

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: P939333

Luminaire Tested: **GALN-SB1D-850-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939333  
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-SB1D-850-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9632 lumens  
Efficiency: N/A  
Efficacy: 121.0 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

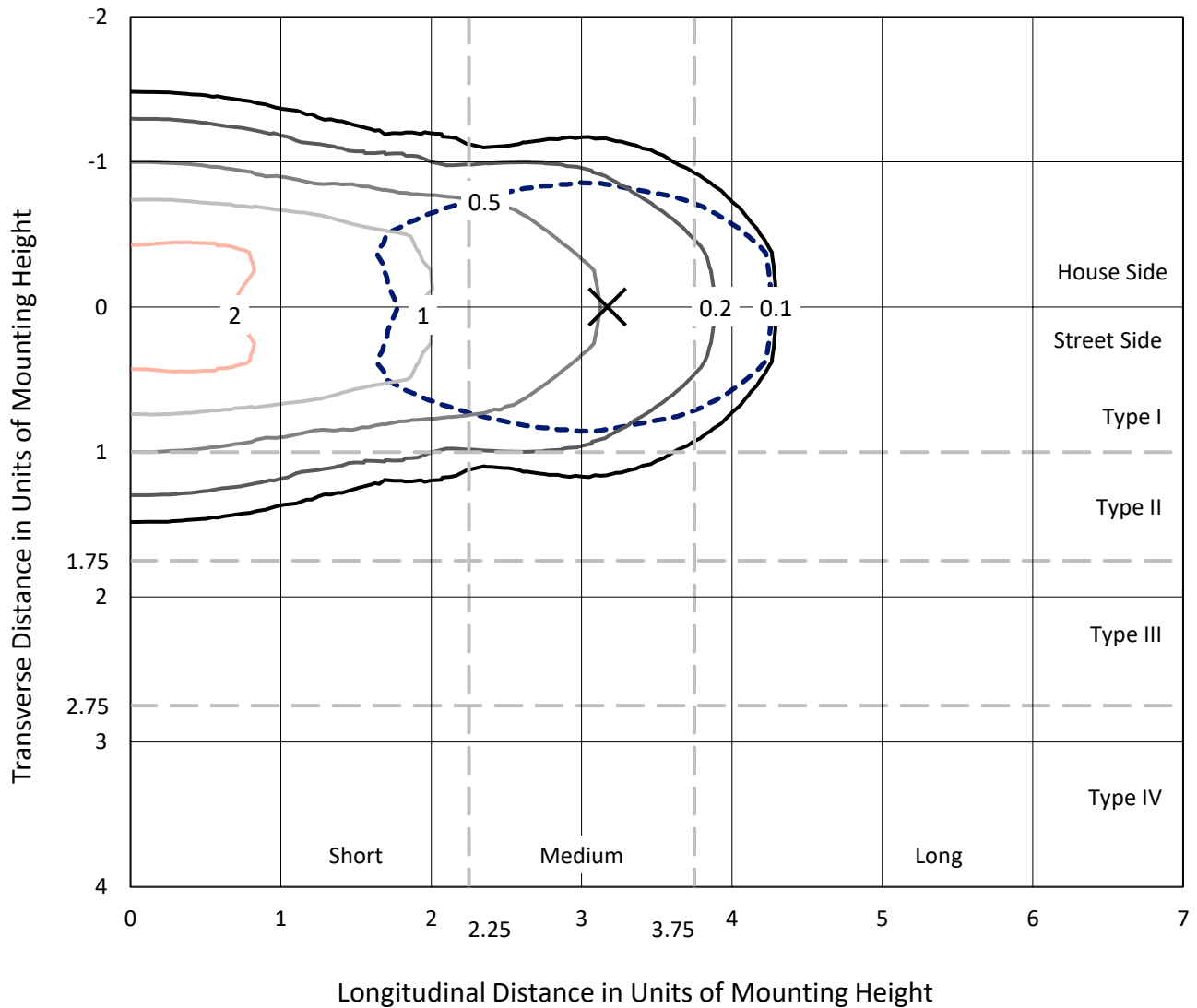
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

