

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: P940953

Luminaire Tested: **GALN-SB4B-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940953
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-735-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22326 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

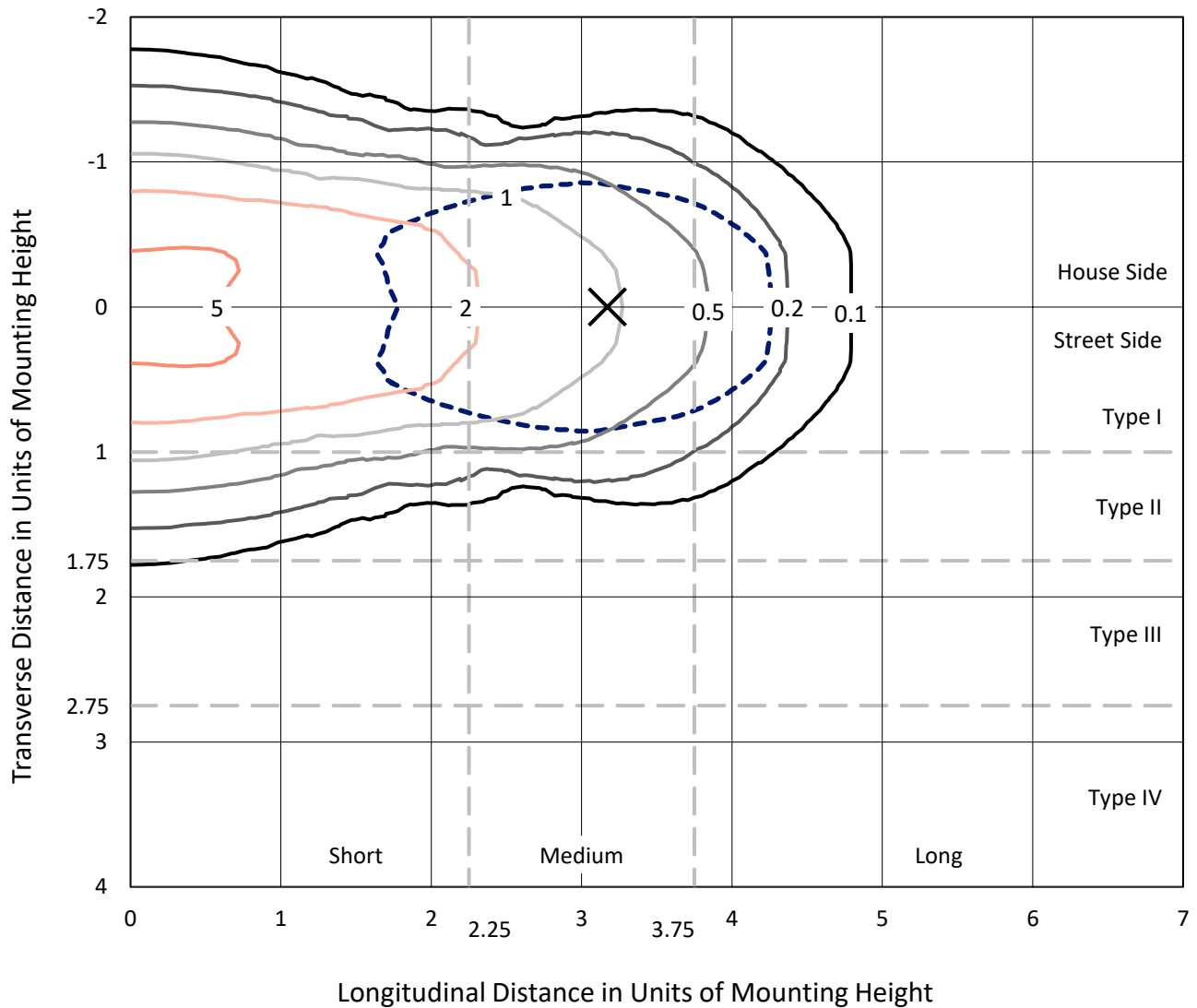
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

