

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: P939443

Luminaire Tested: **GALN-SB2A-750-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939443
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-SB2A-750-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9389 lumens
Efficiency: N/A
Efficacy: 163.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

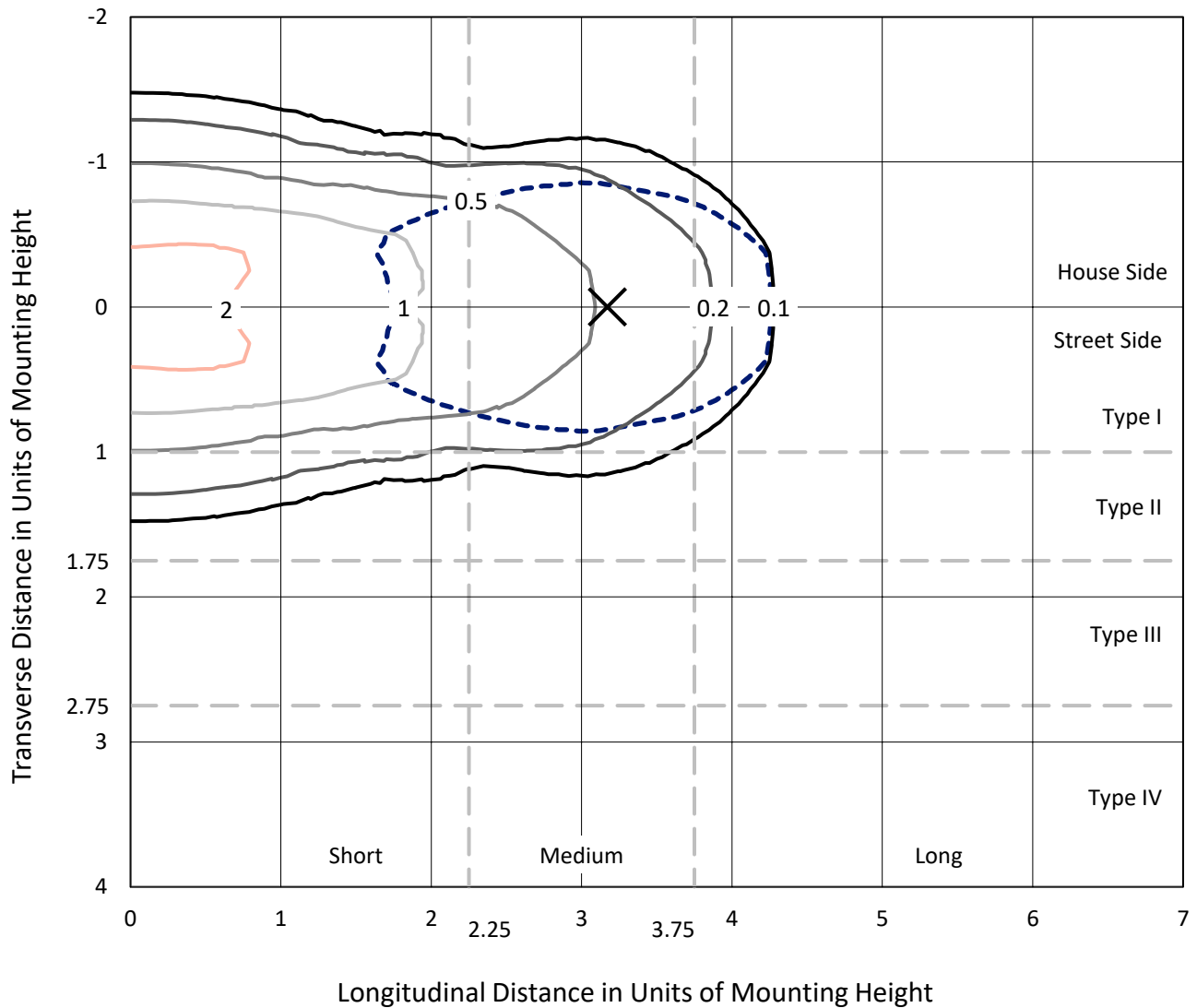
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

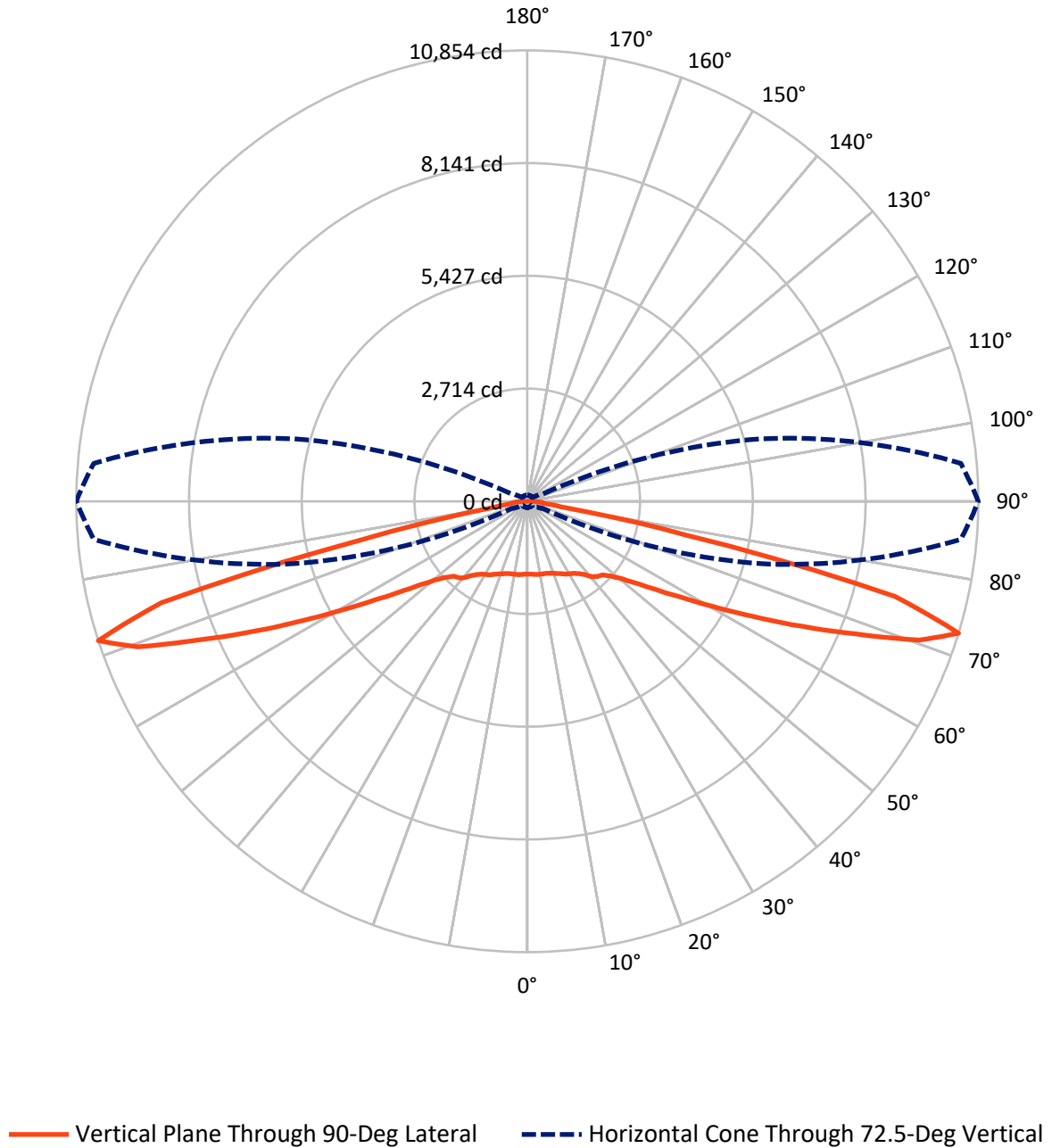
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4694.5 | 0.0 | 4694.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4694.5 | 0.0 | 4694.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9389.0 | 0.0 | 9389.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 170.1 | 1.8 |
| 10°-20° | 520.1 | 5.5 |
| 20°-30° | 867.3 | 9.2 |
| 30°-40° | 1192.8 | 12.7 |
| 40°-50° | 1456.7 | 15.5 |
| 50°-60° | 1684.9 | 17.9 |
| 60°-70° | 2008.9 | 21.4 |
| 70°-80° | 1402.1 | 14.9 |
| 80°-90° | 86.1 | 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° | 9389.0 | 100.0 |
| 0°-180° | 9389.0 | 100.0 |

