

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: P941923

Luminaire Tested: **GALN-SB5C-940-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941923
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-SB5C-940-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27119 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

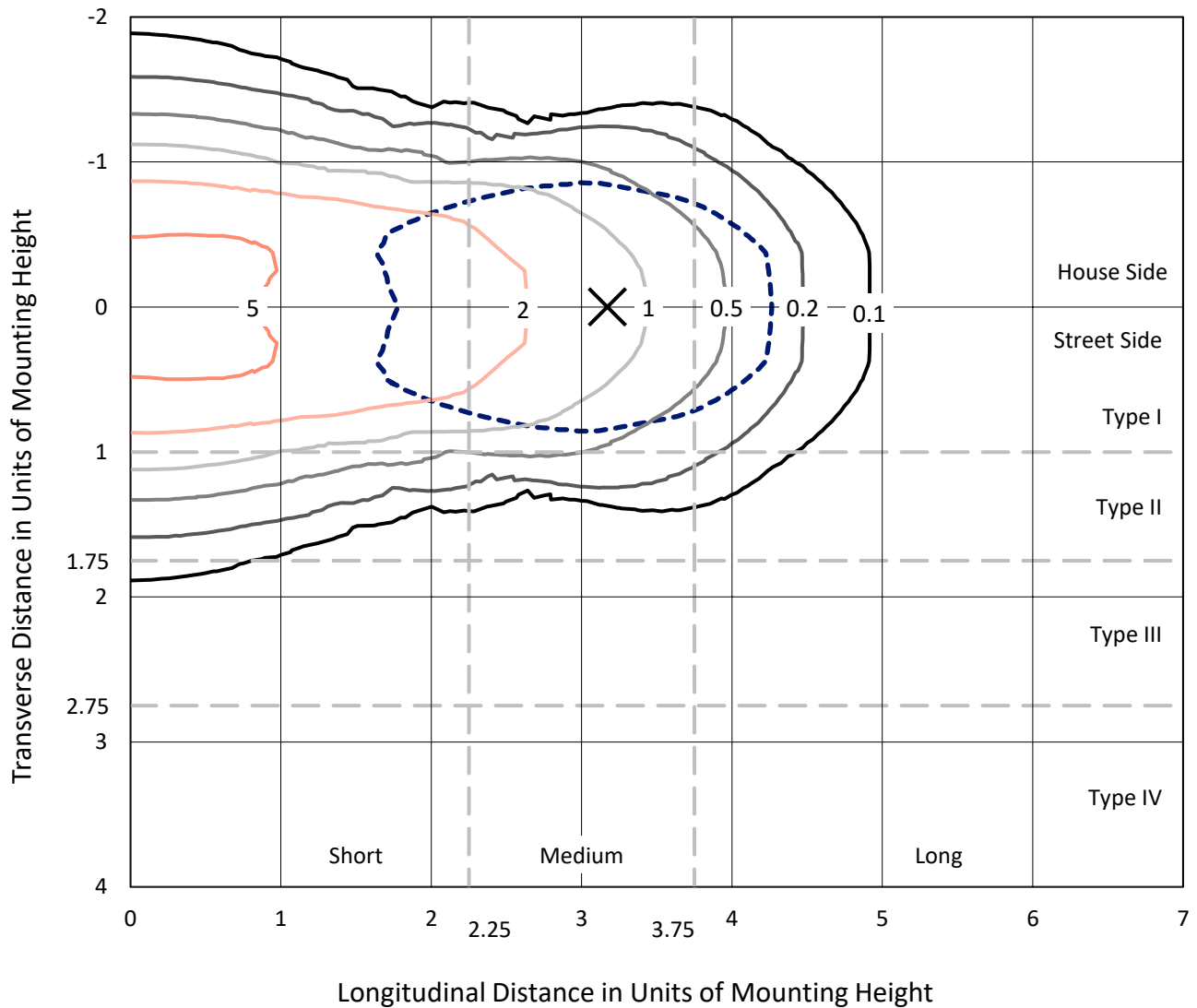
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

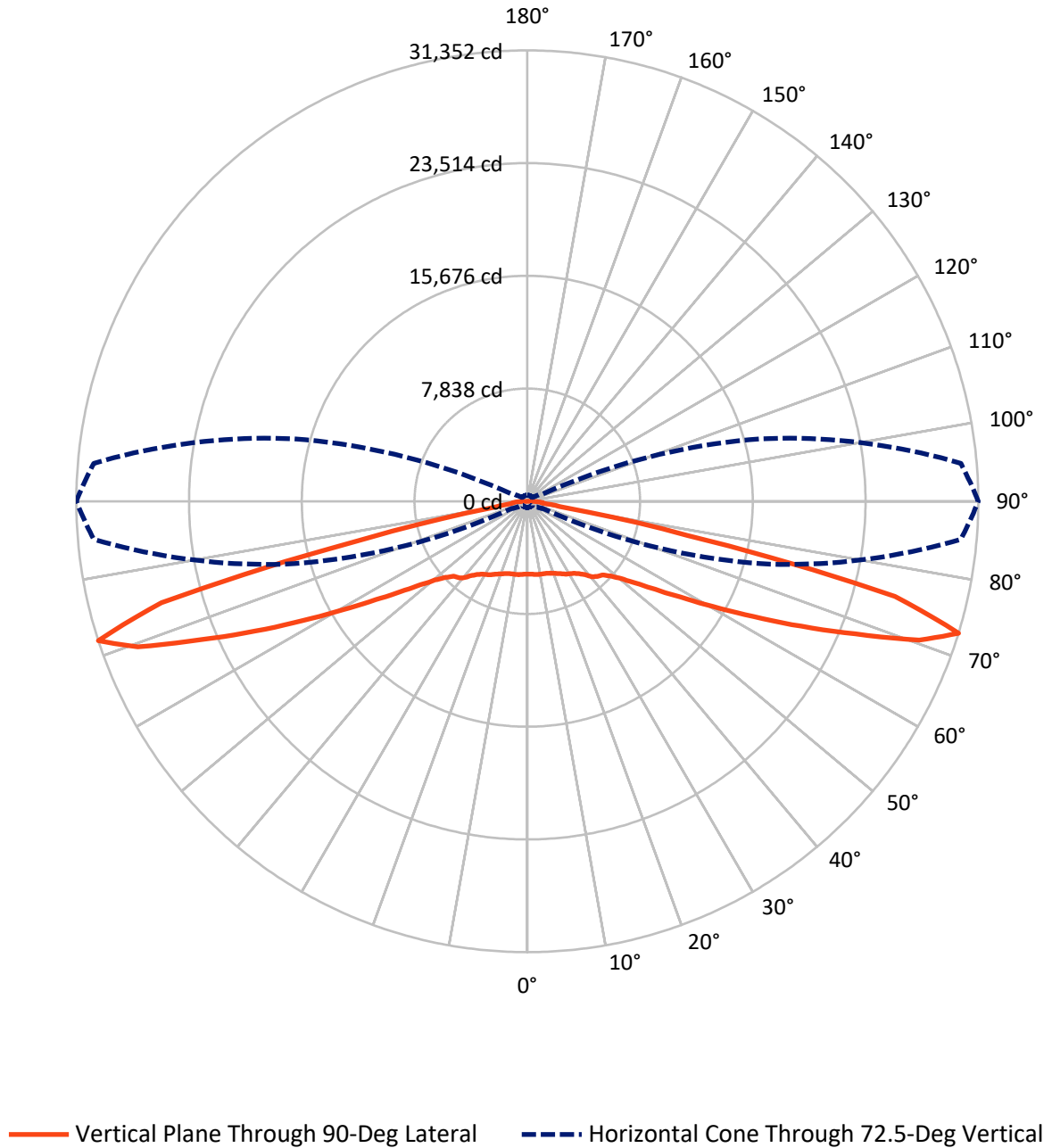
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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 | 13559.5 | 0.0 | 13559.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13559.5 | 0.0 | 13559.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27119.0 | 0.0 | 27119.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 491.4 | 1.8 |
| 10°-20° | 1502.4 | 5.5 |
| 20°-30° | 2505.1 | 9.2 |
| 30°-40° | 3445.2 | 12.7 |
| 40°-50° | 4207.6 | 15.5 |
| 50°-60° | 4866.5 | 17.9 |
| 60°-70° | 5802.5 | 21.4 |
| 70°-80° | 4049.8 | 14.9 |
| 80°-90° | 248.7 | 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° | 27119.0 | 100.0 |
