

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: P942863

Luminaire Tested: **GALN-SB7A-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942863
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-SB7A-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27443 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

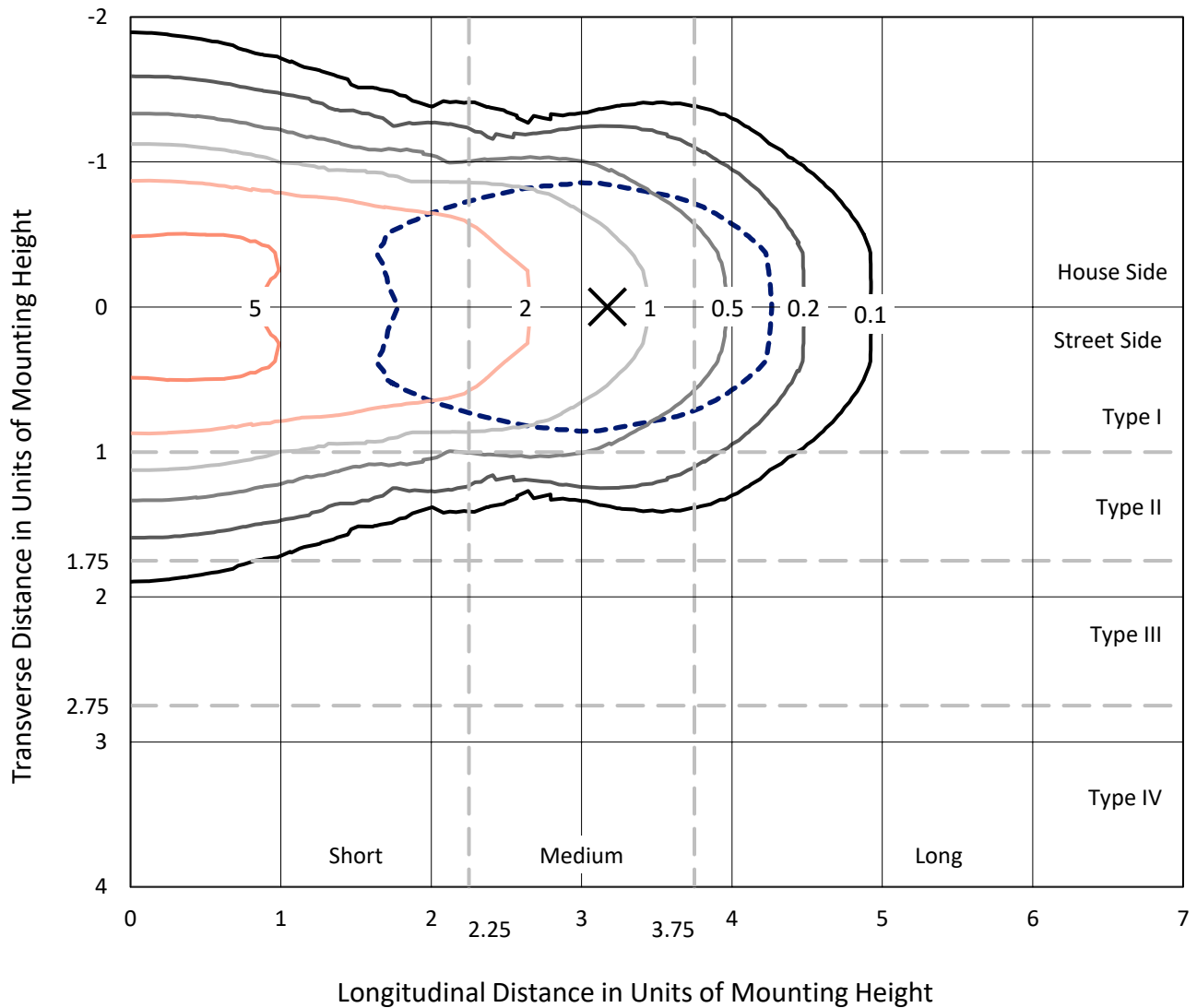
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

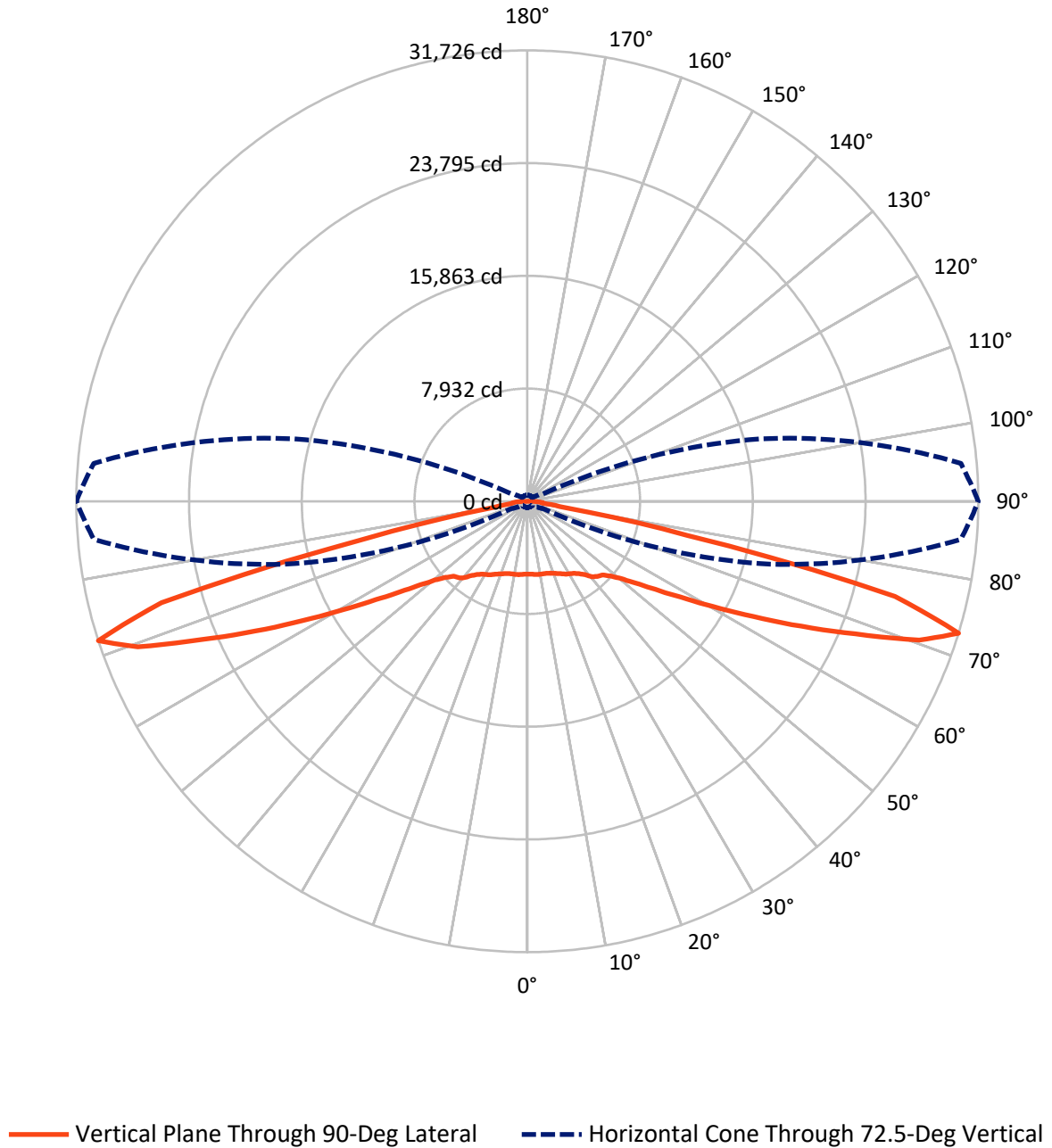
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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 | 13721.5 | 0.0 | 13721.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13721.5 | 0.0 | 13721.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27443.0 | 0.0 | 27443.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 497.2 | 1.8 |
| 10°-20° | 1520.3 | 5.5 |
| 20°-30° | 2535.0 | 9.2 |
| 30°-40° | 3486.4 | 12.7 |
| 40°-50° | 4257.8 | 15.5 |
| 50°-60° | 4924.6 | 17.9 |
| 60°-70° | 5871.8 | 21.4 |
| 70°-80° | 4098.1 | 14.9 |
| 80°-90° | 251.7 | 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° | 27443.0 | 100.0 |
