

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: P939683

Luminaire Tested: **GALN-SB2B-927-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939683
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-SB2B-927-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6781 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

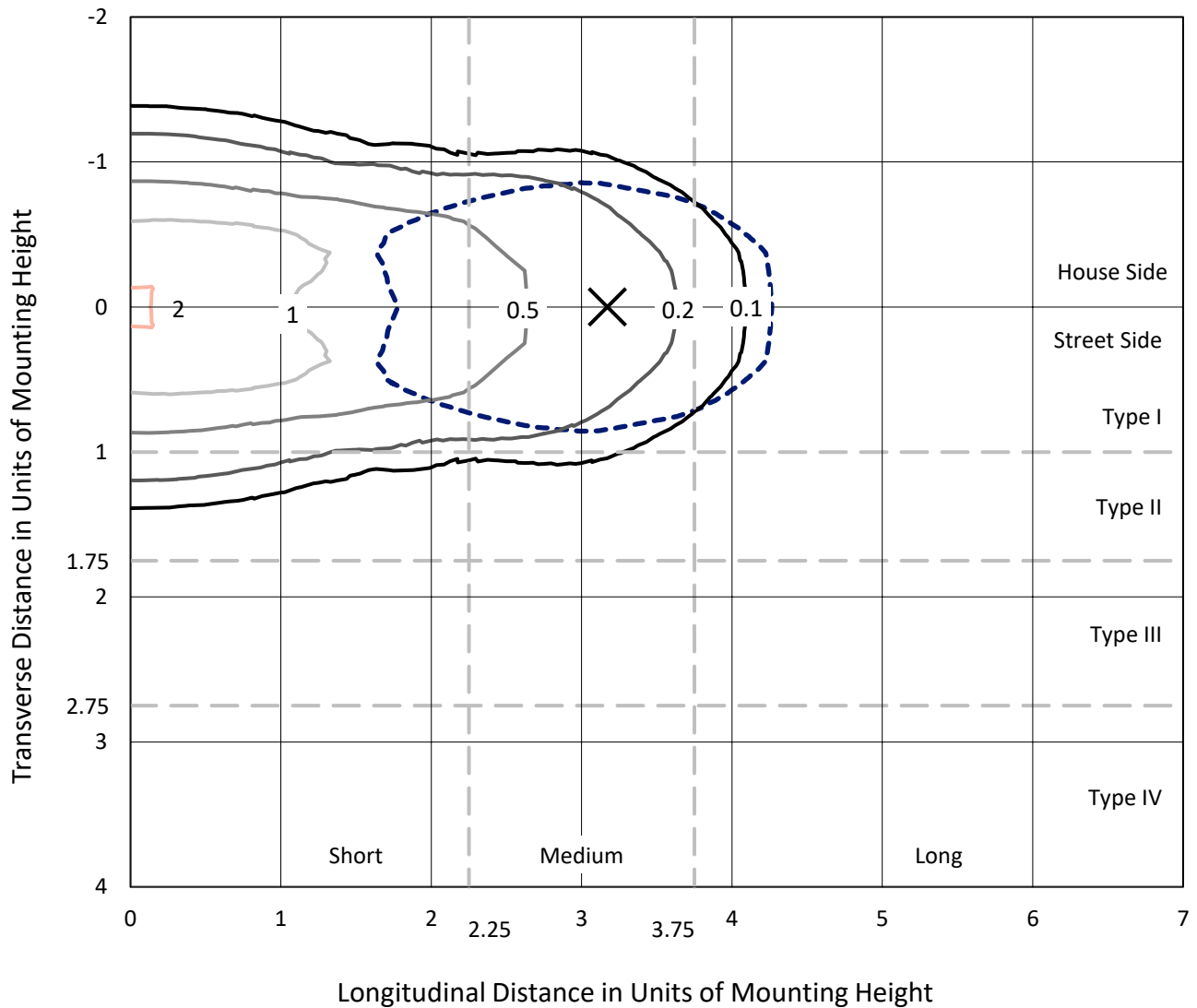
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

