 | 2852.0 |
| 55°   | 323.4  | 327.5  | 368.4  | 456.7  | 625.5  | 902.2  | 1511.8 | 2847.8 | 3769.6 | 3280.4 |
| 57.5° | 234.6  | 237.1  | 263.4  | 329.2  | 474.2  | 731.8  | 1311.4 | 2807.8 | 4205.1 | 3829.6 |
| 60°   | 190.0  | 190.9  | 198.8  | 227.9  | 329.6  | 539.2  | 1069.3 | 2670.3 | 4677.6 | 4537.6 |
| 62.5° | 172.5  | 172.5  | 174.6  | 182.5  | 222.9  | 355.9  | 776.3  | 2385.3 | 5184.4 | 5432.3 |
| 65°   | 160.4  | 160.4  | 161.3  | 165.0  | 175.9  | 226.7  | 490.1  | 1921.1 | 5611.5 | 6480.4 |
| 67.5° | 149.6  | 150.0  | 149.6  | 150.9  | 157.1  | 167.5  | 284.2  | 1326.8 | 5841.5 | 7566.3 |
| 70°   | 138.3  | 139.2  | 137.1  | 137.1  | 142.1  | 142.5  | 177.9  | 727.6  | 5650.7 | 8476.4 |
| 72.5° | 125.0  | 126.3  | 122.9  | 122.1  | 125.8  | 124.2  | 133.8  | 349.2  | 4851.4 | 8748.1 |
| 75°   | 113.3  | 115.0  | 107.5  | 105.4  | 105.4  | 104.2  | 108.8  | 179.2  | 3148.7 | 7136.3 |
| 77.5° | 102.9  | 106.3  | 94.2   | 87.5   | 85.8   | 82.1   | 88.8   | 109.6  | 1377.2 | 3350.4 |
| 80°   | 85.0   | 89.6   | 77.5   | 69.6   | 66.7   | 62.5   | 70.0   | 76.7   | 409.6  | 778.0  |
| 82.5° | 63.3   | 65.4   | 55.0   | 49.6   | 47.1   | 44.2   | 52.5   | 53.3   | 133.3  | 275.4  |
| 85°   | 40.4   | 41.3   | 33.8   | 29.2   | 27.9   | 26.7   | 33.3   | 29.2   | 50.8   | 202.5  |
| 87.5° | 14.2   | 16.3   | 12.9   | 11.7   | 12.5   | 10.4   | 15.4   | 8.8    | 14.2   | 142.9  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END C

90°

1465.2  
1466.0  
1475.6  
1485.6  
1489.3  
1492.7  
1501.0  
1519.3  
1547.3  
1577.3  
1613.9  
1657.7  
1690.2  
1726.5  
1786.9  
1868.6  
1991.5  
2067.3  
2111.5  
2242.3  
2436.1  
2725.7  
3122.5  
3630.8  
4287.2  
5096.9  
6056.1  
7108.3  
8356.0  
9064.8  
7633.0  
3280.8  
745.1  
311.3  
294.2  
177.1  
0.0

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