

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: P941043

Luminaire Tested: **GALN-SB4B-927-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941043
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-SB4B-927-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 13590 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

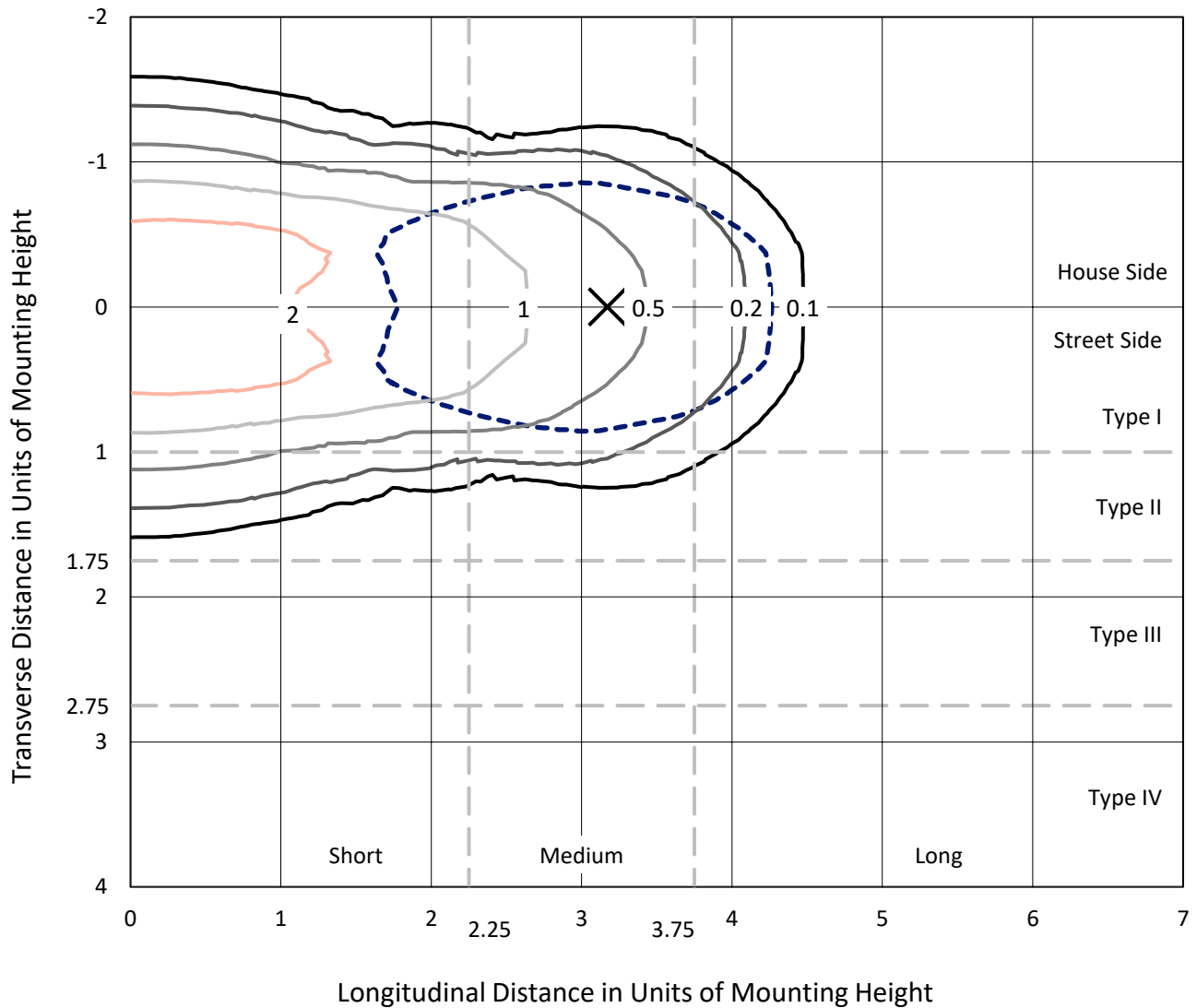
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

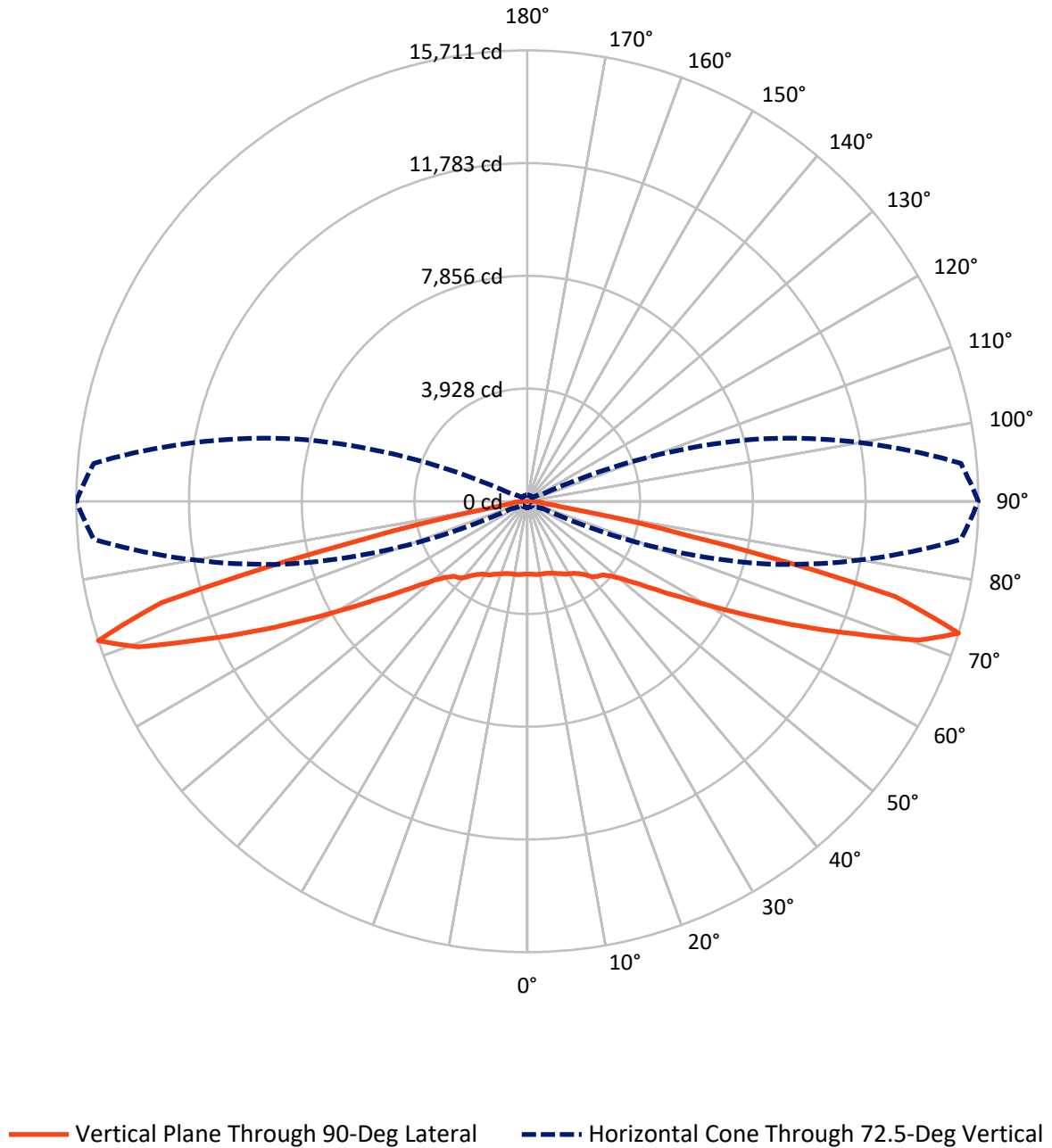
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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 | 6795.0 | 0.0 | 6795.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6795.0 | 0.0 | 6795.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13590.0 | 0.0 | 13590.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 246.2 | 1.8 |
| 10°-20° | 752.9 | 5.5 |
| 20°-30° | 1255.3 | 9.2 |
| 30°-40° | 1726.5 | 12.7 |
| 40°-50° | 2108.5 | 15.5 |
| 50°-60° | 2438.7 | 17.9 |
| 60°-70° | 2907.8 | 21.4 |
| 70°-80° | 2029.4 | 14.9 |
| 80°-90° | 124.6 | 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° | 13590.0 | 100.0 |