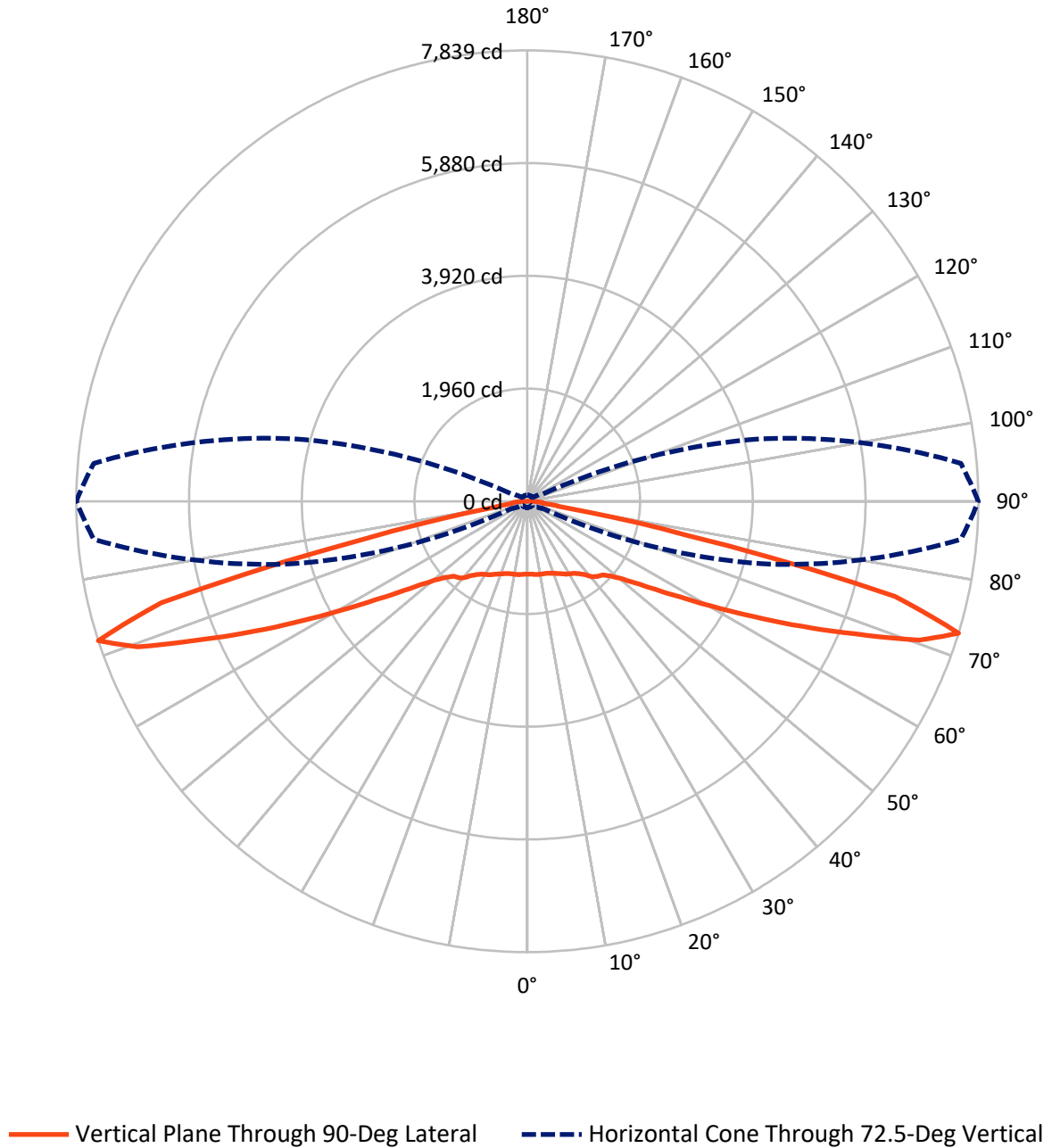
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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 | 3390.5 | 0.0 | 3390.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3390.5 | 0.0 | 3390.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6781.0 | 0.0 | 6781.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.9 | 1.8 |
| 10°-20° | 375.7 | 5.5 |
| 20°-30° | 626.4 | 9.2 |
| 30°-40° | 861.5 | 12.7 |
| 40°-50° | 1052.1 | 15.5 |
| 50°-60° | 1216.8 | 17.9 |
| 60°-70° | 1450.9 | 21.4 |
| 70°-80° | 1012.6 | 14.9 |
| 80°-90° | 62.2 | 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° | 6781.0 | 100.0 |
| 0°-180° | 6781.0 | 100.0 |

