

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: P943583

Luminaire Tested: **GALN-SB8A-850-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943583
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-SB8A-850-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34323 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

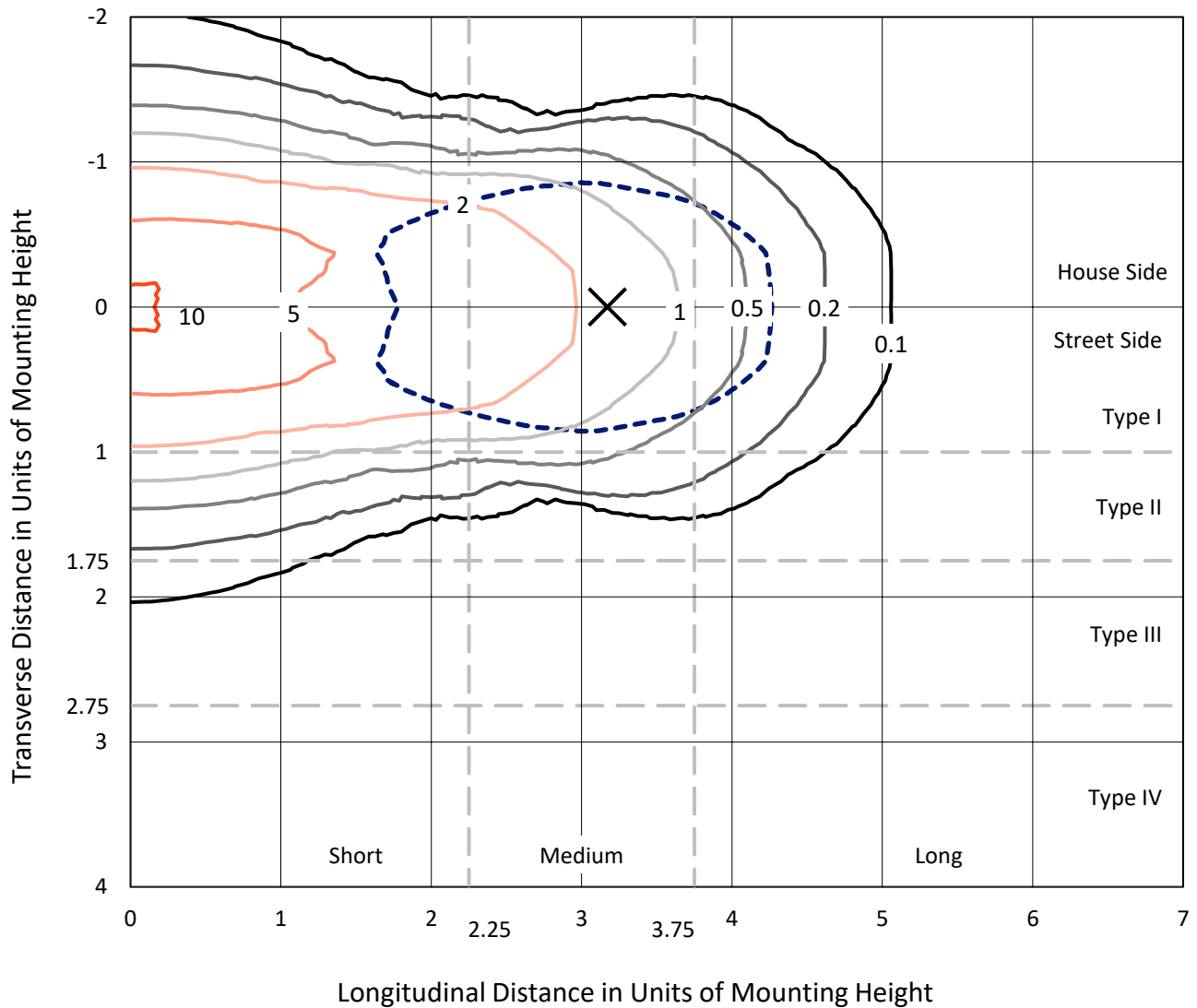
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

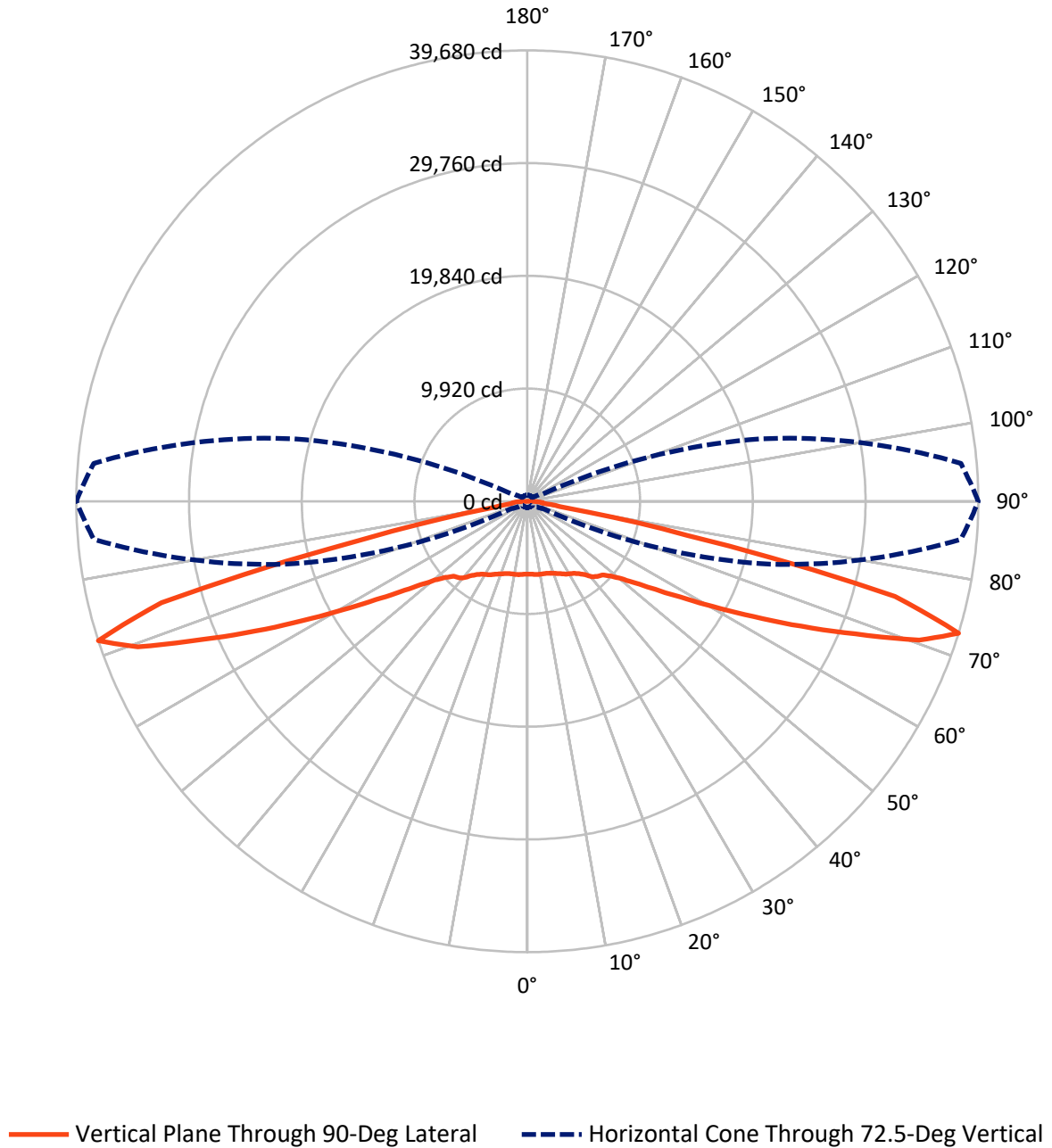
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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 | 17161.5 | 0.0 | 17161.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17161.5 | 0.0 | 17161.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34323.0 | 0.0 | 34323.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 621.9 | 1.8 |
| 10°-20° | 1901.5 | 5.5 |
| 20°-30° | 3170.5 | 9.2 |
| 30°-40° | 4360.4 | 12.7 |
| 40°-50° | 5325.3 | 15.5 |
| 50°-60° | 6159.2 | 17.9 |
| 60°-70° | 7343.9 | 21.4 |
| 70°-80° | 5125.5 | 14.9 |
| 80°-90° | 314.8 | 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° | 34323.0 | 100.0 |
| 0°-180° | 34323.0 | 100.0 |

