

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: P939423

Luminaire Tested: **GALN-SB2A-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939423
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-735-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8874 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

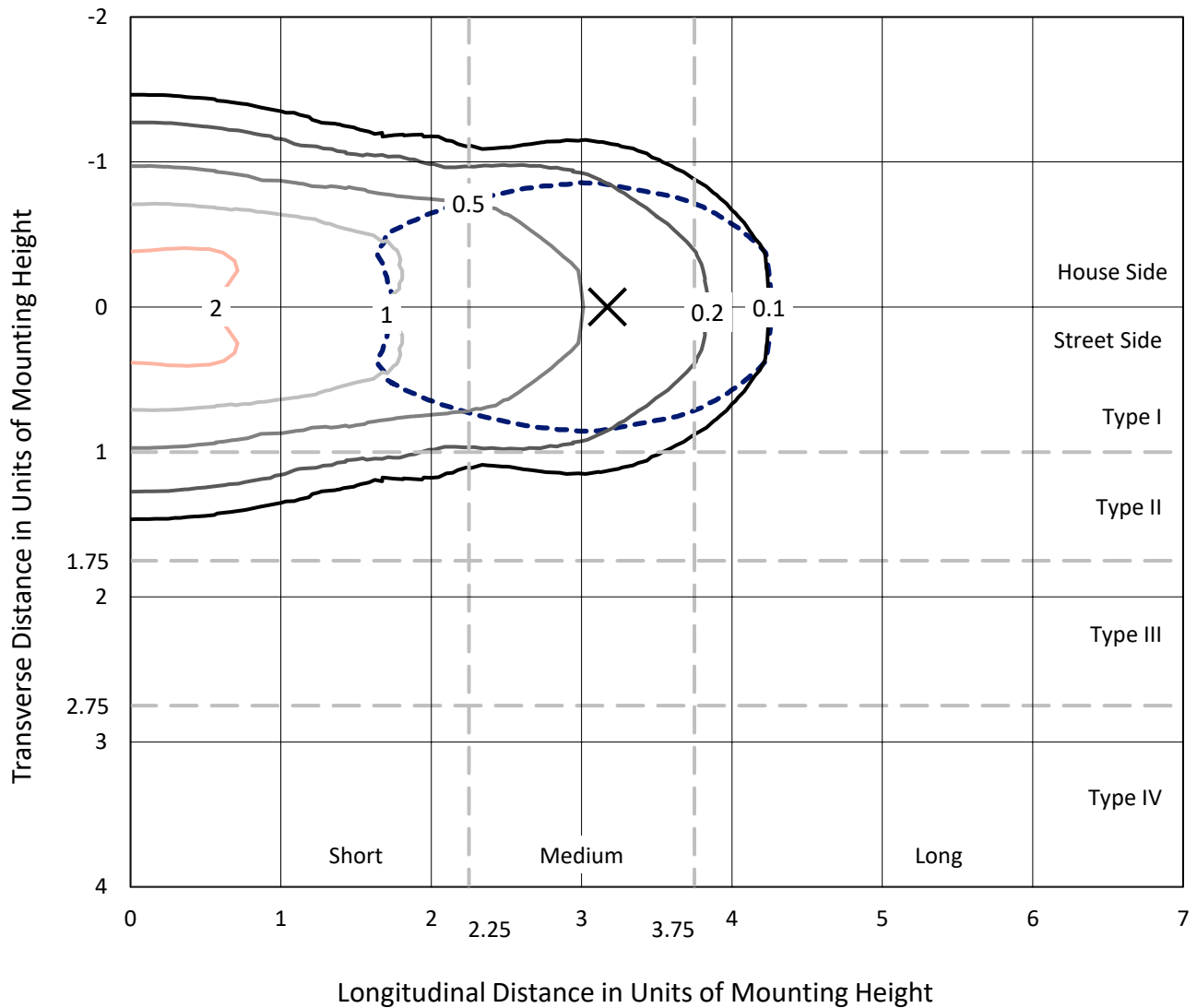
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

