

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: P939383

Luminaire Tested: **GALN-SB1D-950-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939383
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-950-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7005 lumens
Efficiency: N/A
Efficacy: 88.0 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

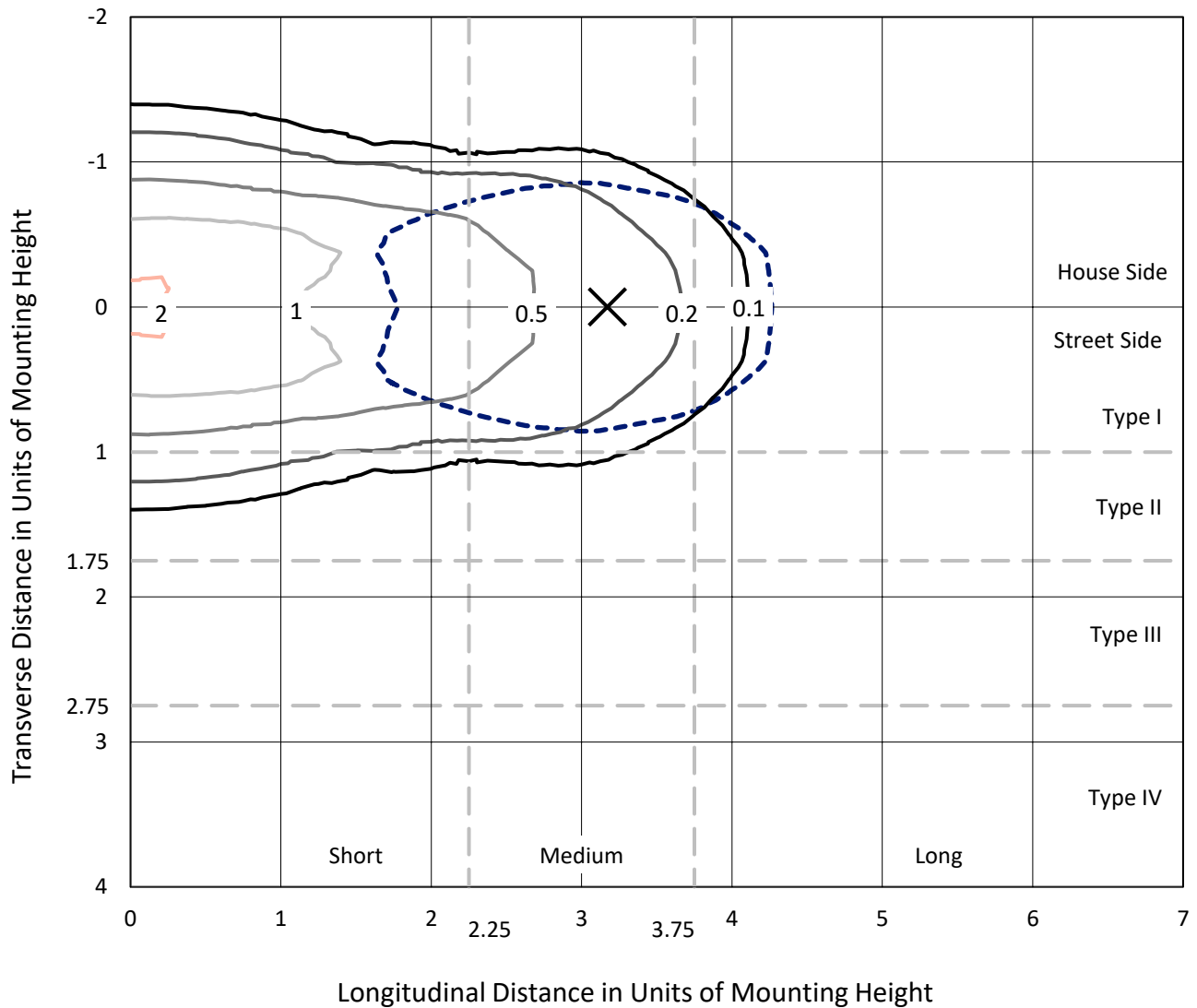
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