Coefficient of Utilization



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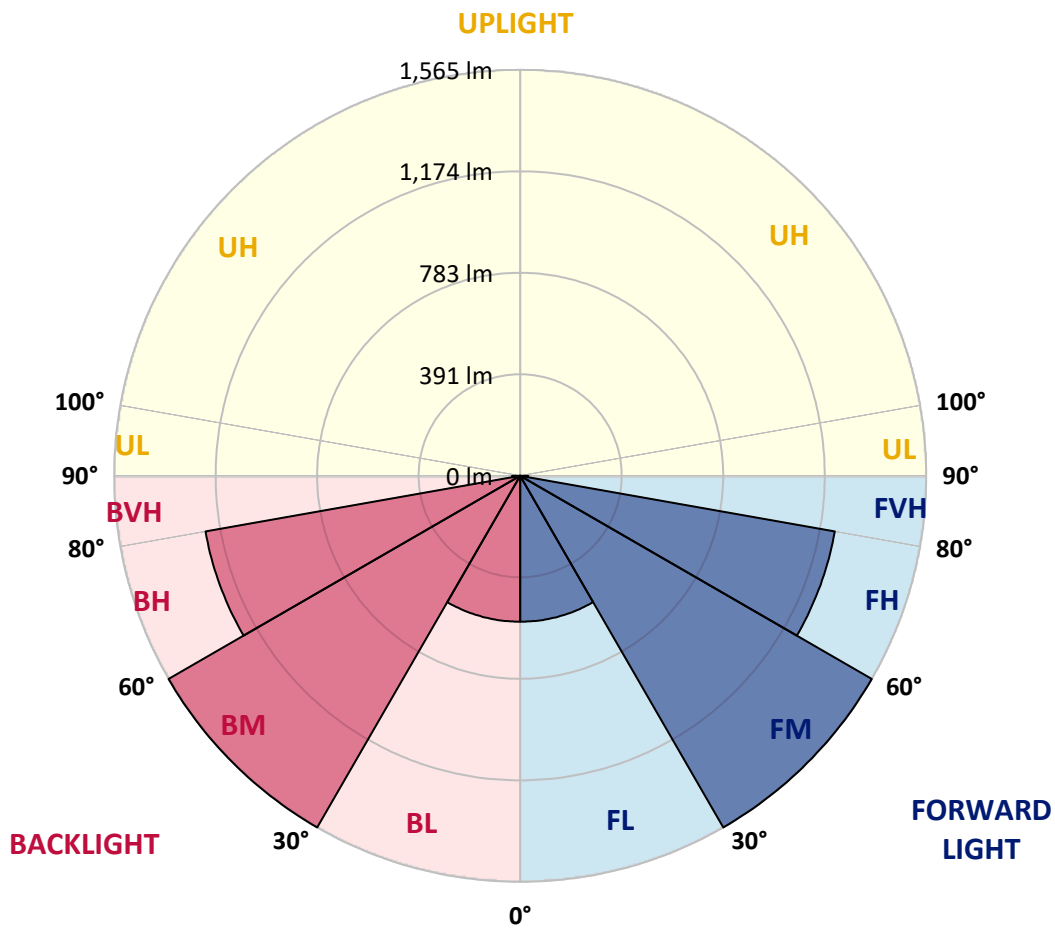
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 562.4 | 8.3 | | | |
| FM (30°-60°) | 1565.2 | 23.1 | | | |
| FH (60°-80°) | 1231.8 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 31.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 562.4 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 1565.2 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1231.8 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 31.1 | 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° | 1267.1 | 1267.1 | 1267.1 | 1267.1 | 1267.1 | 1267.1 | 1267.1 | 1267.1 | 1267.1 | 1267.1 |
| 2.5° | 1268.2 | 1269.6 | 1269.6 | 1268.5 | 1271.1 | 1268.9 | 1268.9 | 1267.8 | 1268.9 | 1267.8 |
| 5° | 1274.7 | 1276.5 | 1277.2 | 1276.8 | 1280.1 | 1278.3 | 1278.3 | 1276.8 | 1277.2 | 1276.1 |
| 7.5° | 1286.9 | 1289.4 | 1290.9 | 1292.7 | 1297.4 | 1295.2 | 1293.8 | 1289.4 | 1287.6 | 1284.8 |
| 10° | 1290.9 | 1293.8 | 1298.5 | 1307.8 | 1318.6 | 1319.0 | 1314.7 | 1303.9 | 1295.6 | 1289.1 |
| 12.5° | 1278.6 | 1282.6 | 1292.3 | 1311.4 | 1335.6 | 1345.3 | 1338.5 | 1320.4 | 1304.2 | 1292.7 |
| 15° | 1263.1 | 1267.5 | 1282.2 | 1311.1 | 1346.7 | 1369.4 | 1368.7 | 1344.9 | 1319.0 | 1301.0 |
| 17.5° | 1239.0 | 1243.3 | 1264.6 | 1304.9 | 1355.4 | 1392.9 | 1403.0 | 1378.5 | 1342.1 | 1317.9 |
| 20° | 1195.4 | 1199.3 | 1228.9 | 1285.5 | 1358.3 | 1417.7 | 1444.0 | 1422.4 | 1377.0 | 1344.2 |
| 22.5° | 1138.8 | 1144.9 | 1179.5 | 1252.0 | 1351.4 | 1443.7 | 1490.9 | 1476.1 | 1417.7 | 1372.3 |
| 25° | 1078.3 | 1084.7 | 1125.1 | 1210.9 | 1333.8 | 1462.4 | 1546.4 | 1537.0 | 1463.9 | 1407.3 |
| 27.5° | 1026.0 | 1032.9 | 1076.8 | 1170.2 | 1306.4 | 1469.6 | 1601.2 | 1605.9 | 1519.7 | 1445.9 |
| 30° | 984.9 | 991.4 | 1038.3 | 1137.4 | 1271.1 | 1462.4 | 1649.1 | 1681.5 | 1576.7 | 1479.4 |
| 32.5° | 939.9 | 948.2 | 997.5 | 1097.4 | 1229.3 | 1445.1 | 1690.9 | 1763.3 | 1642.6 | 1515.4 |
| 35° | 882.9 | 890.5 | 942.4 | 1042.6 | 1174.5 | 1417.4 | 1725.9 | 1854.2 | 1737.0 | 1570.2 |
| 37.5° | 813.7 | 820.9 | 872.5 | 974.1 | 1120.1 | 1378.5 | 1752.5 | 1956.5 | 1849.5 | 1649.1 |