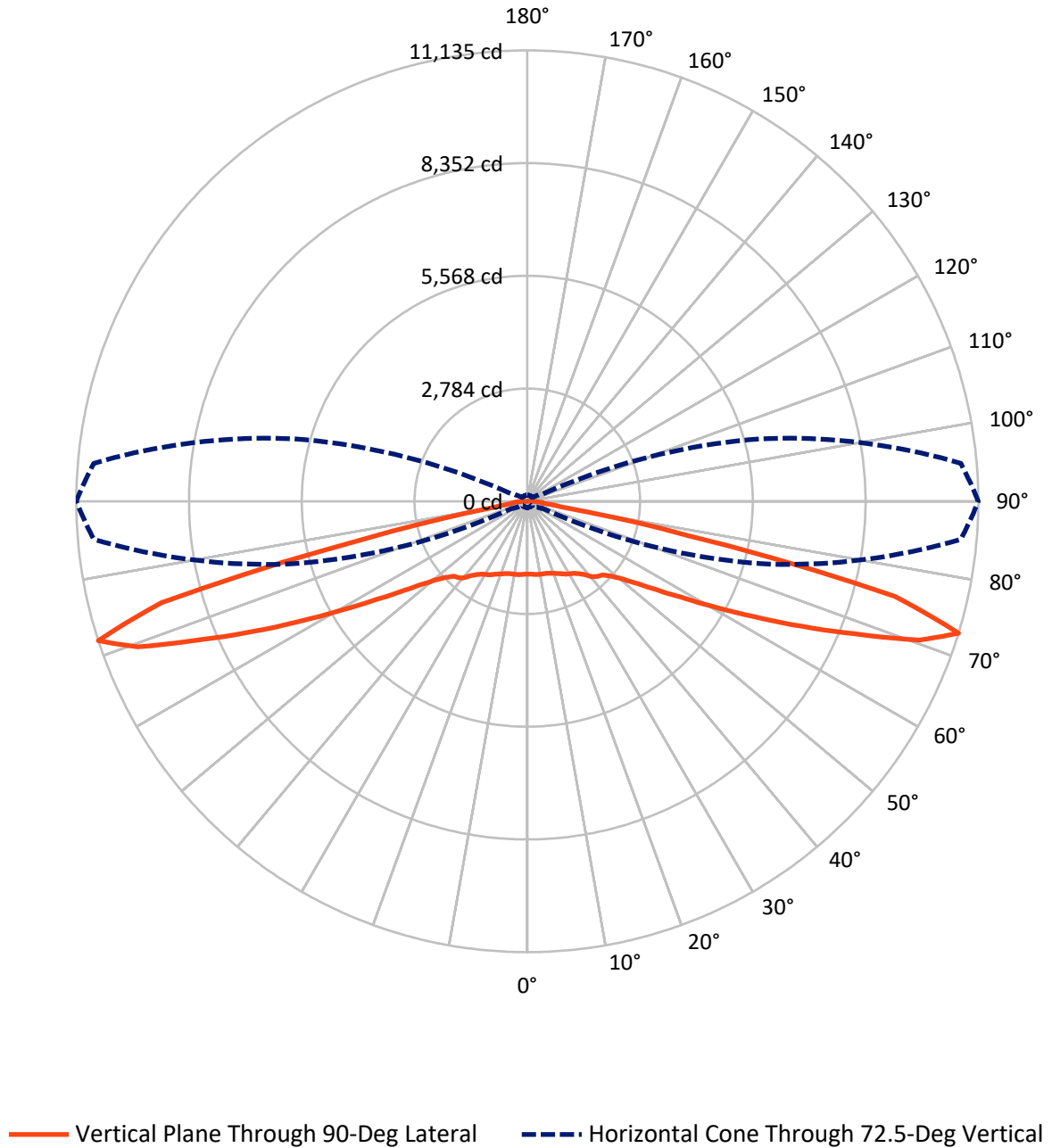
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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    | 4816.0   | 0.0    | 4816.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4816.0   | 0.0    | 4816.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9632.0   | 0.0    | 9632.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 174.5  | 1.8       |
| 10°-20°   | 533.6  | 5.5       |
| 20°-30°   | 889.7  | 9.2       |
| 30°-40°   | 1223.7 | 12.7      |
| 40°-50°   | 1494.4 | 15.5      |
| 50°-60°   | 1728.5 | 17.9      |
| 60°-70°   | 2060.9 | 21.4      |
| 70°-80°   | 1438.4 | 14.9      |
| 80°-90°   | 88.4   | 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°    | 9632.0 | 100.0     |
| 0°-180°   | 9632.0 | 100.0     |