Coefficient of Utilization



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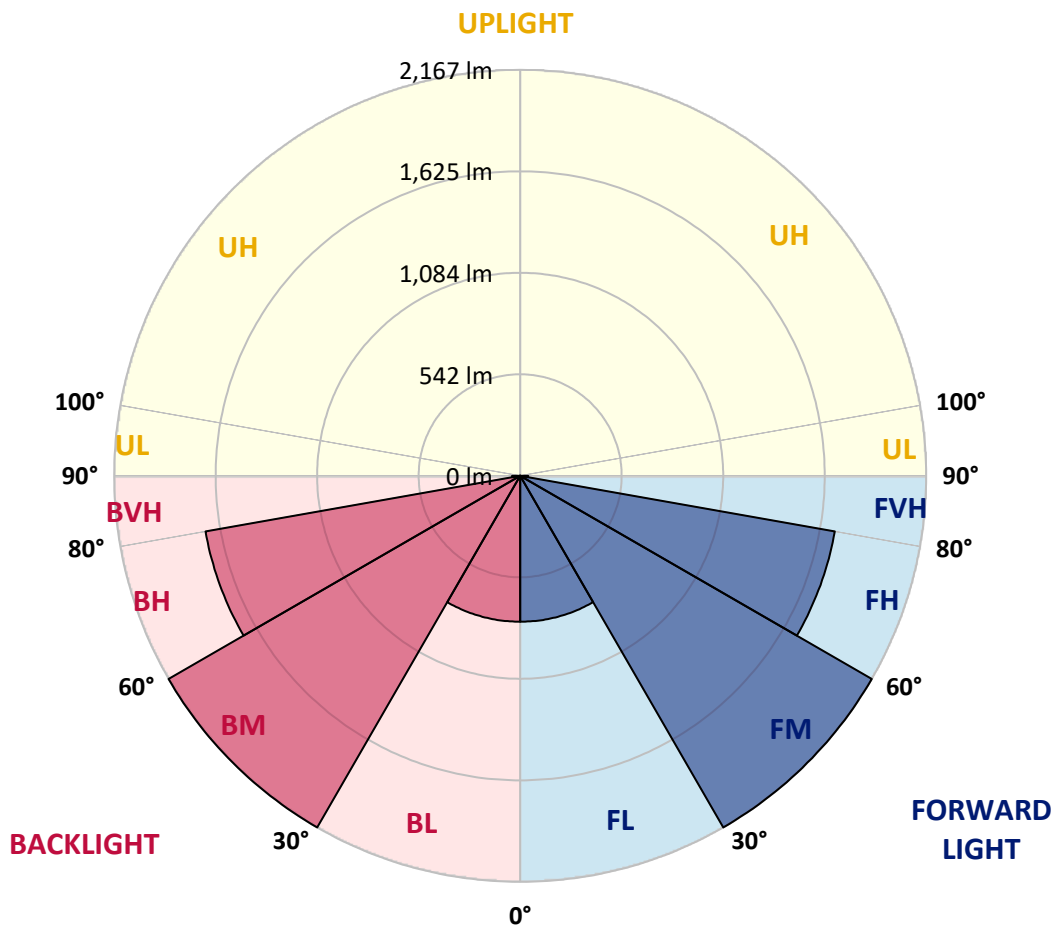
CATALOG NUMBER: GALN-SB2A-750-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 778.8 | 8.3 | | | |
| FM (30°-60°) | 2167.2 | 23.1 | | | |
| FH (60°-80°) | 1705.5 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 43.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 778.8 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 2167.2 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1705.5 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 43.1 | 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° | 1754.4 | 1754.4 | 1754.4 | 1754.4 | 1754.4 | 1754.4 | 1754.4 | 1754.4 | 1754.4 | 1754.4 |
| 2.5° | 1755.9 | 1757.9 | 1757.9 | 1756.4 | 1759.9 | 1756.9 | 1756.9 | 1755.4 | 1756.9 | 1755.4 |
| 5° | 1764.9 | 1767.4 | 1768.4 | 1767.9 | 1772.4 | 1769.9 | 1769.9 | 1767.9 | 1768.4 | 1766.9 |
| 7.5° | 1781.9 | 1785.4 | 1787.4 | 1789.9 | 1796.3 | 1793.4 | 1791.4 | 1785.4 | 1782.9 | 1778.9 |
| 10° | 1787.4 | 1791.4 | 1797.8 | 1810.8 | 1825.8 | 1826.3 | 1820.3 | 1805.3 | 1793.9 | 1784.9 |