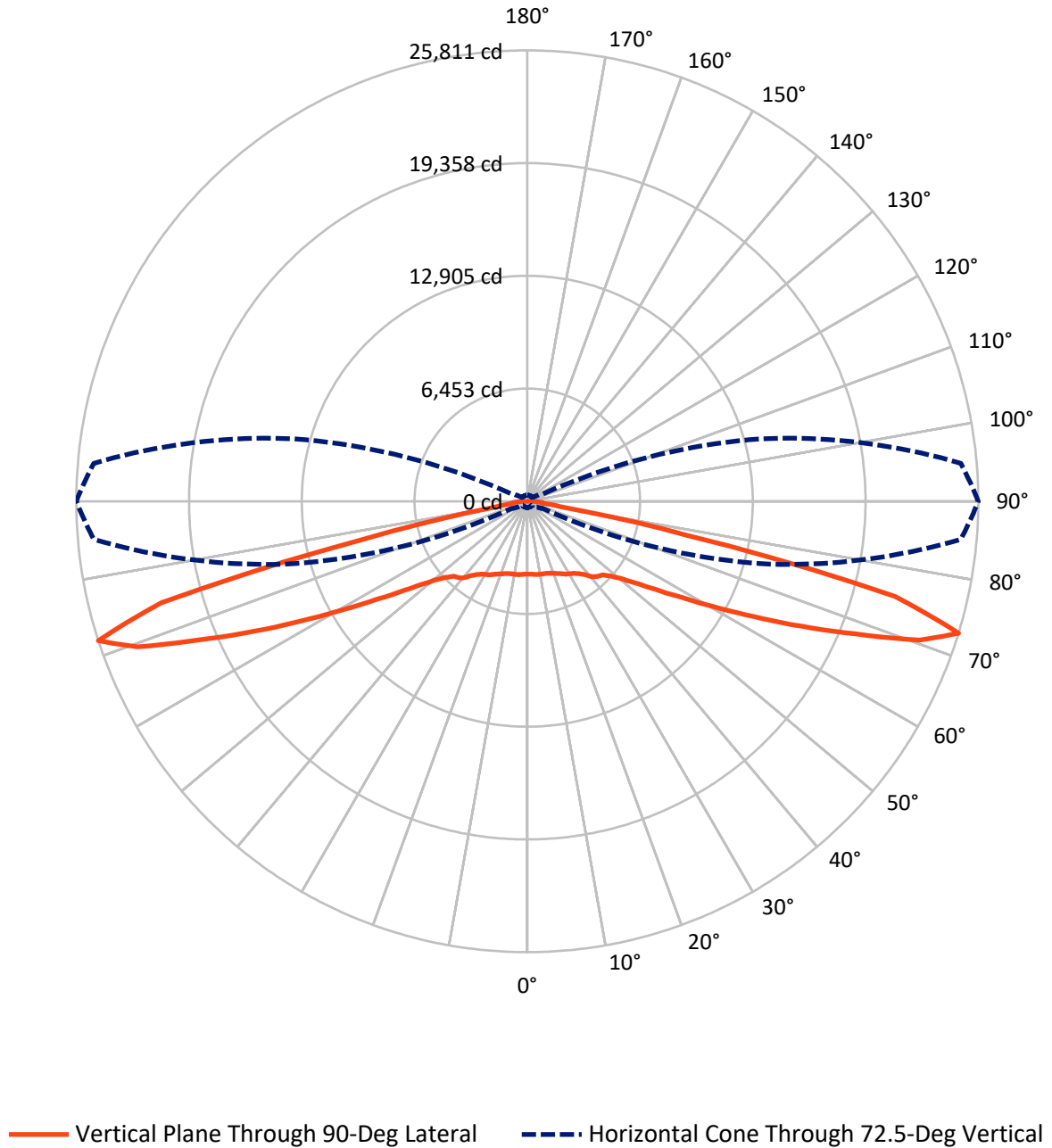
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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 | 11163.0 | 0.0 | 11163.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11163.0 | 0.0 | 11163.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 22326.0 | 0.0 | 22326.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 404.5 | 1.8 |
| 10°-20° | 1236.8 | 5.5 |
| 20°-30° | 2062.3 | 9.2 |
| 30°-40° | 2836.3 | 12.7 |
| 40°-50° | 3463.9 | 15.5 |
| 50°-60° | 4006.4 | 17.9 |
| 60°-70° | 4777.0 | 21.4 |
| 70°-80° | 3334.0 | 14.9 |
| 80°-90° | 204.8 | 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° | 22326.0 | 100.0 |
| 0°-180° | 22326.0 | 100.0 |