| 0°-180° | 13590.0 | 100.0 |



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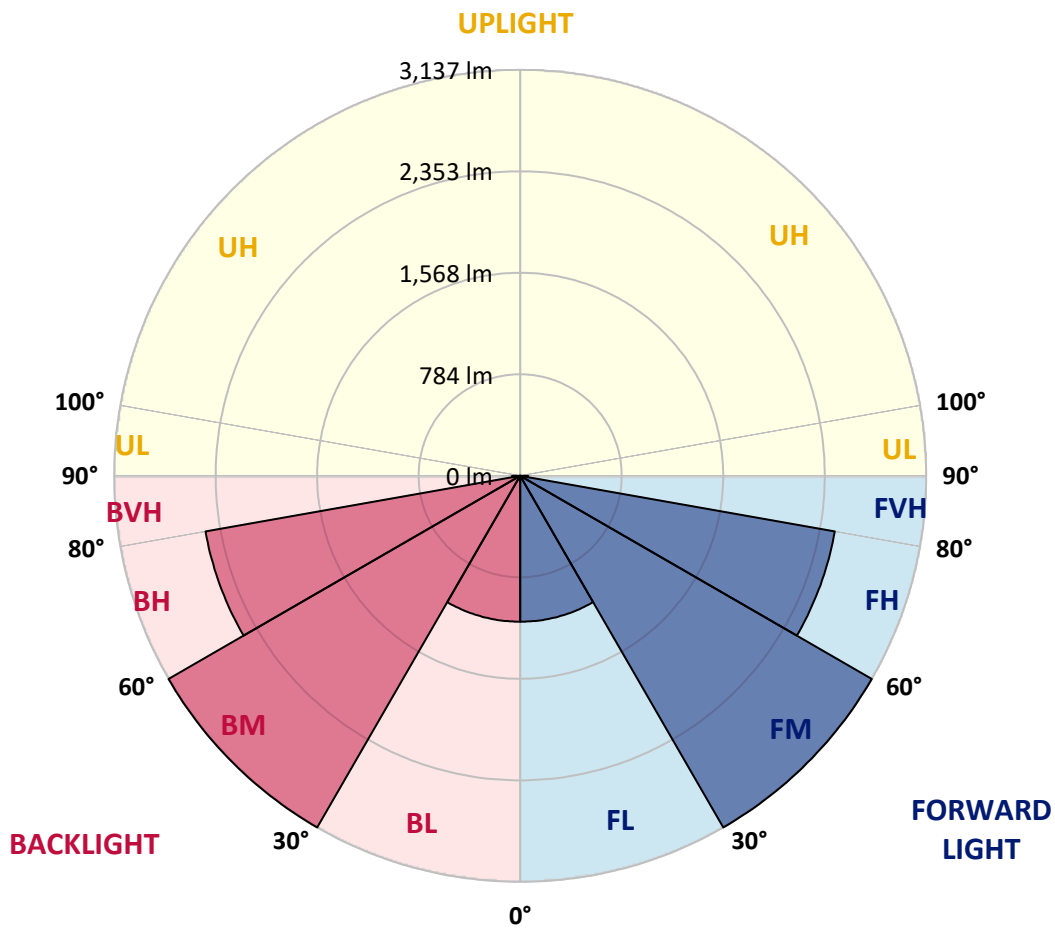
CATALOG NUMBER: GALN-SB4B-927-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1127.2 | 8.3 | | | |
| FM (30°-60°) | 3136.9 | 23.1 | | | |
| FH (60°-80°) | 2468.6 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 62.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1127.2 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 3136.9 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 2468.6 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 62.3 | 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° | 2539.4 | 2539.4 | 2539.4 | 2539.4 | 2539.4 | 2539.4 | 2539.4 | 2539.4 | 2539.4 | 2539.4 |
| 2.5° | 2541.6 | 2544.5 | 2544.5 | 2542.3 | 2547.4 | 2543.0 | 2543.0 | 2540.9 | 2543.0 | 2540.9 |
| 5° | 2554.6 | 2558.2 | 2559.7 | 2558.9 | 2565.4 | 2561.8 | 2561.8 | 2558.9 | 2559.7 | 2557.5 |
| 7.5° | 2579.2 | 2584.2 | 2587.1 | 2590.7 | 2600.1 | 2595.8 | 2592.9 | 2584.2 | 2580.6 | 2574.8 |
| 10° | 2587.1 | 2592.9 | 2602.3 | 2621.0 | 2642.7 | 2643.4 | 2634.8 | 2613.1 | 2596.5 | 2583.5 |