| 12.5° | 1770.4 | 1775.9 | 1789.4 | 1815.8 | 1849.2 | 1862.7 | 1853.2 | 1828.3 | 1805.8 | 1789.9 |
| 15° | 1748.9 | 1754.9 | 1775.4 | 1815.3 | 1864.7 | 1896.1 | 1895.1 | 1862.2 | 1826.3 | 1801.3 |
| 17.5° | 1715.5 | 1721.5 | 1750.9 | 1806.8 | 1876.7 | 1928.6 | 1942.6 | 1908.6 | 1858.2 | 1824.8 |
| 20° | 1655.1 | 1660.6 | 1701.5 | 1779.9 | 1880.7 | 1963.0 | 1999.4 | 1969.5 | 1906.6 | 1861.2 |
| 22.5° | 1576.8 | 1585.3 | 1633.2 | 1733.5 | 1871.2 | 1998.9 | 2064.3 | 2043.8 | 1963.0 | 1900.1 |
| 25° | 1493.0 | 1501.9 | 1557.8 | 1676.6 | 1846.7 | 2024.9 | 2141.1 | 2128.2 | 2026.9 | 1948.5 |
| 27.5° | 1420.6 | 1430.1 | 1491.0 | 1620.2 | 1808.8 | 2034.9 | 2217.0 | 2223.5 | 2104.2 | 2001.9 |
| 30° | 1363.7 | 1372.7 | 1437.6 | 1574.8 | 1759.9 | 2024.9 | 2283.4 | 2328.3 | 2183.1 | 2048.3 |
| 32.5° | 1301.4 | 1312.8 | 1381.2 | 1519.4 | 1702.0 | 2000.9 | 2341.2 | 2441.5 | 2274.4 | 2098.2 |
| 35° | 1222.5 | 1233.0 | 1304.8 | 1443.6 | 1626.2 | 1962.5 | 2389.6 | 2567.3 | 2405.1 | 2174.1 |
| 37.5° | 1126.7 | 1136.7 | 1208.0 | 1348.8 | 1550.8 | 1908.6 | 2426.6 | 2709.0 | 2560.8 | 2283.4 |