| 0°-180° | 27119.0 | 100.0 |



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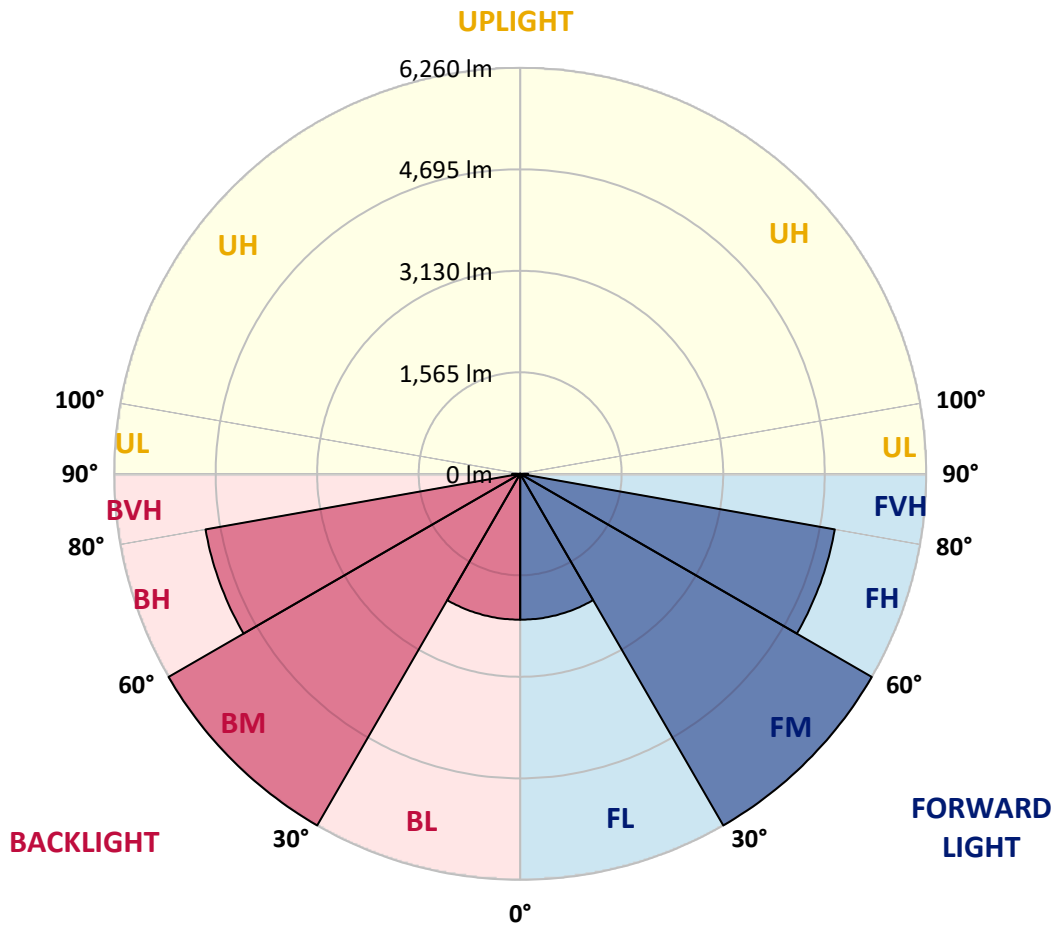
CATALOG NUMBER: GALN-SB5C-940-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2249.4 | 8.3 | | | |
| FM (30°-60°) | 6259.6 | 23.1 | | | |
| FH (60°-80°) | 4926.1 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 124.4 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2249.4 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 6259.6 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 4926.1 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 124.4 | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 5067.5 | 5067.5 | 5067.5 | 5067.5 | 5067.5 | 5067.5 | 5067.5 | 5067.5 | 5067.5 | 5067.5 |
| 2.5° | 5071.8 | 5077.6 | 5077.6 | 5073.2 | 5083.3 | 5074.7 | 5074.7 | 5070.4 | 5074.7 | 5070.4 |
| 5° | 5097.7 | 5104.9 | 5107.8 | 5106.4 | 5119.4 | 5112.2 | 5112.2 | 5106.4 | 5107.8 | 5103.5 |
| 7.5° | 5146.7 | 5156.8 | 5162.6 | 5169.8 | 5188.5 | 5179.9 | 5174.1 | 5156.8 | 5149.6 | 5138.1 |
| 10° | 5162.6 | 5174.1 | 5192.9 | 5230.3 | 5273.6 | 5275.0 | 5257.7 | 5214.5 | 5181.3 | 5155.4 |