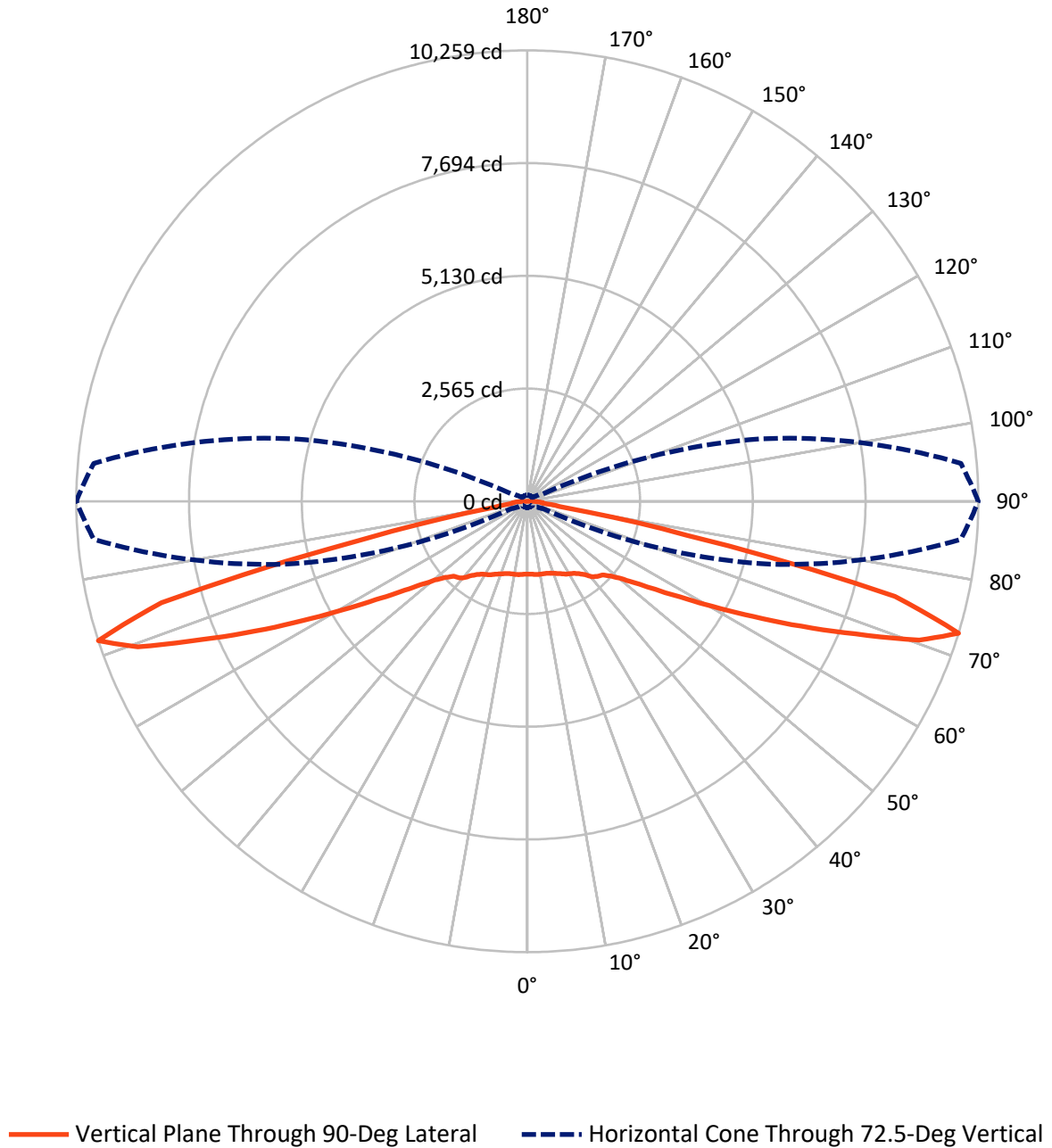
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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 | 4437.0 | 0.0 | 4437.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4437.0 | 0.0 | 4437.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8874.0 | 0.0 | 8874.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 160.8 | 1.8 |
| 10°-20° | 491.6 | 5.5 |
| 20°-30° | 819.7 | 9.2 |
| 30°-40° | 1127.4 | 12.7 |
| 40°-50° | 1376.8 | 15.5 |
| 50°-60° | 1592.4 | 17.9 |
| 60°-70° | 1898.7 | 21.4 |
| 70°-80° | 1325.2 | 14.9 |
| 80°-90° | 81.4 | 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° | 8874.0 | 100.0 |
| 0°-180° | 8874.0 | 100.0 |