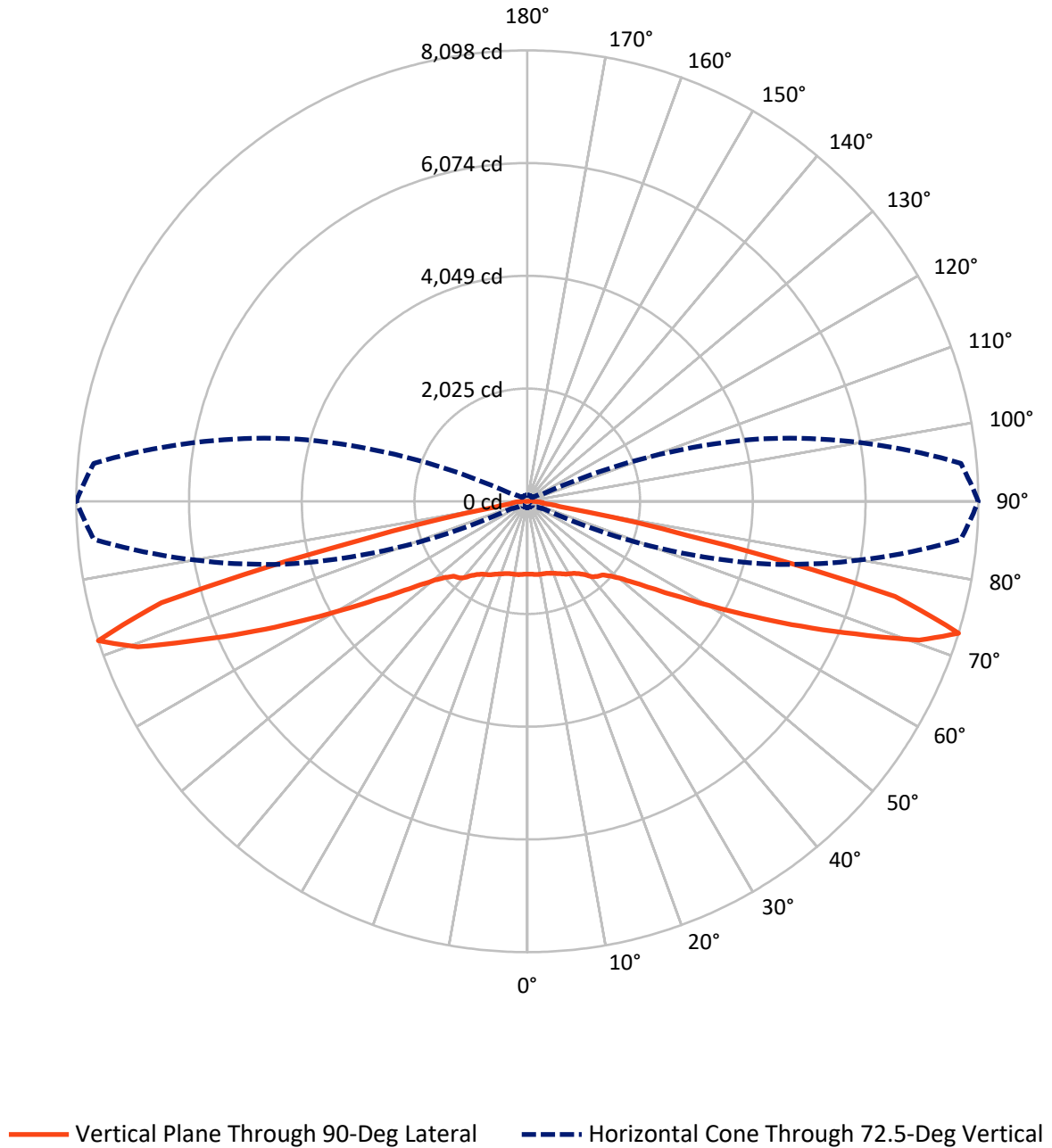
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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 | 3502.5 | 0.0 | 3502.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3502.5 | 0.0 | 3502.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7005.0 | 0.0 | 7005.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.9 | 1.8 |
| 10°-20° | 388.1 | 5.5 |
| 20°-30° | 647.1 | 9.2 |
| 30°-40° | 889.9 | 12.7 |
| 40°-50° | 1086.8 | 15.5 |
| 50°-60° | 1257.0 | 17.9 |
| 60°-70° | 1498.8 | 21.4 |
| 70°-80° | 1046.1 | 14.9 |
| 80°-90° | 64.3 | 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° | 7005.0 | 100.0 |
| 0°-180° | 7005.0 | 100.0 |