| 12.5° | 2562.5 | 2570.5 | 2590.0 | 2628.3 | 2676.7 | 2696.2 | 2682.4 | 2646.3 | 2613.8 | 2590.7 |
| 15° | 2531.5 | 2540.2 | 2569.8 | 2627.5 | 2699.1 | 2744.6 | 2743.1 | 2695.4 | 2643.4 | 2607.3 |
| 17.5° | 2483.1 | 2491.8 | 2534.4 | 2615.3 | 2716.4 | 2791.5 | 2811.7 | 2762.6 | 2689.7 | 2641.3 |
| 20° | 2395.7 | 2403.7 | 2462.9 | 2576.3 | 2722.2 | 2841.3 | 2894.1 | 2850.7 | 2759.7 | 2694.0 |
| 22.5° | 2282.3 | 2294.6 | 2363.9 | 2509.1 | 2708.4 | 2893.3 | 2988.0 | 2958.3 | 2841.3 | 2750.3 |
| 25° | 2161.0 | 2174.0 | 2254.9 | 2426.8 | 2673.1 | 2930.9 | 3099.2 | 3080.4 | 2933.8 | 2820.4 |
| 27.5° | 2056.2 | 2070.0 | 2158.1 | 2345.1 | 2618.2 | 2945.3 | 3209.0 | 3218.4 | 3045.7 | 2897.7 |
| 30° | 1973.9 | 1986.9 | 2080.8 | 2279.4 | 2547.4 | 2930.9 | 3305.0 | 3370.0 | 3159.8 | 2964.8 |
| 32.5° | 1883.6 | 1900.2 | 1999.2 | 2199.3 | 2463.6 | 2896.2 | 3388.8 | 3534.0 | 3292.0 | 3037.1 |
| 35° | 1769.5 | 1784.7 | 1888.7 | 2089.5 | 2353.8 | 2840.6 | 3458.9 | 3716.0 | 3481.3 | 3146.8 |
| 37.5° | 1630.8 | 1645.3 | 1748.6 | 1952.2 | 2244.8 | 2762.6 | 3512.3 | 3921.1 | 3706.6 | 3305.0 |