Coefficient of Utilization



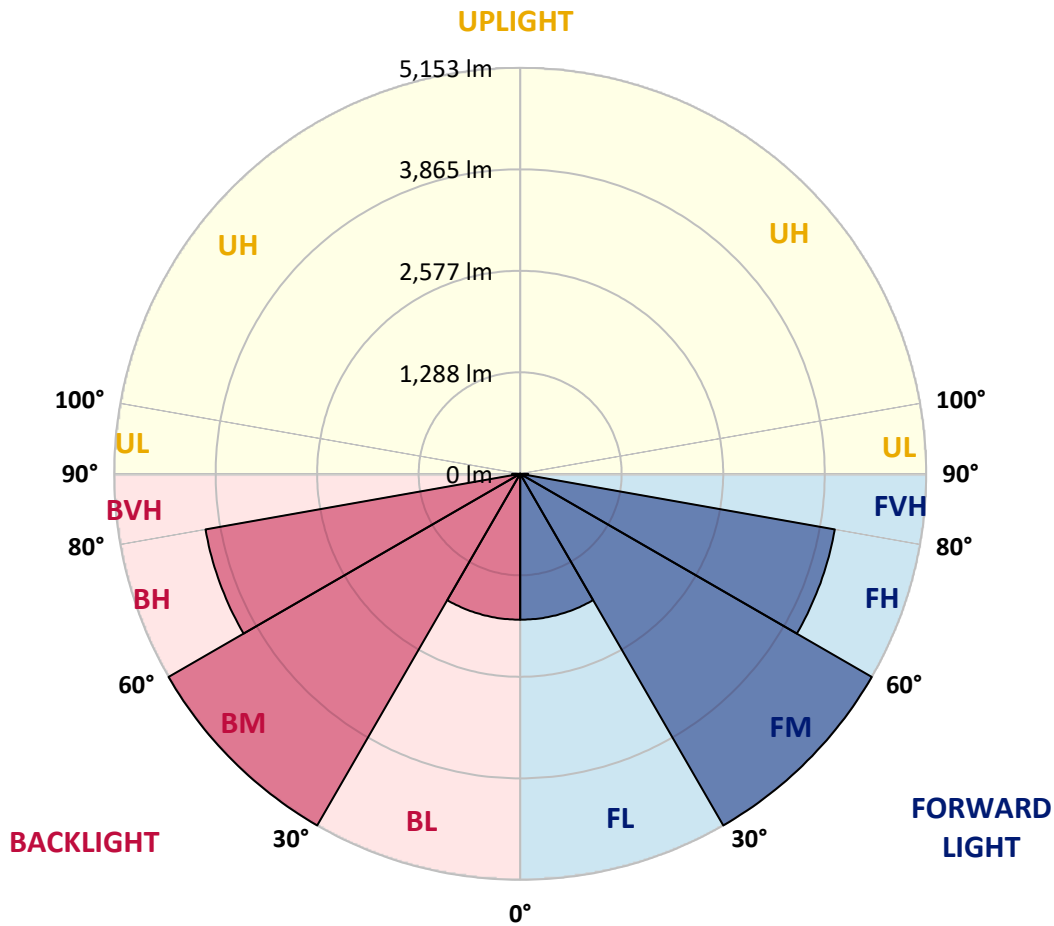
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1851.8 | 8.3 | | | |
| FM (30°-60°) | 5153.3 | 23.1 | | | |
| FH (60°-80°) | 4055.5 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 102.4 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1851.8 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 5153.3 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 4055.5 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 102.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type I Short