| 12.5° | 5113.6 | 5129.4 | 5168.4 | 5244.7 | 5341.3 | 5380.2 | 5352.8 | 5280.8 | 5215.9 | 5169.8 |
| 15° | 5051.6 | 5068.9 | 5128.0 | 5243.3 | 5386.0 | 5476.8 | 5473.9 | 5378.8 | 5275.0 | 5202.9 |
| 17.5° | 4955.1 | 4972.3 | 5057.4 | 5218.8 | 5420.6 | 5570.5 | 5610.8 | 5512.8 | 5367.3 | 5270.7 |
| 20° | 4780.7 | 4796.5 | 4914.7 | 5141.0 | 5432.1 | 5669.9 | 5775.1 | 5688.7 | 5507.1 | 5375.9 |
| 22.5° | 4554.4 | 4578.9 | 4717.2 | 5006.9 | 5404.7 | 5773.7 | 5962.5 | 5903.4 | 5669.9 | 5488.3 |
| 25° | 4312.3 | 4338.2 | 4499.6 | 4842.6 | 5334.1 | 5848.6 | 6184.4 | 6147.0 | 5854.4 | 5628.1 |
| 27.5° | 4103.3 | 4130.7 | 4306.5 | 4679.8 | 5224.6 | 5877.5 | 6403.5 | 6422.3 | 6077.8 | 5782.3 |
| 30° | 3939.0 | 3964.9 | 4152.3 | 4548.6 | 5083.3 | 5848.6 | 6595.2 | 6724.9 | 6305.5 | 5916.4 |
| 32.5° | 3758.8 | 3792.0 | 3989.4 | 4388.6 | 4916.1 | 5779.5 | 6762.4 | 7052.1 | 6569.3 | 6060.5 |
| 35° | 3531.1 | 3561.4 | 3768.9 | 4169.6 | 4697.1 | 5668.5 | 6902.2 | 7415.3 | 6946.9 | 6279.6 |
| 37.5° | 3254.4 | 3283.2 | 3489.3 | 3895.7 | 4479.4 | 5512.8 | 7008.8 | 7824.6 | 7396.5 | 6595.2 |