| 40° | 1030.4 | 1039.9 | 1106.8 | 1243.0 | 1460.5 | 1839.8 | 2439.5 | 2847.7 | 2739.4 | 2433.6 |
| 42.5° | 942.1 | 950.6 | 1011.9 | 1138.7 | 1359.2 | 1751.9 | 2422.6 | 2968.5 | 2899.6 | 2538.3 |
| 45° | 860.8 | 868.2 | 922.6 | 1040.9 | 1254.0 | 1645.2 | 2371.7 | 3098.2 | 3090.2 | 2613.2 |
| 47.5° | 767.9 | 775.4 | 831.8 | 946.1 | 1148.7 | 1519.9 | 2285.4 | 3225.9 | 3355.2 | 2782.8 |
| 50° | 654.7 | 661.2 | 719.0 | 836.8 | 1039.4 | 1386.7 | 2165.6 | 3326.2 | 3689.5 | 3039.8 |
| 52.5° | 520.4 | 527.4 | 583.8 | 701.6 | 909.7 | 1243.5 | 2007.9 | 3391.6 | 4075.7 | 3415.1 |
| 55° | 387.2 | 392.2 | 441.1 | 546.9 | 749.0 | 1080.3 | 1810.3 | 3410.1 | 4513.8 | 3928.0 |
| 57.5° | 280.9 | 283.9 | 315.4 | 394.2 | 567.8 | 876.2 | 1570.3 | 3362.2 | 5035.3 | 4585.7 |
| 60° | 227.5 | 228.5 | 238.0 | 272.9 | 394.7 | 645.7 | 1280.4 | 3197.5 | 5601.1 | 5433.5 |
| 62.5° | 206.6 | 206.6 | 209.1 | 218.6 | 267.0 | 426.1 | 929.6 | 2856.2 | 6207.9 | 6504.8 |
| 65° | 192.1 | 192.1 | 193.1 | 197.6 | 210.6 | 271.4 | 586.8 | 2300.3 | 6719.3 | 7759.7 |