| 40° | 1491.4 | 1505.2 | 1602.0 | 1799.1 | 2114.0 | 2662.9 | 3531.1 | 4121.9 | 3965.2 | 3522.4 |
| 42.5° | 1363.6 | 1375.9 | 1464.7 | 1648.2 | 1967.4 | 2535.8 | 3506.5 | 4296.7 | 4197.0 | 3674.1 |
| 45° | 1245.9 | 1256.7 | 1335.4 | 1506.6 | 1815.0 | 2381.3 | 3432.9 | 4484.5 | 4472.9 | 3782.4 |
| 47.5° | 1111.5 | 1122.4 | 1204.0 | 1369.4 | 1662.6 | 2200.0 | 3307.9 | 4669.4 | 4856.4 | 4028.0 |
| 50° | 947.6 | 957.0 | 1040.8 | 1211.2 | 1504.4 | 2007.1 | 3134.6 | 4814.5 | 5340.3 | 4400.0 |
| 52.5° | 753.3 | 763.4 | 845.0 | 1015.5 | 1316.7 | 1799.8 | 2906.3 | 4909.1 | 5899.3 | 4943.1 |
| 55° | 560.5 | 567.7 | 638.5 | 791.6 | 1084.1 | 1563.7 | 2620.3 | 4935.9 | 6533.5 | 5685.6 |
| 57.5° | 406.6 | 411.0 | 456.5 | 570.6 | 821.9 | 1268.3 | 2272.9 | 4866.5 | 7288.2 | 6637.5 |
| 60° | 329.3 | 330.8 | 344.5 | 395.1 | 571.3 | 934.6 | 1853.3 | 4628.2 | 8107.3 | 7864.6 |
| 62.5° | 299.0 | 299.0 | 302.6 | 316.3 | 386.4 | 616.8 | 1345.6 | 4134.2 | 8985.5 | 9415.3 |
| 65° | 278.1 | 278.1 | 279.5 | 286.0 | 304.8 | 392.9 | 849.4 | 3329.6 | 9725.8 | 11231.7 |
| 67.5° | 259.3 | 260.0 | 259.3 | 261.5 | 272.3 | 290.3 | 492.6 | 2299.6 | 10124.5 | 13113.9 |