**Coefficient of Utilization**



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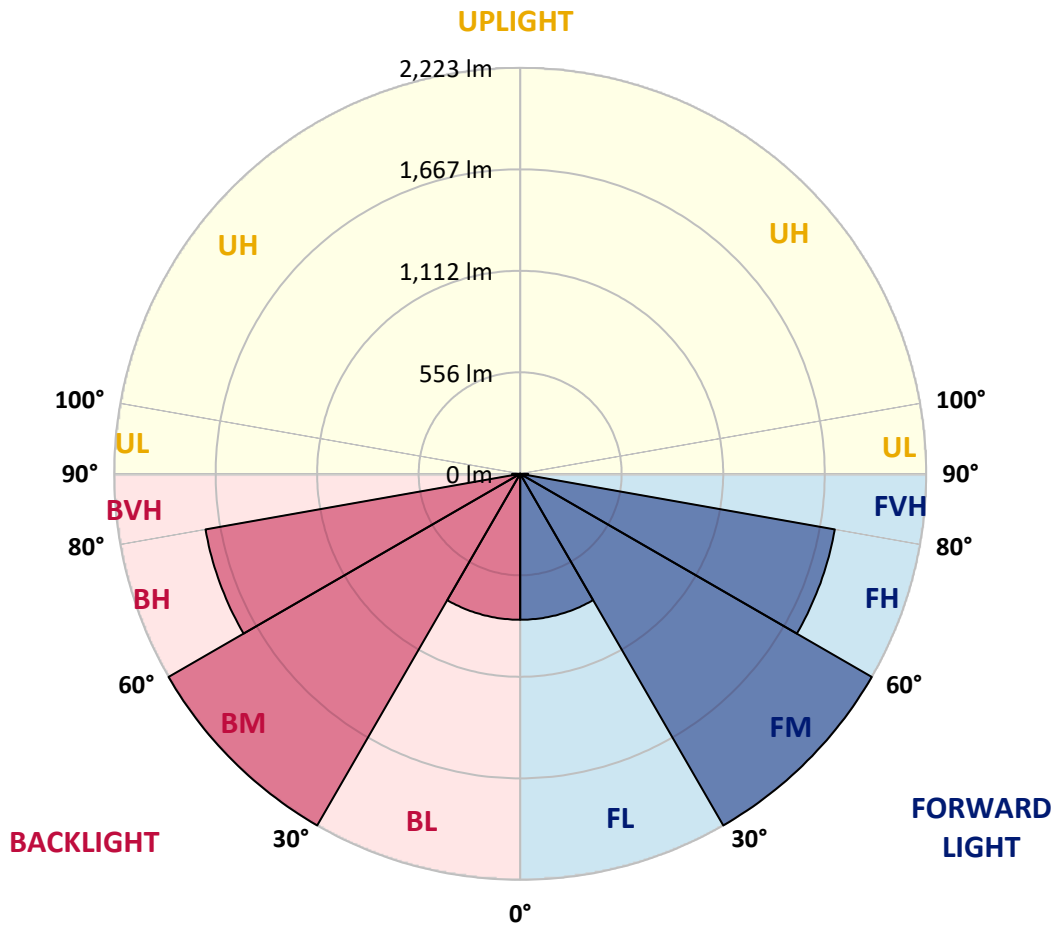
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 798.9  | 8.3       |                         |      |         |
| FM (30°-60°)   | 2223.3 | 23.1      |                         |      |         |
| FH (60°-80°)   | 1749.6 | 18.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 44.2   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 798.9  | 8.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 2223.3 | 23.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1749.6 | 18.2      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 44.2   | 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°    | 1799.8 | 1799.8 | 1799.8 | 1799.8 | 1799.8 | 1799.8 | 1799.8 | 1799.8 | 1799.8 | 1799.8  |
| 2.5°  | 1801.4 | 1803.4 | 1803.4 | 1801.9 | 1805.5 | 1802.4 | 1802.4 | 1800.9 | 1802.4 | 1800.9  |
| 5°    | 1810.6 | 1813.2 | 1814.2 | 1813.7 | 1818.3 | 1815.7 | 1815.7 | 1813.7 | 1814.2 | 1812.6  |
| 7.5°  | 1828.0 | 1831.6 | 1833.6 | 1836.2 | 1842.8 | 1839.8 | 1837.7 | 1831.6 | 1829.0 | 1824.9  |
| 10°   | 1833.6 | 1837.7 | 1844.4 | 1857.7 | 1873.0 | 1873.6 | 1867.4 | 1852.1 | 1840.3 | 1831.1  |
| 12.5° | 1816.2 | 1821.9 | 1835.7 | 1862.8 | 1897.1 | 1910.9 | 1901.2 | 1875.6 | 1852.6 | 1836.2  |
| 15°   | 1794.2 | 1800.4 | 1821.3 | 1862.3 | 1913.0 | 1945.2 | 1944.2 | 1910.4 | 1873.6 | 1848.0  |
| 17.5° | 1759.9 | 1766.1 | 1796.3 | 1853.6 | 1925.3 | 1978.5 | 1992.8 | 1958.0 | 1906.3 | 1872.0  |
| 20°   | 1698.0 | 1703.6 | 1745.6 | 1825.9 | 1929.4 | 2013.8 | 2051.2 | 2020.5 | 1956.0 | 1909.4  |