| 0°-180° | 27443.0 | 100.0 |

Coefficient of Utilization



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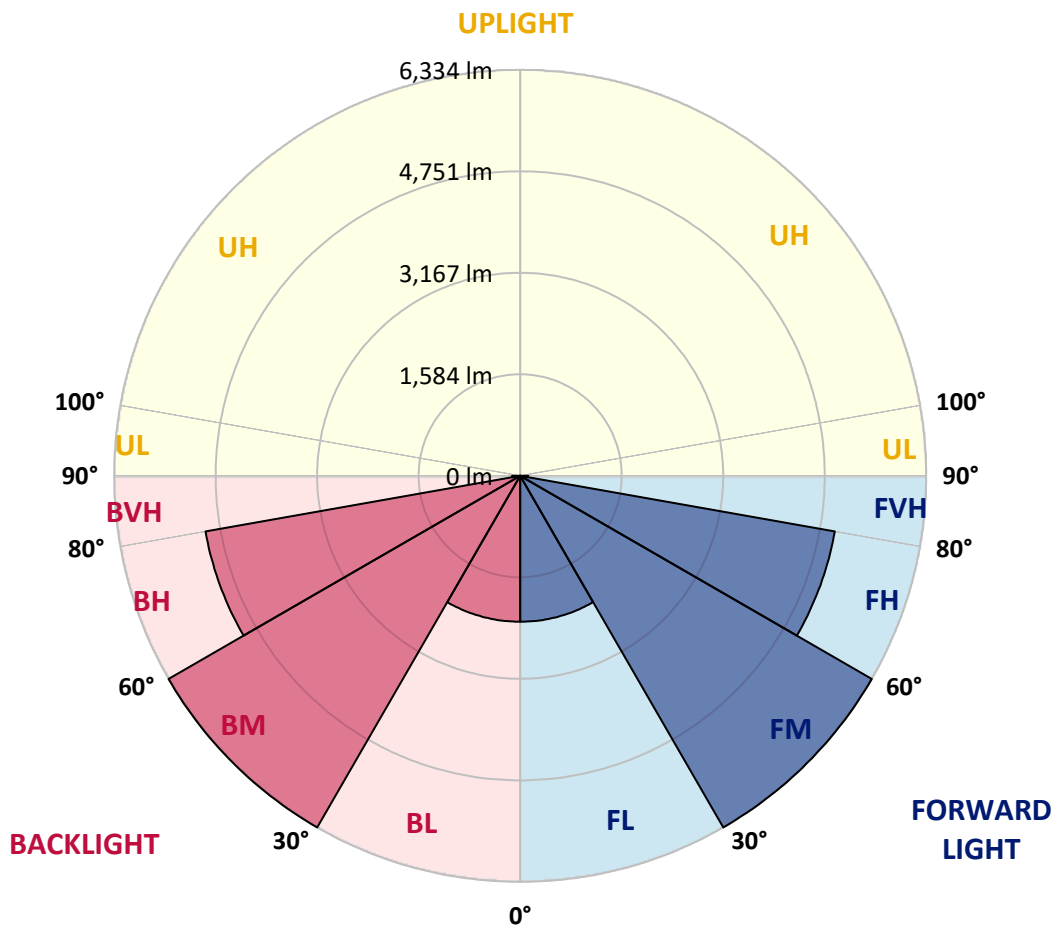
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2276.3 | 8.3 | | | |
| FM (30°-60°) | 6334.4 | 23.1 | | | |
| FH (60°-80°) | 4985.0 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 125.9 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2276.3 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 6334.4 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 4985.0 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 125.9 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 5128.0 | 5128.0 | 5128.0 | 5128.0 | 5128.0 | 5128.0 | 5128.0 | 5128.0 | 5128.0 | 5128.0 |
| 2.5° | 5132.4 | 5138.2 | 5138.2 | 5133.8 | 5144.1 | 5135.3 | 5135.3 | 5130.9 | 5135.3 | 5130.9 |
| 5° | 5158.6 | 5165.9 | 5168.9 | 5167.4 | 5180.5 | 5173.2 | 5173.2 | 5167.4 | 5168.9 | 5164.5 |
| 7.5° | 5208.2 | 5218.4 | 5224.3 | 5231.6 | 5250.5 | 5241.8 | 5235.9 | 5218.4 | 5211.1 | 5199.5 |
| 10° | 5224.3 | 5235.9 | 5254.9 | 5292.8 | 5336.6 | 5338.0 | 5320.5 | 5276.8 | 5243.2 | 5217.0 |