Coefficient of Utilization



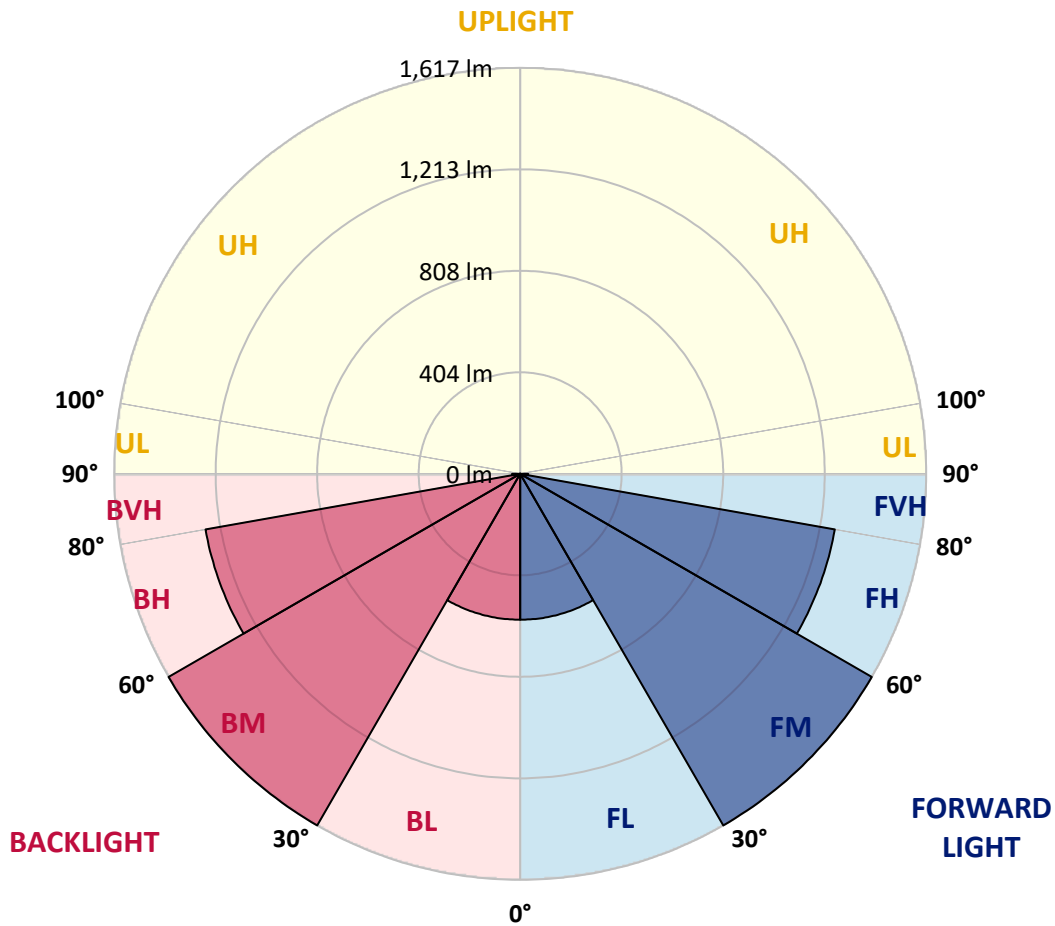
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 581.0 | 8.3 | | | |
| FM (30°-60°) | 1616.9 | 23.1 | | | |
| FH (60°-80°) | 1272.4 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 32.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 581.0 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 1616.9 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1272.4 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 32.1 | 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° | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 |
| 2.5° | 1310.1 | 1311.6 | 1311.6 | 1310.4 | 1313.1 | 1310.8 | 1310.8 | 1309.7 | 1310.8 | 1309.7 |
| 5° | 1316.8 | 1318.6 | 1319.4 | 1319.0 | 1322.4 | 1320.5 | 1320.5 | 1319.0 | 1319.4 | 1318.3 |
| 7.5° | 1329.4 | 1332.0 | 1333.5 | 1335.4 | 1340.2 | 1338.0 | 1336.5 | 1332.0 | 1330.2 | 1327.2 |
| 10° | 1333.5 | 1336.5 | 1341.3 | 1351.0 | 1362.2 | 1362.6 | 1358.1 | 1346.9 | 1338.4 | 1331.7 |
| 12.5° | 1320.9 | 1325.0 | 1335.0 | 1354.7 | 1379.7 | 1389.7 | 1382.7 | 1364.1 | 1347.3 | 1335.4 |
| 15° | 1304.9 | 1309.3 | 1324.6 | 1354.4 | 1391.2 | 1414.7 | 1413.9 | 1389.4 | 1362.6 | 1344.0 |
| 17.5° | 1279.9 | 1284.4 | 1306.4 | 1348.0 | 1400.2 | 1438.9 | 1449.3 | 1424.0 | 1386.4 | 1361.5 |
| 20° | 1234.9 | 1239.0 | 1269.5 | 1327.9 | 1403.1 | 1464.6 | 1491.8 | 1469.4 | 1422.5 | 1388.6 |
| 22.5° | 1176.4 | 1182.8 | 1218.5 | 1293.3 | 1396.1 | 1491.4 | 1540.1 | 1524.9 | 1464.6 | 1417.7 |
| 25° | 1113.9 | 1120.6 | 1162.3 | 1250.9 | 1377.8 | 1510.7 | 1597.5 | 1587.8 | 1512.2 | 1453.8 |
| 27.5° | 1059.9 | 1067.0 | 1112.4 | 1208.8 | 1349.5 | 1518.2 | 1654.1 | 1658.9 | 1569.9 | 1493.6 |
| 30° | 1017.5 | 1024.2 | 1072.6 | 1174.9 | 1313.1 | 1510.7 | 1703.6 | 1737.1 | 1628.8 | 1528.2 |
| 32.5° | 970.9 | 979.5 | 1030.5 | 1133.6 | 1269.9 | 1492.9 | 1746.8 | 1821.6 | 1696.9 | 1565.5 |
| 35° | 912.1 | 919.9 | 973.5 | 1077.0 | 1213.3 | 1464.2 | 1782.9 | 1915.4 | 1794.4 | 1622.1 |
| 37.5° | 840.6 | 848.1 | 901.3 | 1006.3 | 1157.1 | 1424.0 | 1810.4 | 2021.1 | 1910.6 | 1703.6 |