Coefficient of Utilization



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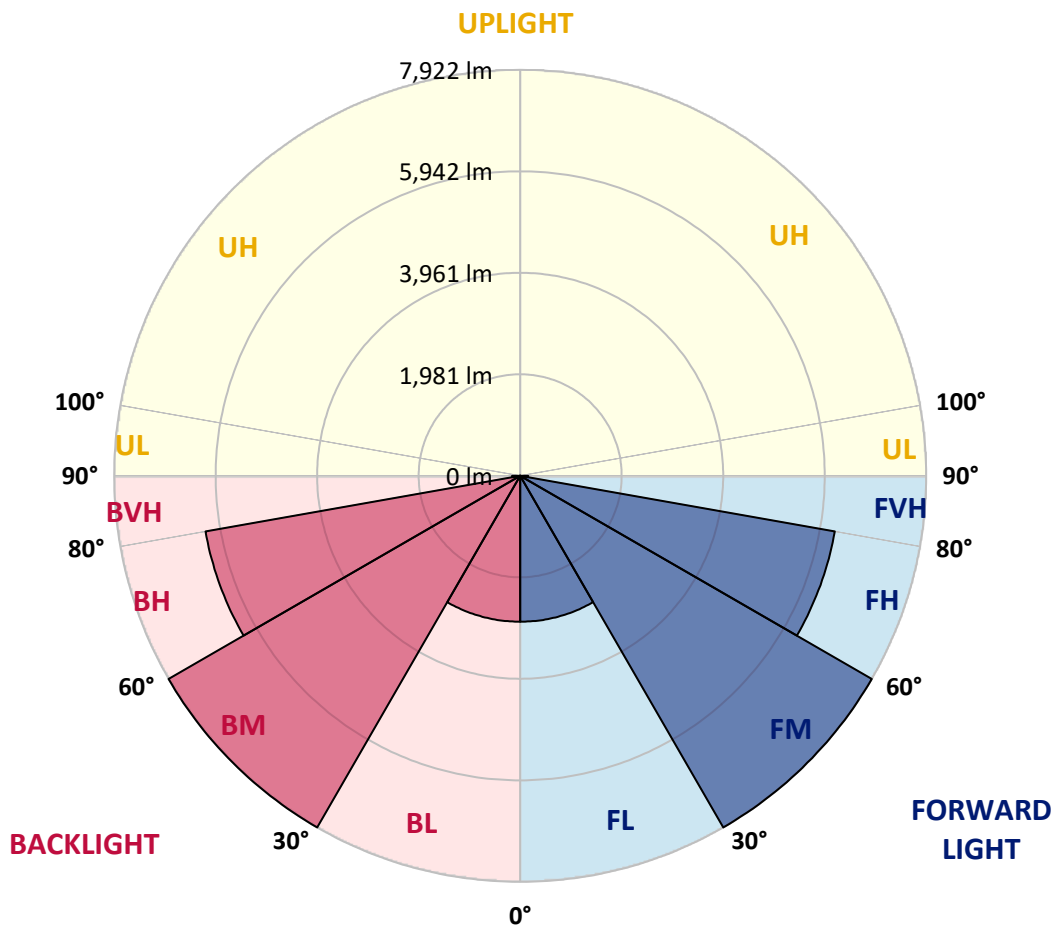
CATALOG NUMBER: GALN-SB8A-850-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2846.9 | 8.3 | | | |
| FM (30°-60°) | 7922.5 | 23.1 | | | |
| FH (60°-80°) | 6234.7 | 18.2 | | | G3/7500 |
| FVH (80°-90°) | 157.4 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2846.9 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 7922.5 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 6234.7 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 157.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 6413.6 | 6413.6 | 6413.6 | 6413.6 | 6413.6 | 6413.6 | 6413.6 | 6413.6 | 6413.6 | 6413.6 |
| 2.5° | 6419.1 | 6426.4 | 6426.4 | 6420.9 | 6433.7 | 6422.7 | 6422.7 | 6417.3 | 6422.7 | 6417.3 |
| 5° | 6451.9 | 6461.0 | 6464.7 | 6462.9 | 6479.3 | 6470.2 | 6470.2 | 6462.9 | 6464.7 | 6459.2 |
| 7.5° | 6513.9 | 6526.7 | 6534.0 | 6543.1 | 6566.8 | 6555.9 | 6548.6 | 6526.7 | 6517.6 | 6503.0 |
| 10° | 6534.0 | 6548.6 | 6572.3 | 6619.7 | 6674.5 | 6676.3 | 6654.4 | 6599.7 | 6557.7 | 6524.9 |