| 22.5° | 1617.6 | 1626.3 | 1675.4 | 1778.3 | 1919.6 | 2050.7 | 2117.7 | 2096.7 | 2013.8 | 1949.3  |
| 25°   | 1531.6 | 1540.8 | 1598.2 | 1720.0 | 1894.5 | 2077.3 | 2196.6 | 2183.3 | 2079.3 | 1999.0  |
| 27.5° | 1457.4 | 1467.1 | 1529.6 | 1662.1 | 1855.6 | 2087.5 | 2274.4 | 2281.0 | 2158.7 | 2053.7  |
| 30°   | 1399.0 | 1408.2 | 1474.8 | 1615.6 | 1805.5 | 2077.3 | 2342.5 | 2388.5 | 2239.6 | 2101.4  |
| 32.5° | 1335.0 | 1346.8 | 1416.9 | 1558.7 | 1746.1 | 2052.7 | 2401.8 | 2504.7 | 2333.2 | 2152.5  |
| 35°   | 1254.2 | 1264.9 | 1338.6 | 1480.9 | 1668.3 | 2013.3 | 2451.5 | 2633.7 | 2467.4 | 2230.3  |
| 37.5° | 1155.9 | 1166.1 | 1239.3 | 1383.7 | 1591.0 | 1958.0 | 2489.4 | 2779.1 | 2627.1 | 2342.5  |
| 40°   | 1057.1 | 1066.8 | 1135.4 | 1275.1 | 1498.3 | 1887.4 | 2502.7 | 2921.4 | 2810.3 | 2496.5  |
| 42.5° | 966.5  | 975.2  | 1038.1 | 1168.2 | 1394.4 | 1797.3 | 2485.3 | 3045.3 | 2974.7 | 2604.0  |
| 45°   | 883.0  | 890.7  | 946.5  | 1067.8 | 1286.4 | 1687.7 | 2433.1 | 3178.4 | 3170.2 | 2680.8  |
| 47.5° | 787.8  | 795.5  | 853.3  | 970.6  | 1178.4 | 1559.2 | 2344.5 | 3309.4 | 3442.0 | 2854.9  |
| 50°   | 671.6  | 678.3  | 737.6  | 858.5  | 1066.3 | 1422.6 | 2221.6 | 3412.3 | 3785.0 | 3118.5  |
| 52.5° | 533.9  | 541.1  | 598.9  | 719.7  | 933.2  | 1275.7 | 2059.9 | 3479.4 | 4181.2 | 3503.4  |
| 55°   | 397.2  | 402.4  | 452.5  | 561.0  | 768.4  | 1108.3 | 1857.2 | 3498.3 | 4630.6 | 4029.7  |
| 57.5° | 288.2  | 291.3  | 323.5  | 404.4  | 582.5  | 898.9  | 1610.9 | 3449.2 | 5165.6 | 4704.4  |
| 60°   | 233.4  | 234.5  | 244.2  | 280.0  | 404.9  | 662.4  | 1313.5 | 3280.3 | 5746.1 | 5574.1  |