| 12.5° | 5174.7 | 5190.7 | 5230.1 | 5307.4 | 5405.1 | 5444.5 | 5416.8 | 5343.9 | 5278.2 | 5231.6 |
| 15° | 5112.0 | 5129.5 | 5189.3 | 5305.9 | 5450.3 | 5542.2 | 5539.3 | 5443.0 | 5338.0 | 5265.1 |
| 17.5° | 5014.3 | 5031.8 | 5117.8 | 5281.2 | 5485.3 | 5637.0 | 5677.9 | 5578.7 | 5431.4 | 5333.7 |
| 20° | 4837.8 | 4853.8 | 4973.4 | 5202.4 | 5497.0 | 5737.7 | 5844.1 | 5756.6 | 5572.9 | 5440.1 |
| 22.5° | 4608.8 | 4633.6 | 4773.6 | 5066.8 | 5469.3 | 5842.7 | 6033.7 | 5973.9 | 5737.7 | 5553.9 |
| 25° | 4363.8 | 4390.0 | 4553.4 | 4900.5 | 5397.8 | 5918.5 | 6258.3 | 6220.4 | 5924.3 | 5695.4 |
| 27.5° | 4152.3 | 4180.0 | 4357.9 | 4735.7 | 5287.0 | 5947.7 | 6480.0 | 6499.0 | 6150.4 | 5851.4 |
| 30° | 3986.0 | 4012.3 | 4201.9 | 4603.0 | 5144.1 | 5918.5 | 6674.0 | 6805.3 | 6380.8 | 5987.1 |
| 32.5° | 3803.7 | 3837.3 | 4037.1 | 4441.1 | 4974.9 | 5848.5 | 6843.2 | 7136.3 | 6647.7 | 6132.9 |
| 35° | 3573.3 | 3603.9 | 3813.9 | 4219.4 | 4753.2 | 5736.2 | 6984.7 | 7503.9 | 7029.9 | 6354.6 |
| 37.5° | 3293.2 | 3322.4 | 3531.0 | 3942.3 | 4533.0 | 5578.7 | 7092.6 | 7918.1 | 7484.9 | 6674.0 |