| 40° | 2976.2 | 3003.6 | 3196.7 | 3590.2 | 4218.6 | 5313.9 | 7046.3 | 8225.3 | 7912.5 | 7029.0 |
| 42.5° | 2721.1 | 2745.6 | 2922.9 | 3289.0 | 3926.0 | 5060.3 | 6997.3 | 8574.1 | 8375.2 | 7331.7 |
| 45° | 2486.2 | 2507.8 | 2664.9 | 3006.5 | 3621.9 | 4751.8 | 6850.3 | 8948.8 | 8925.7 | 7547.9 |
| 47.5° | 2218.1 | 2239.7 | 2402.6 | 2732.6 | 3317.8 | 4390.1 | 6601.0 | 9317.7 | 9691.0 | 8037.9 |
| 50° | 1890.9 | 1909.7 | 2076.9 | 2417.0 | 3002.1 | 4005.3 | 6255.1 | 9607.4 | 10656.7 | 8780.2 |
| 52.5° | 1503.2 | 1523.4 | 1686.3 | 2026.4 | 2627.4 | 3591.6 | 5799.6 | 9796.2 | 11772.2 | 9864.0 |
| 55° | 1118.4 | 1132.8 | 1274.1 | 1579.6 | 2163.3 | 3120.3 | 5228.9 | 9849.6 | 13037.6 | 11345.6 |
| 57.5° | 811.4 | 820.1 | 910.9 | 1138.6 | 1640.2 | 2530.9 | 4535.6 | 9711.2 | 14543.8 | 13245.2 |
| 60° | 657.2 | 660.1 | 687.5 | 788.4 | 1140.0 | 1865.0 | 3698.3 | 9235.6 | 16178.1 | 15693.9 |
| 62.5° | 596.7 | 596.7 | 603.9 | 631.3 | 771.1 | 1230.8 | 2685.1 | 8249.8 | 17930.7 | 18788.3 |
| 65° | 554.9 | 554.9 | 557.8 | 570.7 | 608.2 | 784.0 | 1694.9 | 6644.2 | 19408.0 | 22413.0 |
| 67.5° | 517.4 | 518.9 | 517.4 | 521.7 | 543.4 | 579.4 | 982.9 | 4589.0 | 20203.6 | 26169.0 |