| 62.5° | 211.9  | 211.9  | 214.5  | 224.2  | 273.9  | 437.2  | 953.7  | 2930.1 | 6368.5 | 6673.1  |
| 65°   | 197.1  | 197.1  | 198.1  | 202.7  | 216.0  | 278.5  | 602.0  | 2359.9 | 6893.2 | 7960.6  |
| 67.5° | 183.8  | 184.3  | 183.8  | 185.3  | 193.0  | 205.8  | 349.1  | 1629.9 | 7175.8 | 9294.6  |
| 70°   | 170.0  | 171.0  | 168.4  | 168.4  | 174.6  | 175.1  | 218.6  | 893.8  | 6941.4 | 10412.6 |
| 72.5° | 153.6  | 155.1  | 151.0  | 150.0  | 154.6  | 152.5  | 164.3  | 429.0  | 5959.5 | 10746.3 |
| 75°   | 139.2  | 141.3  | 132.1  | 129.5  | 129.5  | 128.0  | 133.6  | 220.1  | 3867.9 | 8766.3  |
| 77.5° | 126.4  | 130.5  | 115.7  | 107.5  | 105.5  | 100.8  | 109.0  | 134.6  | 1691.8 | 4115.7  |
| 80°   | 104.4  | 110.1  | 95.2   | 85.5   | 81.9   | 76.8   | 86.0   | 94.2   | 503.2  | 955.7   |
| 82.5° | 77.8   | 80.4   | 67.6   | 60.9   | 57.8   | 54.3   | 64.5   | 65.5   | 163.8  | 338.4   |
| 85°   | 49.7   | 50.7   | 41.5   | 35.8   | 34.3   | 32.8   | 41.0   | 35.8   | 62.5   | 248.8   |
| 87.5° | 17.4   | 20.0   | 15.9   | 14.3   | 15.4   | 12.8   | 18.9   | 10.7   | 17.4   | 175.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     |

(END C

90°

1799.8  
1800.9  
1812.6  
1824.9  
1829.5  
1833.6  
1843.9  
1866.4  
1900.7  
1937.5  
1982.6  
2036.3  
2076.3  
2120.8  
2195.0  
2295.4  
2446.4  
2539.5  
2593.8  
2754.5  
2992.6  
3348.3  
3835.7  
4460.2  
5266.4  
6261.1  
7439.4  
8732.0  
10264.6  
11135.4  
9376.5  
4030.2  
915.3  
382.4  
361.4  
217.6  
0.0

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