

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: P939543

Luminaire Tested: **GALN-SB2A-940-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939543
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-940-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6431 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

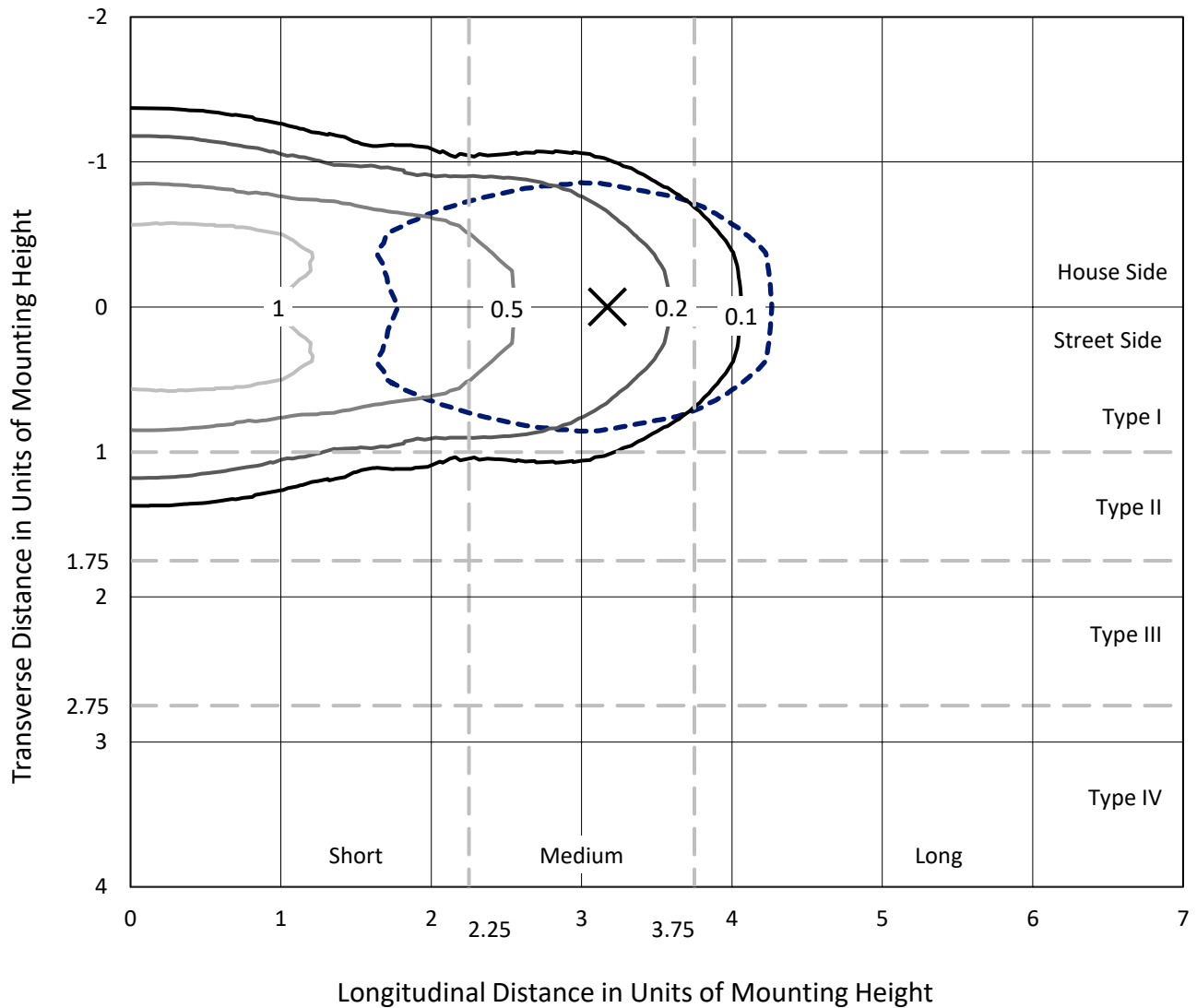
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