| 70° | 239.8 | 241.2 | 237.6 | 237.6 | 246.3 | 247.0 | 308.4 | 1261.1 | 9793.7 | 14691.3 |
| 72.5° | 216.7 | 218.8 | 213.1 | 211.6 | 218.1 | 215.2 | 231.8 | 605.2 | 8408.4 | 15162.2 |
| 75° | 196.5 | 199.3 | 186.3 | 182.7 | 182.7 | 180.6 | 188.5 | 310.6 | 5457.3 | 12368.6 |
| 77.5° | 178.4 | 184.2 | 163.2 | 151.7 | 148.8 | 142.3 | 153.8 | 190.0 | 2387.0 | 5806.9 |
| 80° | 147.3 | 155.3 | 134.3 | 120.6 | 115.6 | 108.3 | 121.3 | 132.9 | 710.0 | 1348.4 |
| 82.5° | 109.8 | 113.4 | 95.3 | 85.9 | 81.6 | 76.6 | 91.0 | 92.4 | 231.1 | 477.4 |
| 85° | 70.1 | 71.5 | 58.5 | 50.6 | 48.4 | 46.2 | 57.8 | 50.6 | 88.1 | 351.0 |
| 87.5° | 24.6 | 28.2 | 22.4 | 20.2 | 21.7 | 18.1 | 26.7 | 15.2 | 24.6 | 247.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

2539.4
2540.9
2557.5
2574.8
2581.3
2587.1
2601.5
2633.3
2681.7
2733.7
2797.3
2873.1
2929.5
2992.3
3097.0
3238.6
3451.6
3583.1
3659.6
3886.4
4222.3
4724.2
5411.8
6293.0
7430.5
8833.9
10496.5
12320.2
14482.6
15711.1
13229.5
5686.3
1291.4
539.5
509.9
307.0
0.0

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