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CATALOG NUMBER: GALN-SB4B-735-U-T1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 4171.8 | 4171.8 | 4171.8 | 4171.8 | 4171.8 | 4171.8 | 4171.8 | 4171.8 | 4171.8 | 4171.8 |
| 2.5° | 4175.4 | 4180.2 | 4180.2 | 4176.6 | 4184.9 | 4177.8 | 4177.8 | 4174.2 | 4177.8 | 4174.2 |
| 5° | 4196.8 | 4202.7 | 4205.1 | 4203.9 | 4214.6 | 4208.6 | 4208.6 | 4203.9 | 4205.1 | 4201.5 |
| 7.5° | 4237.1 | 4245.4 | 4250.2 | 4256.1 | 4271.5 | 4264.4 | 4259.7 | 4245.4 | 4239.5 | 4230.0 |
| 10° | 4250.2 | 4259.7 | 4275.1 | 4305.9 | 4341.5 | 4342.7 | 4328.5 | 4292.9 | 4265.6 | 4244.2 |
| 12.5° | 4209.8 | 4222.9 | 4254.9 | 4317.8 | 4397.3 | 4429.3 | 4406.8 | 4347.5 | 4294.1 | 4256.1 |
| 15° | 4158.8 | 4173.0 | 4221.7 | 4316.6 | 4434.1 | 4508.8 | 4506.5 | 4428.1 | 4342.7 | 4283.4 |
| 17.5° | 4079.3 | 4093.5 | 4163.5 | 4296.4 | 4462.5 | 4585.9 | 4619.2 | 4538.5 | 4418.6 | 4339.1 |
| 20° | 3935.7 | 3948.8 | 4046.1 | 4232.4 | 4472.0 | 4667.8 | 4754.4 | 4683.2 | 4533.7 | 4425.8 |
| 22.5° | 3749.4 | 3769.6 | 3883.5 | 4122.0 | 4449.5 | 4753.2 | 4908.7 | 4860.0 | 4667.8 | 4518.3 |
| 25° | 3550.1 | 3571.5 | 3704.4 | 3986.7 | 4391.4 | 4814.9 | 5091.4 | 5060.6 | 4819.7 | 4633.4 |
| 27.5° | 3378.1 | 3400.6 | 3545.4 | 3852.7 | 4301.2 | 4838.7 | 5271.8 | 5287.2 | 5003.6 | 4760.4 |
| 30° | 3242.8 | 3264.2 | 3418.4 | 3744.7 | 4184.9 | 4814.9 | 5429.6 | 5536.4 | 5191.1 | 4870.7 |
| 32.5° | 3094.5 | 3121.8 | 3284.3 | 3613.0 | 4047.3 | 4758.0 | 5567.2 | 5805.7 | 5408.2 | 4989.4 |
| 35° | 2907.0 | 2931.9 | 3102.8 | 3432.6 | 3866.9 | 4666.6 | 5682.3 | 6104.7 | 5719.1 | 5169.7 |
| 37.5° | 2679.2 | 2702.9 | 2872.6 | 3207.2 | 3687.7 | 4538.5 | 5770.1 | 6441.7 | 6089.3 | 5429.6 |
| 40° | 2450.2 | 2472.7 | 2631.7 | 2955.7 | 3473.0 | 4374.7 | 5801.0 | 6771.5 | 6514.1 | 5786.7 |
| 42.5° | 2240.2 | 2260.3 | 2406.3 | 2707.7 | 3232.1 | 4165.9 | 5760.6 | 7058.7 | 6894.9 | 6035.9 |
| 45° | 2046.8 | 2064.6 | 2193.9 | 2475.1 | 2981.8 | 3912.0 | 5639.6 | 7367.2 | 7348.2 | 6213.9 |