Coefficient of Utilization



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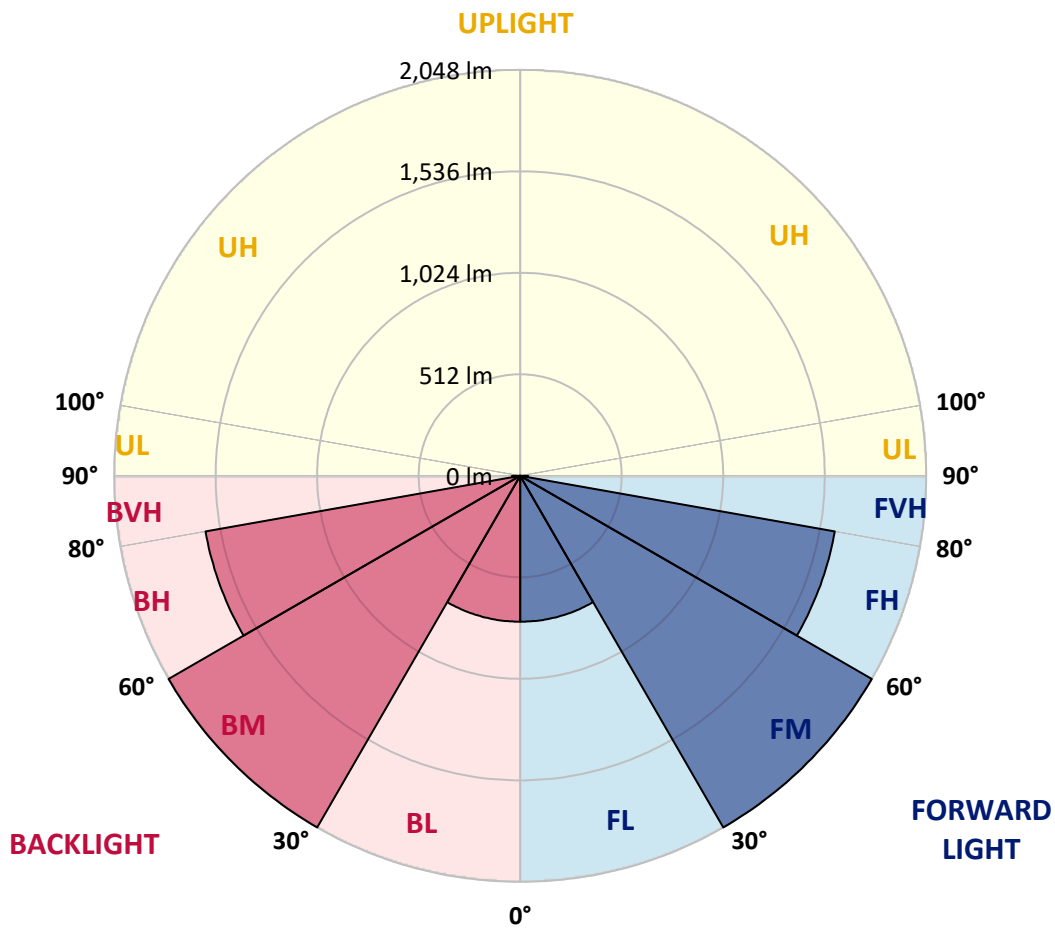
CATALOG NUMBER: GALN-SB2A-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 736.1 | 8.3 | | | |
| FM (30°-60°) | 2048.3 | 23.1 | | | |
| FH (60°-80°) | 1611.9 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 40.7 | 0.5 | | | G1/100 |
| BL (0°-30°) | 736.1 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 2048.3 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1611.9 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 40.7 | 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° | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 |
| 2.5° | 1659.6 | 1661.5 | 1661.5 | 1660.1 | 1663.4 | 1660.6 | 1660.6 | 1659.1 | 1660.6 | 1659.1 |
| 5° | 1668.1 | 1670.5 | 1671.4 | 1670.9 | 1675.2 | 1672.8 | 1672.8 | 1670.9 | 1671.4 | 1670.0 |
| 7.5° | 1684.1 | 1687.4 | 1689.3 | 1691.7 | 1697.8 | 1695.0 | 1693.1 | 1687.4 | 1685.1 | 1681.3 |
| 10° | 1689.3 | 1693.1 | 1699.2 | 1711.5 | 1725.6 | 1726.1 | 1720.5 | 1706.3 | 1695.5 | 1687.0 |
| 12.5° | 1673.3 | 1678.5 | 1691.2 | 1716.2 | 1747.8 | 1760.5 | 1751.6 | 1728.0 | 1706.8 | 1691.7 |
| 15° | 1653.0 | 1658.7 | 1678.0 | 1715.7 | 1762.4 | 1792.1 | 1791.2 | 1760.1 | 1726.1 | 1702.5 |
| 17.5° | 1621.4 | 1627.1 | 1654.9 | 1707.7 | 1773.7 | 1822.8 | 1836.0 | 1803.9 | 1756.3 | 1724.7 |
| 20° | 1564.3 | 1569.5 | 1608.2 | 1682.3 | 1777.5 | 1855.3 | 1889.8 | 1861.5 | 1802.0 | 1759.1 |
| 22.5° | 1490.3 | 1498.3 | 1543.6 | 1638.4 | 1768.6 | 1889.3 | 1951.1 | 1931.7 | 1855.3 | 1795.9 |
| 25° | 1411.1 | 1419.6 | 1472.4 | 1584.6 | 1745.4 | 1913.8 | 2023.7 | 2011.4 | 1915.7 | 1841.7 |
| 27.5° | 1342.7 | 1351.7 | 1409.2 | 1531.3 | 1709.6 | 1923.2 | 2095.4 | 2101.5 | 1988.8 | 1892.1 |
| 30° | 1288.9 | 1297.4 | 1358.7 | 1488.4 | 1663.4 | 1913.8 | 2158.1 | 2200.6 | 2063.3 | 1936.0 |
| 32.5° | 1230.0 | 1240.8 | 1305.4 | 1436.1 | 1608.7 | 1891.2 | 2212.8 | 2307.6 | 2149.6 | 1983.1 |
| 35° | 1155.5 | 1165.4 | 1233.3 | 1364.4 | 1537.0 | 1854.9 | 2258.6 | 2426.5 | 2273.2 | 2054.8 |
| 37.5° | 1064.9 | 1074.3 | 1141.8 | 1274.8 | 1465.8 | 1803.9 | 2293.5 | 2560.4 | 2420.3 | 2158.1 |