| 12.5° | 6472.0 | 6492.1 | 6541.3 | 6638.0 | 6760.2 | 6809.4 | 6774.8 | 6683.6 | 6601.5 | 6543.1 |
| 15° | 6393.5 | 6415.4 | 6490.2 | 6636.2 | 6816.7 | 6931.7 | 6928.0 | 6807.6 | 6676.3 | 6585.1 |
| 17.5° | 6271.3 | 6293.2 | 6400.8 | 6605.1 | 6860.5 | 7050.2 | 7101.3 | 6977.3 | 6793.0 | 6670.8 |
| 20° | 6050.6 | 6070.7 | 6220.3 | 6506.6 | 6875.1 | 7176.1 | 7309.3 | 7199.8 | 6970.0 | 6804.0 |
| 22.5° | 5764.2 | 5795.2 | 5970.4 | 6337.0 | 6840.5 | 7307.4 | 7546.4 | 7471.6 | 7176.1 | 6946.3 |
| 25° | 5457.8 | 5490.6 | 5694.9 | 6129.1 | 6751.1 | 7402.3 | 7827.3 | 7779.9 | 7409.6 | 7123.2 |
| 27.5° | 5193.3 | 5227.9 | 5450.5 | 5922.9 | 6612.4 | 7438.8 | 8104.6 | 8128.3 | 7692.3 | 7318.4 |
| 30° | 4985.3 | 5018.2 | 5255.3 | 5756.9 | 6433.7 | 7402.3 | 8347.2 | 8511.4 | 7980.5 | 7488.0 |
| 32.5° | 4757.3 | 4799.3 | 5049.2 | 5554.5 | 6222.1 | 7314.7 | 8558.8 | 8925.4 | 8314.4 | 7670.4 |
| 35° | 4469.1 | 4507.4 | 4770.1 | 5277.2 | 5944.8 | 7174.3 | 8735.7 | 9385.1 | 8792.3 | 7947.7 |
| 37.5° | 4118.9 | 4155.4 | 4416.2 | 4930.6 | 5669.4 | 6977.3 | 8870.7 | 9903.2 | 9361.4 | 8347.2 |