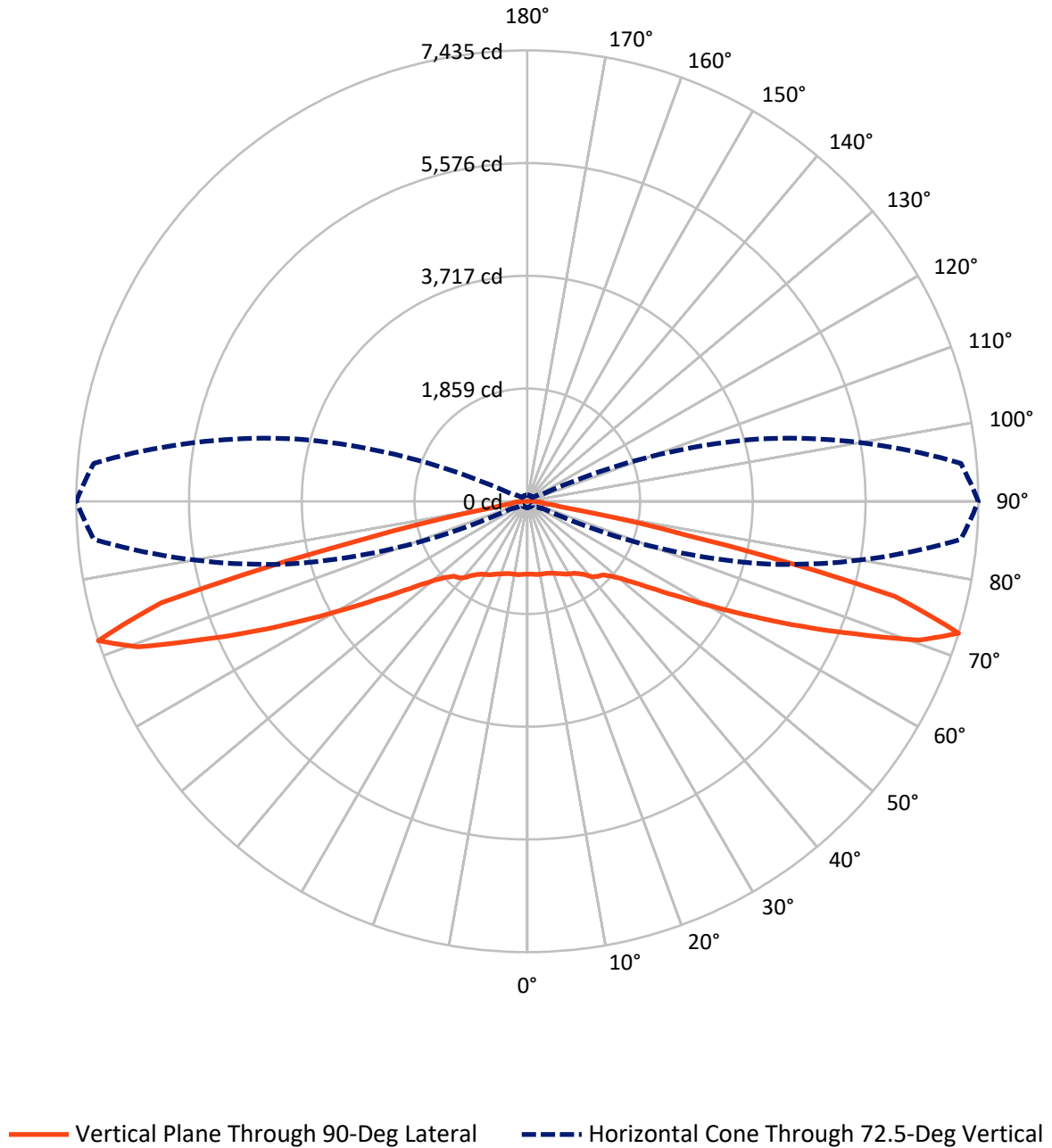
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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 | 3215.5 | 0.0 | 3215.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3215.5 | 0.0 | 3215.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6431.0 | 0.0 | 6431.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.5 | 1.8 |
| 10°-20° | 356.3 | 5.5 |
| 20°-30° | 594.0 | 9.2 |
| 30°-40° | 817.0 | 12.7 |
| 40°-50° | 997.8 | 15.5 |
| 50°-60° | 1154.0 | 17.9 |
| 60°-70° | 1376.0 | 21.4 |
| 70°-80° | 960.4 | 14.9 |
| 80°-90° | 59.0 | 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° | 6431.0 | 100.0 |
| 0°-180° | 6431.0 | 100.0 |