| 40° | 3011.8 | 3039.5 | 3234.9 | 3633.1 | 4269.0 | 5377.4 | 7130.5 | 8323.5 | 8007.1 | 7113.0 |
| 42.5° | 2753.6 | 2778.4 | 2957.8 | 3328.3 | 3972.9 | 5120.7 | 7080.9 | 8676.5 | 8475.2 | 7419.3 |
| 45° | 2515.9 | 2537.8 | 2696.7 | 3042.4 | 3665.2 | 4808.6 | 6932.2 | 9055.7 | 9032.4 | 7638.1 |
| 47.5° | 2244.6 | 2266.5 | 2431.3 | 2765.3 | 3357.4 | 4442.5 | 6679.8 | 9429.1 | 9806.8 | 8133.9 |
| 50° | 1913.5 | 1932.5 | 2101.7 | 2445.9 | 3038.0 | 4053.1 | 6329.8 | 9722.2 | 10784.0 | 8885.1 |
| 52.5° | 1521.2 | 1541.6 | 1706.4 | 2050.6 | 2658.8 | 3634.5 | 5868.9 | 9913.3 | 11912.9 | 9981.8 |
| 55° | 1131.8 | 1146.4 | 1289.3 | 1598.5 | 2189.2 | 3157.6 | 5291.4 | 9967.2 | 13193.4 | 11481.2 |
| 57.5° | 821.1 | 829.9 | 921.8 | 1152.2 | 1659.7 | 2561.1 | 4589.8 | 9827.2 | 14717.5 | 13403.4 |
| 60° | 665.1 | 668.0 | 695.7 | 797.8 | 1153.7 | 1887.3 | 3742.5 | 9345.9 | 16371.4 | 15881.4 |
| 62.5° | 603.8 | 603.8 | 611.1 | 638.8 | 780.3 | 1245.5 | 2717.1 | 8348.3 | 18144.9 | 19012.7 |
| 65° | 561.5 | 561.5 | 564.4 | 577.6 | 615.5 | 793.4 | 1715.2 | 6723.6 | 19639.9 | 22680.8 |
| 67.5° | 523.6 | 525.1 | 523.6 | 528.0 | 549.8 | 586.3 | 994.7 | 4643.8 | 20445.0 | 26481.6 |