| 40° | 973.9 | 982.8 | 1046.0 | 1174.8 | 1380.4 | 1738.8 | 2305.7 | 2691.5 | 2589.2 | 2300.1 |
| 42.5° | 890.4 | 898.4 | 956.4 | 1076.2 | 1284.7 | 1655.8 | 2289.7 | 2805.6 | 2740.6 | 2399.1 |
| 45° | 813.5 | 820.6 | 872.0 | 983.8 | 1185.2 | 1554.9 | 2241.6 | 2928.3 | 2920.7 | 2469.9 |
| 47.5° | 725.8 | 732.9 | 786.2 | 894.2 | 1085.7 | 1436.5 | 2160.0 | 3049.0 | 3171.1 | 2630.2 |
| 50° | 618.8 | 624.9 | 679.6 | 790.9 | 982.4 | 1310.6 | 2046.8 | 3143.8 | 3487.1 | 2873.1 |
| 52.5° | 491.9 | 498.5 | 551.8 | 663.1 | 859.8 | 1175.3 | 1897.8 | 3205.6 | 3852.2 | 3227.7 |
| 55° | 366.0 | 370.7 | 416.9 | 516.9 | 707.9 | 1021.0 | 1711.0 | 3223.0 | 4266.2 | 3712.6 |
| 57.5° | 265.5 | 268.3 | 298.1 | 372.6 | 536.7 | 828.2 | 1484.2 | 3177.7 | 4759.1 | 4334.1 |
| 60° | 215.1 | 216.0 | 225.0 | 258.0 | 373.0 | 610.3 | 1210.2 | 3022.1 | 5293.9 | 5135.4 |
| 62.5° | 195.2 | 195.2 | 197.6 | 206.6 | 252.3 | 402.8 | 878.6 | 2699.5 | 5867.4 | 6148.0 |
| 65° | 181.6 | 181.6 | 182.5 | 186.8 | 199.0 | 256.6 | 554.6 | 2174.1 | 6350.8 | 7334.1 |
| 67.5° | 169.3 | 169.8 | 169.3 | 170.7 | 177.8 | 189.6 | 321.6 | 1501.6 | 6611.1 | 8563.1 |
| 70° | 156.6 | 157.5 | 155.2 | 155.2 | 160.8 | 161.3 | 201.4 | 823.4 | 6395.1 | 9593.1 |
| 72.5° | 141.5 | 142.9 | 139.1 | 138.2 | 142.4 | 140.5 | 151.4 | 395.2 | 5490.5 | 9900.6 |
| 75° | 128.3 | 130.2 | 121.7 | 119.3 | 119.3 | 117.9 | 123.1 | 202.8 | 3563.5 | 8076.4 |
| 77.5° | 116.5 | 120.3 | 106.6 | 99.0 | 97.2 | 92.9 | 100.5 | 124.0 | 1558.7 | 3791.8 |
| 80° | 96.2 | 101.4 | 87.7 | 78.8 | 75.5 | 70.7 | 79.2 | 86.8 | 463.6 | 880.5 |
| 82.5° | 71.7 | 74.0 | 62.3 | 56.1 | 53.3 | 50.0 | 59.4 | 60.4 | 150.9 | 311.7 |
| 85° | 45.7 | 46.7 | 38.2 | 33.0 | 31.6 | 30.2 | 37.7 | 33.0 | 57.5 | 229.2 |
| 87.5° | 16.0 | 18.4 | 14.6 | 13.2 | 14.1 | 11.8 | 17.4 | 9.9 | 16.0 | 161.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

1658.2
1659.1
1670.0
1681.3
1685.6
1689.3
1698.8
1719.5
1751.1
1785.1
1826.6
1876.1
1912.9
1953.9
2022.3
2114.7
2253.9
2339.7
2389.7
2537.8
2757.1
3084.8
3533.8
4109.2
4852.0
5768.3
6854.0
8044.8
9456.8
10259.1
8638.6
3713.0
843.2
352.3
333.0
200.4
0.0

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