| 70° | 478.5 | 481.4 | 474.2 | 474.2 | 491.5 | 492.9 | 615.4 | 2516.4 | 19543.5 | 29316.7 |
| 72.5° | 432.4 | 436.7 | 425.2 | 422.3 | 435.3 | 429.5 | 462.6 | 1207.8 | 16779.2 | 30256.4 |
| 75° | 392.0 | 397.8 | 371.8 | 364.6 | 364.6 | 360.3 | 376.2 | 619.7 | 10890.2 | 24681.6 |
| 77.5° | 356.0 | 367.5 | 325.7 | 302.7 | 296.9 | 283.9 | 307.0 | 379.1 | 4763.4 | 11587.7 |
| 80° | 294.0 | 309.9 | 268.1 | 240.7 | 230.6 | 216.2 | 242.1 | 265.2 | 1416.8 | 2690.8 |
| 82.5° | 219.1 | 226.3 | 190.2 | 171.5 | 162.9 | 152.8 | 181.6 | 184.5 | 461.2 | 952.7 |
| 85° | 139.8 | 142.7 | 116.7 | 100.9 | 96.6 | 92.2 | 115.3 | 100.9 | 175.8 | 700.5 |
| 87.5° | 49.0 | 56.2 | 44.7 | 40.4 | 43.2 | 36.0 | 53.3 | 30.3 | 49.0 | 494.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

5067.5
5070.4
5103.5
5138.1
5151.1
5162.6
5191.4
5254.8
5351.4
5455.2
5582.0
5733.3
5845.8
5971.1
6180.1
6462.6
6887.8
7150.1
7302.9
7755.4
8425.6
9427.3
10799.4
12557.7
14827.7
17628.1
20945.8
24585.0
28900.2
31351.7
26399.6
11347.0
2577.0
1076.6
1017.5
612.5
0.0

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