Coefficient of Utilization



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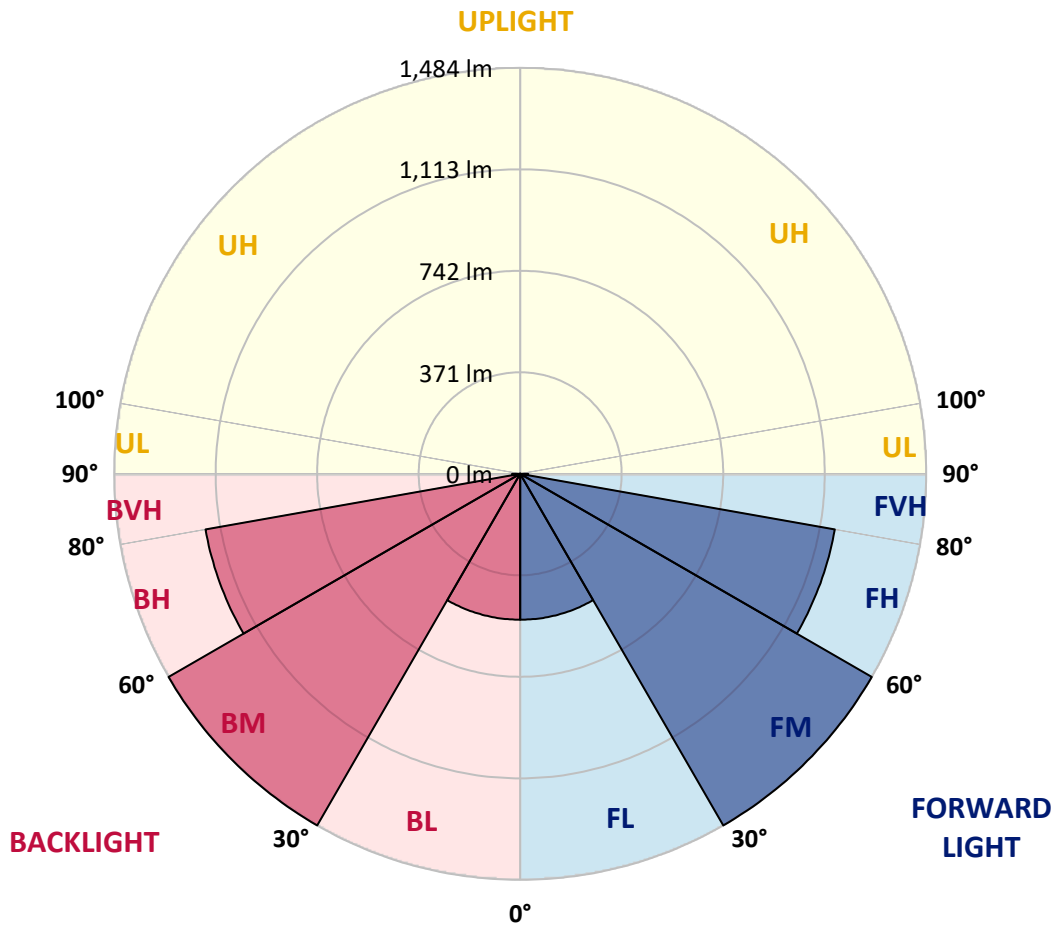
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 533.4 | 8.3 | | | |
| FM (30°-60°) | 1484.4 | 23.1 | | | |
| FH (60°-80°) | 1168.2 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 29.5 | 0.5 | | | G1/100 |
| BL (0°-30°) | 533.4 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 1484.4 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1168.2 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 29.5 | 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° | 1201.7 | 1201.7 | 1201.7 | 1201.7 | 1201.7 | 1201.7 | 1201.7 | 1201.7 | 1201.7 | 1201.7 |
| 2.5° | 1202.7 | 1204.1 | 1204.1 | 1203.1 | 1205.5 | 1203.4 | 1203.4 | 1202.4 | 1203.4 | 1202.4 |
| 5° | 1208.9 | 1210.6 | 1211.3 | 1210.9 | 1214.0 | 1212.3 | 1212.3 | 1210.9 | 1211.3 | 1210.2 |
| 7.5° | 1220.5 | 1222.9 | 1224.3 | 1226.0 | 1230.4 | 1228.4 | 1227.0 | 1222.9 | 1221.2 | 1218.4 |
| 10° | 1224.3 | 1227.0 | 1231.4 | 1240.3 | 1250.6 | 1250.9 | 1246.8 | 1236.6 | 1228.7 | 1222.5 |
| 12.5° | 1212.6 | 1216.4 | 1225.6 | 1243.7 | 1266.6 | 1275.9 | 1269.4 | 1252.3 | 1236.9 | 1226.0 |
| 15° | 1197.9 | 1202.0 | 1216.1 | 1243.4 | 1277.2 | 1298.8 | 1298.1 | 1275.5 | 1250.9 | 1233.8 |
| 17.5° | 1175.0 | 1179.1 | 1199.3 | 1237.6 | 1285.4 | 1321.0 | 1330.6 | 1307.3 | 1272.8 | 1249.9 |
| 20° | 1133.7 | 1137.4 | 1165.5 | 1219.1 | 1288.2 | 1344.6 | 1369.5 | 1349.0 | 1305.9 | 1274.8 |
| 22.5° | 1080.0 | 1085.8 | 1118.6 | 1187.3 | 1281.7 | 1369.2 | 1413.9 | 1399.9 | 1344.6 | 1301.5 |
| 25° | 1022.6 | 1028.8 | 1067.0 | 1148.4 | 1264.9 | 1386.9 | 1466.6 | 1457.7 | 1388.3 | 1334.7 |
| 27.5° | 973.0 | 979.5 | 1021.2 | 1109.8 | 1239.0 | 1393.8 | 1518.5 | 1523.0 | 1441.3 | 1371.2 |
| 30° | 934.1 | 940.2 | 984.7 | 1078.7 | 1205.5 | 1386.9 | 1564.0 | 1594.7 | 1495.3 | 1403.0 |
| 32.5° | 891.4 | 899.2 | 946.0 | 1040.7 | 1165.8 | 1370.5 | 1603.6 | 1672.3 | 1557.8 | 1437.2 |
| 35° | 837.4 | 844.5 | 893.8 | 988.8 | 1113.9 | 1344.2 | 1636.8 | 1758.5 | 1647.4 | 1489.1 |
| 37.5° | 771.7 | 778.6 | 827.5 | 923.8 | 1062.3 | 1307.3 | 1662.1 | 1855.5 | 1754.0 | 1564.0 |