| 40° | 768.8 | 775.8 | 825.7 | 927.4 | 1089.7 | 1372.6 | 1820.1 | 2124.6 | 2043.9 | 1815.6 |
| 42.5° | 702.9 | 709.2 | 755.0 | 849.6 | 1014.1 | 1307.1 | 1807.4 | 2214.7 | 2163.4 | 1893.8 |
| 45° | 642.2 | 647.8 | 688.4 | 776.6 | 935.6 | 1227.4 | 1769.5 | 2311.5 | 2305.6 | 1949.7 |
| 47.5° | 572.9 | 578.5 | 620.6 | 705.9 | 857.0 | 1134.0 | 1705.1 | 2406.8 | 2503.3 | 2076.2 |
| 50° | 488.4 | 493.3 | 536.5 | 624.3 | 775.5 | 1034.6 | 1615.7 | 2481.7 | 2752.7 | 2268.0 |
| 52.5° | 388.3 | 393.5 | 435.6 | 523.4 | 678.7 | 927.7 | 1498.1 | 2530.4 | 3040.8 | 2547.9 |
| 55° | 288.9 | 292.6 | 329.1 | 408.0 | 558.8 | 806.0 | 1350.7 | 2544.2 | 3367.7 | 2930.6 |
| 57.5° | 209.6 | 211.8 | 235.3 | 294.1 | 423.7 | 653.7 | 1171.6 | 2508.5 | 3756.7 | 3421.3 |
| 60° | 169.8 | 170.5 | 177.6 | 203.6 | 294.5 | 481.7 | 955.3 | 2385.6 | 4178.9 | 4053.8 |
| 62.5° | 154.1 | 154.1 | 156.0 | 163.1 | 199.2 | 317.9 | 693.6 | 2131.0 | 4631.6 | 4853.1 |
| 65° | 143.3 | 143.3 | 144.1 | 147.4 | 157.1 | 202.5 | 437.8 | 1716.2 | 5013.2 | 5789.4 |
| 67.5° | 133.7 | 134.0 | 133.7 | 134.8 | 140.4 | 149.7 | 253.9 | 1185.4 | 5218.7 | 6759.6 |
| 70° | 123.6 | 124.3 | 122.5 | 122.5 | 126.9 | 127.3 | 159.0 | 650.0 | 5048.2 | 7572.7 |
| 72.5° | 111.7 | 112.8 | 109.8 | 109.1 | 112.4 | 110.9 | 119.5 | 312.0 | 4334.2 | 7815.4 |
| 75° | 101.3 | 102.8 | 96.0 | 94.2 | 94.2 | 93.1 | 97.2 | 160.1 | 2813.0 | 6375.4 |
| 77.5° | 92.0 | 94.9 | 84.1 | 78.2 | 76.7 | 73.3 | 79.3 | 97.9 | 1230.4 | 2993.2 |
| 80° | 75.9 | 80.0 | 69.2 | 62.2 | 59.6 | 55.8 | 62.5 | 68.5 | 366.0 | 695.1 |
| 82.5° | 56.6 | 58.4 | 49.1 | 44.3 | 42.1 | 39.5 | 46.9 | 47.7 | 119.1 | 246.1 |
| 85° | 36.1 | 36.9 | 30.2 | 26.1 | 24.9 | 23.8 | 29.8 | 26.1 | 45.4 | 180.9 |
| 87.5° | 12.7 | 14.5 | 11.5 | 10.4 | 11.2 | 9.3 | 13.8 | 7.8 | 12.7 | 127.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

1309.0
1309.7
1318.3
1327.2
1330.6
1333.5
1341.0
1357.4
1382.3
1409.1
1441.9
1481.0
1510.0
1542.4
1596.4
1669.3
1779.2
1846.9
1886.4
2003.3
2176.4
2435.1
2789.5
3243.7
3830.1
4553.4
5410.4
6350.5
7465.1
8098.3
6819.2
2931.0
665.6
278.1
262.8
158.2
0.0

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