| 40° | 3766.8 | 3801.5 | 4045.9 | 4543.9 | 5339.2 | 6725.5 | 8918.1 | 10410.3 | 10014.4 | 8896.2 |
| 42.5° | 3443.9 | 3475.0 | 3699.3 | 4162.6 | 4968.9 | 6404.5 | 8856.1 | 10851.7 | 10600.0 | 9279.3 |
| 45° | 3146.6 | 3174.0 | 3372.8 | 3805.1 | 4584.0 | 6014.1 | 8670.1 | 11326.0 | 11296.8 | 9552.9 |
| 47.5° | 2807.3 | 2834.7 | 3040.8 | 3458.5 | 4199.1 | 5556.3 | 8354.5 | 11793.0 | 12265.4 | 10173.1 |
| 50° | 2393.2 | 2417.0 | 2628.6 | 3059.1 | 3799.6 | 5069.2 | 7916.7 | 12159.6 | 13487.6 | 11112.6 |
| 52.5° | 1902.6 | 1928.1 | 2134.2 | 2564.7 | 3325.4 | 4545.7 | 7340.3 | 12398.6 | 14899.4 | 12484.3 |
| 55° | 1415.5 | 1433.8 | 1612.5 | 1999.2 | 2738.0 | 3949.2 | 6617.9 | 12466.1 | 16501.0 | 14359.5 |
| 57.5° | 1027.0 | 1037.9 | 1152.8 | 1441.1 | 2075.9 | 3203.2 | 5740.5 | 12290.9 | 18407.2 | 16763.7 |
| 60° | 831.8 | 835.4 | 870.1 | 997.8 | 1442.9 | 2360.4 | 4680.7 | 11689.0 | 20475.8 | 19862.9 |
| 62.5° | 755.2 | 755.2 | 764.3 | 799.0 | 975.9 | 1557.8 | 3398.3 | 10441.3 | 22693.9 | 23779.3 |
| 65° | 702.3 | 702.3 | 705.9 | 722.4 | 769.8 | 992.3 | 2145.2 | 8409.2 | 24563.6 | 28366.9 |
| 67.5° | 654.9 | 656.7 | 654.9 | 660.3 | 687.7 | 733.3 | 1244.1 | 5808.0 | 25570.5 | 33120.6 |