| 47.5° | 1826.1 | 1843.9 | 1977.9 | 2249.7 | 2731.4 | 3614.2 | 5434.3 | 7670.9 | 7978.2 | 6617.3 |
| 50° | 1556.7 | 1572.2 | 1709.8 | 1989.8 | 2471.5 | 3297.4 | 5149.6 | 7909.4 | 8773.2 | 7228.4 |
| 52.5° | 1237.6 | 1254.2 | 1388.2 | 1668.3 | 2163.0 | 2956.8 | 4774.6 | 8064.9 | 9691.6 | 8120.6 |
| 55° | 920.7 | 932.6 | 1048.9 | 1300.4 | 1781.0 | 2568.8 | 4304.7 | 8108.8 | 10733.4 | 9340.4 |
| 57.5° | 668.0 | 675.1 | 749.9 | 937.4 | 1350.3 | 2083.6 | 3734.0 | 7994.9 | 11973.3 | 10904.2 |
| 60° | 541.1 | 543.4 | 566.0 | 649.0 | 938.5 | 1535.4 | 3044.6 | 7603.3 | 13318.8 | 12920.2 |
| 62.5° | 491.2 | 491.2 | 497.2 | 519.7 | 634.8 | 1013.3 | 2210.5 | 6791.7 | 14761.7 | 15467.6 |
| 65° | 456.8 | 456.8 | 459.2 | 469.9 | 500.7 | 645.5 | 1395.4 | 5469.9 | 15977.8 | 18451.8 |
| 67.5° | 426.0 | 427.2 | 426.0 | 429.5 | 447.3 | 477.0 | 809.2 | 3777.9 | 16632.8 | 21543.9 |
| 70° | 393.9 | 396.3 | 390.4 | 390.4 | 404.6 | 405.8 | 506.6 | 2071.7 | 16089.4 | 24135.3 |
| 72.5° | 356.0 | 359.5 | 350.0 | 347.7 | 358.3 | 353.6 | 380.9 | 994.3 | 13813.6 | 24908.9 |
| 75° | 322.7 | 327.5 | 306.1 | 300.2 | 300.2 | 296.6 | 309.7 | 510.2 | 8965.4 | 20319.4 |
| 77.5° | 293.1 | 302.6 | 268.2 | 249.2 | 244.4 | 233.7 | 252.7 | 312.1 | 3921.5 | 9539.7 |
| 80° | 242.1 | 255.1 | 220.7 | 198.2 | 189.8 | 178.0 | 199.3 | 218.3 | 1166.4 | 2215.3 |
| 82.5° | 180.4 | 186.3 | 156.6 | 141.2 | 134.1 | 125.8 | 149.5 | 151.9 | 379.7 | 784.3 |
| 85° | 115.1 | 117.5 | 96.1 | 83.1 | 79.5 | 75.9 | 94.9 | 83.1 | 144.8 | 576.7 |
| 87.5° | 40.3 | 46.3 | 36.8 | 33.2 | 35.6 | 29.7 | 43.9 | 24.9 | 40.3 | 407.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

4171.8
4174.2
4201.5
4230.0
4240.7
4250.2
4273.9
4326.1
4405.6
4491.0
4595.4
4720.0
4812.6
4915.8
5087.9
5320.4
5670.4
5886.4
6012.2
6384.7
6936.5
7761.1
8890.7
10338.3
12207.0
14512.5
17243.9
20239.9
23792.4
25810.6
21733.7
9341.6
2121.5
886.3
837.7
504.3
0.0

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