| 70° | 484.2 | 487.1 | 479.8 | 479.8 | 497.3 | 498.8 | 622.8 | 2546.5 | 19777.0 | 29666.9 |
| 72.5° | 437.5 | 441.9 | 430.3 | 427.3 | 440.5 | 434.6 | 468.2 | 1222.2 | 16979.6 | 30617.9 |
| 75° | 396.7 | 402.5 | 376.3 | 369.0 | 369.0 | 364.6 | 380.7 | 627.1 | 11020.3 | 24976.5 |
| 77.5° | 360.2 | 371.9 | 329.6 | 306.3 | 300.4 | 287.3 | 310.7 | 383.6 | 4820.3 | 11726.2 |
| 80° | 297.5 | 313.6 | 271.3 | 243.6 | 233.4 | 218.8 | 245.0 | 268.4 | 1433.7 | 2723.0 |
| 82.5° | 221.7 | 229.0 | 192.5 | 173.6 | 164.8 | 154.6 | 183.8 | 186.7 | 466.7 | 964.1 |
| 85° | 141.5 | 144.4 | 118.1 | 102.1 | 97.7 | 93.3 | 116.7 | 102.1 | 177.9 | 708.8 |
| 87.5° | 49.6 | 56.9 | 45.2 | 40.8 | 43.8 | 36.5 | 54.0 | 30.6 | 49.6 | 500.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

5128.0
5130.9
5164.5
5199.5
5212.6
5224.3
5253.4
5317.6
5415.3
5520.3
5648.7
5801.8
5915.6
6042.5
6254.0
6539.8
6970.1
7235.5
7390.1
7848.1
8526.3
9539.9
10928.4
12707.7
15004.8
17838.7
21196.1
24878.7
29245.4
31726.3
26715.0
11482.6
2607.8
1089.5
1029.7
619.9
0.0

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