| 40° | 744.2 | 751.0 | 799.3 | 897.7 | 1054.8 | 1328.7 | 1761.9 | 2056.7 | 1978.5 | 1757.6 |
| 42.5° | 680.4 | 686.5 | 730.9 | 822.4 | 981.7 | 1265.3 | 1749.7 | 2143.9 | 2094.2 | 1833.3 |
| 45° | 621.7 | 627.1 | 666.3 | 751.8 | 905.6 | 1188.2 | 1712.9 | 2237.6 | 2231.8 | 1887.3 |
| 47.5° | 554.6 | 560.0 | 600.8 | 683.3 | 829.6 | 1097.7 | 1650.5 | 2329.9 | 2423.2 | 2009.8 |
| 50° | 472.8 | 477.5 | 519.3 | 604.4 | 750.7 | 1001.5 | 1564.1 | 2402.3 | 2664.7 | 2195.4 |
| 52.5° | 375.9 | 380.9 | 421.6 | 506.7 | 657.0 | 898.1 | 1450.2 | 2449.5 | 2943.6 | 2466.5 |
| 55° | 279.7 | 283.3 | 318.6 | 395.0 | 540.9 | 780.2 | 1307.5 | 2462.8 | 3260.0 | 2836.9 |
| 57.5° | 202.9 | 205.1 | 227.8 | 284.7 | 410.1 | 632.8 | 1134.1 | 2428.3 | 3636.6 | 3311.9 |
| 60° | 164.3 | 165.1 | 171.9 | 197.1 | 285.1 | 466.3 | 924.7 | 2309.3 | 4045.3 | 3924.2 |
| 62.5° | 149.2 | 149.2 | 151.0 | 157.8 | 192.8 | 307.8 | 671.4 | 2062.8 | 4483.5 | 4697.9 |
| 65° | 138.7 | 138.7 | 139.5 | 142.7 | 152.1 | 196.0 | 423.8 | 1661.4 | 4852.9 | 5604.3 |
| 67.5° | 129.4 | 129.7 | 129.4 | 130.5 | 135.9 | 144.9 | 245.8 | 1147.5 | 5051.8 | 6543.4 |
| 70° | 119.6 | 120.4 | 118.6 | 118.6 | 122.9 | 123.3 | 153.9 | 629.2 | 4886.8 | 7330.5 |
| 72.5° | 108.1 | 109.2 | 106.3 | 105.6 | 108.8 | 107.4 | 115.7 | 302.0 | 4195.6 | 7565.5 |
| 75° | 98.0 | 99.5 | 93.0 | 91.2 | 91.2 | 90.1 | 94.1 | 155.0 | 2723.0 | 6171.5 |
| 77.5° | 89.0 | 91.9 | 81.4 | 75.7 | 74.2 | 71.0 | 76.8 | 94.8 | 1191.1 | 2897.5 |
| 80° | 73.5 | 77.5 | 67.0 | 60.2 | 57.7 | 54.1 | 60.5 | 66.3 | 354.3 | 672.8 |
| 82.5° | 54.8 | 56.6 | 47.6 | 42.9 | 40.7 | 38.2 | 45.4 | 46.1 | 115.3 | 238.2 |
| 85° | 35.0 | 35.7 | 29.2 | 25.2 | 24.1 | 23.1 | 28.8 | 25.2 | 44.0 | 175.1 |
| 87.5° | 12.3 | 14.1 | 11.2 | 10.1 | 10.8 | 9.0 | 13.3 | 7.6 | 12.3 | 123.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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90°

1267.1
1267.8
1276.1
1284.8
1288.0
1290.9
1298.1
1314.0
1338.1
1364.0
1395.8
1433.6
1461.7
1493.1
1545.3
1616.0
1722.3
1787.9
1826.1
1939.2
2106.8
2357.3
2700.3
3140.0
3707.6
4407.8
5237.4
6147.4
7226.4
7839.4
6601.1
2837.3
644.4
269.2
254.4
153.2
0.0

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