| 40° | 705.8 | 712.3 | 758.1 | 851.4 | 1000.4 | 1260.1 | 1671.0 | 1950.5 | 1876.4 | 1666.9 |
| 42.5° | 645.3 | 651.1 | 693.1 | 779.9 | 931.0 | 1200.0 | 1659.3 | 2033.3 | 1986.1 | 1738.6 |
| 45° | 589.6 | 594.7 | 632.0 | 713.0 | 858.9 | 1126.9 | 1624.5 | 2122.1 | 2116.6 | 1789.9 |
| 47.5° | 526.0 | 531.1 | 569.7 | 648.0 | 786.8 | 1041.1 | 1565.4 | 2209.6 | 2298.1 | 1906.1 |
| 50° | 448.4 | 452.9 | 492.5 | 573.2 | 711.9 | 949.8 | 1483.3 | 2278.3 | 2527.1 | 2082.1 |
| 52.5° | 356.5 | 361.3 | 399.9 | 480.5 | 623.1 | 851.7 | 1375.3 | 2323.1 | 2791.7 | 2339.1 |
| 55° | 265.2 | 268.6 | 302.1 | 374.6 | 513.0 | 740.0 | 1240.0 | 2335.7 | 3091.7 | 2690.5 |
| 57.5° | 192.4 | 194.5 | 216.0 | 270.0 | 388.9 | 600.2 | 1075.6 | 2302.9 | 3448.9 | 3141.0 |
| 60° | 155.9 | 156.5 | 163.0 | 187.0 | 270.3 | 442.3 | 877.0 | 2190.1 | 3836.5 | 3721.6 |
| 62.5° | 141.5 | 141.5 | 143.2 | 149.7 | 182.9 | 291.9 | 636.7 | 1956.4 | 4252.1 | 4455.5 |
| 65° | 131.6 | 131.6 | 132.3 | 135.3 | 144.2 | 185.9 | 401.9 | 1575.6 | 4602.4 | 5315.0 |
| 67.5° | 122.7 | 123.0 | 122.7 | 123.7 | 128.9 | 137.4 | 233.1 | 1088.2 | 4791.1 | 6205.7 |
| 70° | 113.5 | 114.2 | 112.4 | 112.4 | 116.5 | 116.9 | 145.9 | 596.7 | 4634.5 | 6952.2 |
| 72.5° | 102.5 | 103.6 | 100.8 | 100.1 | 103.2 | 101.9 | 109.7 | 286.4 | 3979.0 | 7175.0 |
| 75° | 93.0 | 94.3 | 88.2 | 86.5 | 86.5 | 85.4 | 89.2 | 147.0 | 2582.5 | 5853.0 |
| 77.5° | 84.4 | 87.2 | 77.2 | 71.8 | 70.4 | 67.3 | 72.8 | 89.9 | 1129.6 | 2747.9 |
| 80° | 69.7 | 73.5 | 63.6 | 57.1 | 54.7 | 51.3 | 57.4 | 62.9 | 336.0 | 638.1 |
| 82.5° | 52.0 | 53.7 | 45.1 | 40.7 | 38.6 | 36.2 | 43.1 | 43.7 | 109.4 | 225.9 |
| 85° | 33.2 | 33.8 | 27.7 | 23.9 | 22.9 | 21.9 | 27.3 | 23.9 | 41.7 | 166.1 |
| 87.5° | 11.6 | 13.3 | 10.6 | 9.6 | 10.3 | 8.5 | 12.6 | 7.2 | 11.6 | 117.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

1201.7
1202.4
1210.2
1218.4
1221.5
1224.3
1231.1
1246.1
1269.0
1293.6
1323.7
1359.6
1386.3
1416.0
1465.6
1532.5
1633.4
1695.6
1731.8
1839.1
1998.0
2235.6
2561.0
2977.9
3516.2
4180.3
4967.1
5830.1
6853.4
7434.8
6260.4
2690.8
611.1
255.3
241.3
145.3
0.0

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