| 67.5° | 179.1 | 179.6 | 179.1 | 180.6 | 188.1 | 200.6 | 340.3 | 1588.8 | 6994.8 | 9060.1 |
| 70° | 165.7 | 166.7 | 164.2 | 164.2 | 170.2 | 170.7 | 213.1 | 871.2 | 6766.2 | 10149.9 |
| 72.5° | 149.7 | 151.2 | 147.2 | 146.2 | 150.7 | 148.7 | 160.2 | 418.2 | 5809.2 | 10475.2 |
| 75° | 135.7 | 137.7 | 128.7 | 126.2 | 126.2 | 124.7 | 130.2 | 214.6 | 3770.3 | 8545.1 |
| 77.5° | 123.2 | 127.2 | 112.8 | 104.8 | 102.8 | 98.3 | 106.3 | 131.2 | 1649.1 | 4011.8 |
| 80° | 101.8 | 107.3 | 92.8 | 83.3 | 79.8 | 74.8 | 83.8 | 91.8 | 490.5 | 931.6 |
| 82.5° | 75.8 | 78.3 | 65.9 | 59.4 | 56.4 | 52.9 | 62.9 | 63.9 | 159.7 | 329.8 |
| 85° | 48.4 | 49.4 | 40.4 | 34.9 | 33.4 | 31.9 | 39.9 | 34.9 | 60.9 | 242.5 |
| 87.5° | 17.0 | 19.5 | 15.5 | 14.0 | 15.0 | 12.5 | 18.5 | 10.5 | 17.0 | 171.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

1754.4
1755.4
1766.9
1778.9
1783.4
1787.4
1797.3
1819.3
1852.7
1888.7
1932.6
1985.0
2023.9
2067.3
2139.7
2237.5
2384.7
2475.5
2528.4
2685.0
2917.1
3263.9
3738.9
4347.7
5133.6
6103.1
7251.8
8511.7
10005.7
10854.4
9139.9
3928.5
892.2
372.7
352.3
212.1
0.0

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