| 70° | 605.6 | 609.3 | 600.1 | 600.1 | 622.0 | 623.8 | 778.9 | 3184.9 | 24735.1 | 37104.5 |
| 72.5° | 547.2 | 552.7 | 538.1 | 534.5 | 550.9 | 543.6 | 585.5 | 1528.6 | 21236.4 | 38293.8 |
| 75° | 496.2 | 503.5 | 470.6 | 461.5 | 461.5 | 456.0 | 476.1 | 784.4 | 13783.1 | 31238.1 |
| 77.5° | 450.6 | 465.2 | 412.3 | 383.1 | 375.8 | 359.4 | 388.5 | 479.7 | 6028.7 | 14665.9 |
| 80° | 372.1 | 392.2 | 339.3 | 304.6 | 291.9 | 273.6 | 306.5 | 335.6 | 1793.1 | 3405.6 |
| 82.5° | 277.3 | 286.4 | 240.8 | 217.1 | 206.1 | 193.4 | 229.8 | 233.5 | 583.7 | 1205.7 |
| 85° | 176.9 | 180.6 | 147.8 | 127.7 | 122.2 | 116.7 | 145.9 | 127.7 | 222.5 | 886.5 |
| 87.5° | 62.0 | 71.1 | 56.5 | 51.1 | 54.7 | 45.6 | 67.5 | 38.3 | 62.0 | 625.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

6413.6
6417.3
6459.2
6503.0
6519.4
6534.0
6570.5
6650.8
6773.0
6904.3
7064.8
7256.4
7398.6
7557.3
7821.8
8179.4
8717.5
9049.5
9242.8
9815.6
10663.8
11931.6
13668.2
15893.6
18766.6
22310.8
26510.0
31115.9
36577.3
39680.1
33412.5
14361.3
3261.5
1362.6
1287.8
775.3
0.0

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