

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: P944593

Luminaire Tested: **GALN-SB9C-840-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944593
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-SB9C-840-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64547 lumens
Efficiency: N/A
Efficacy: 143.5 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

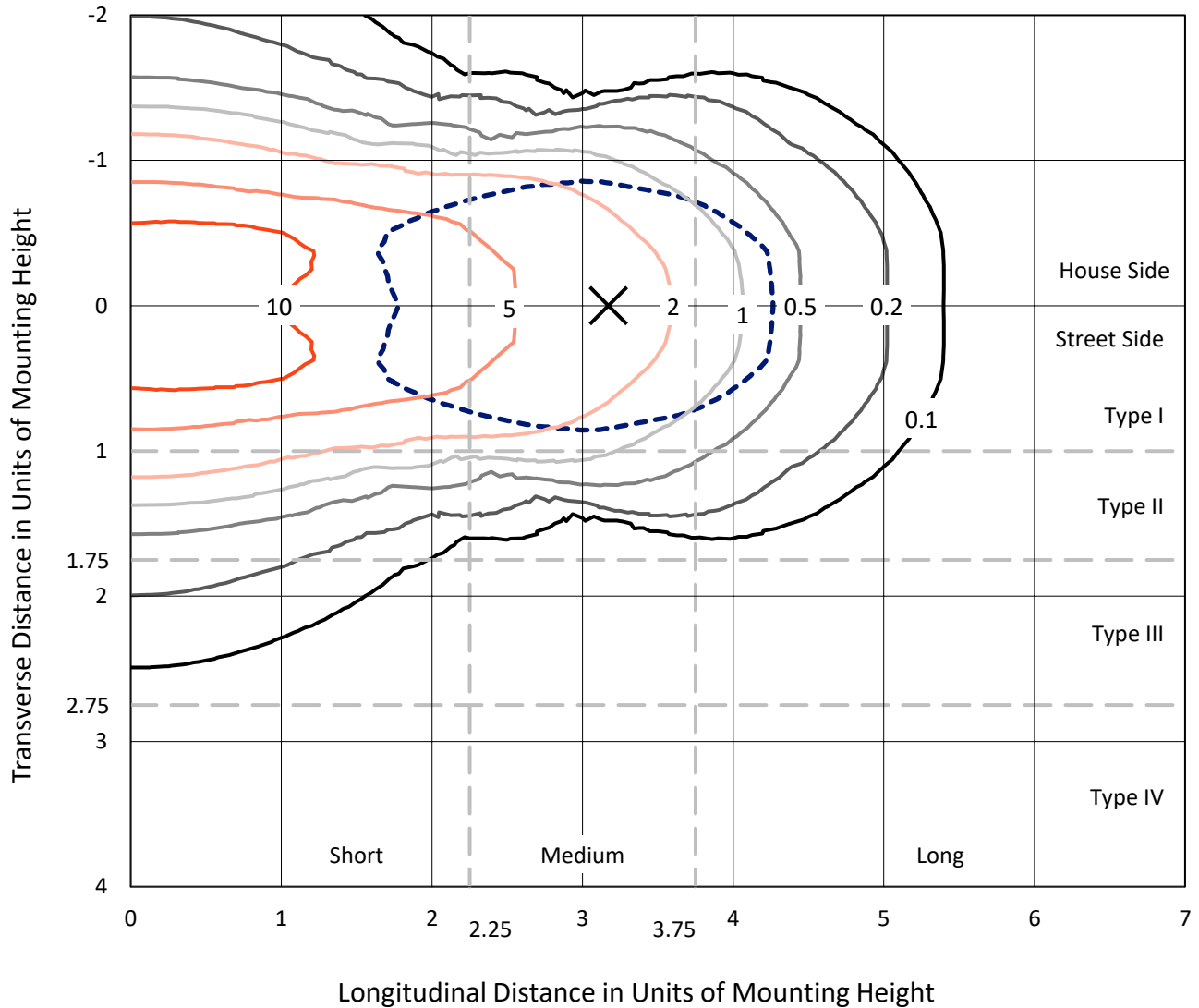
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

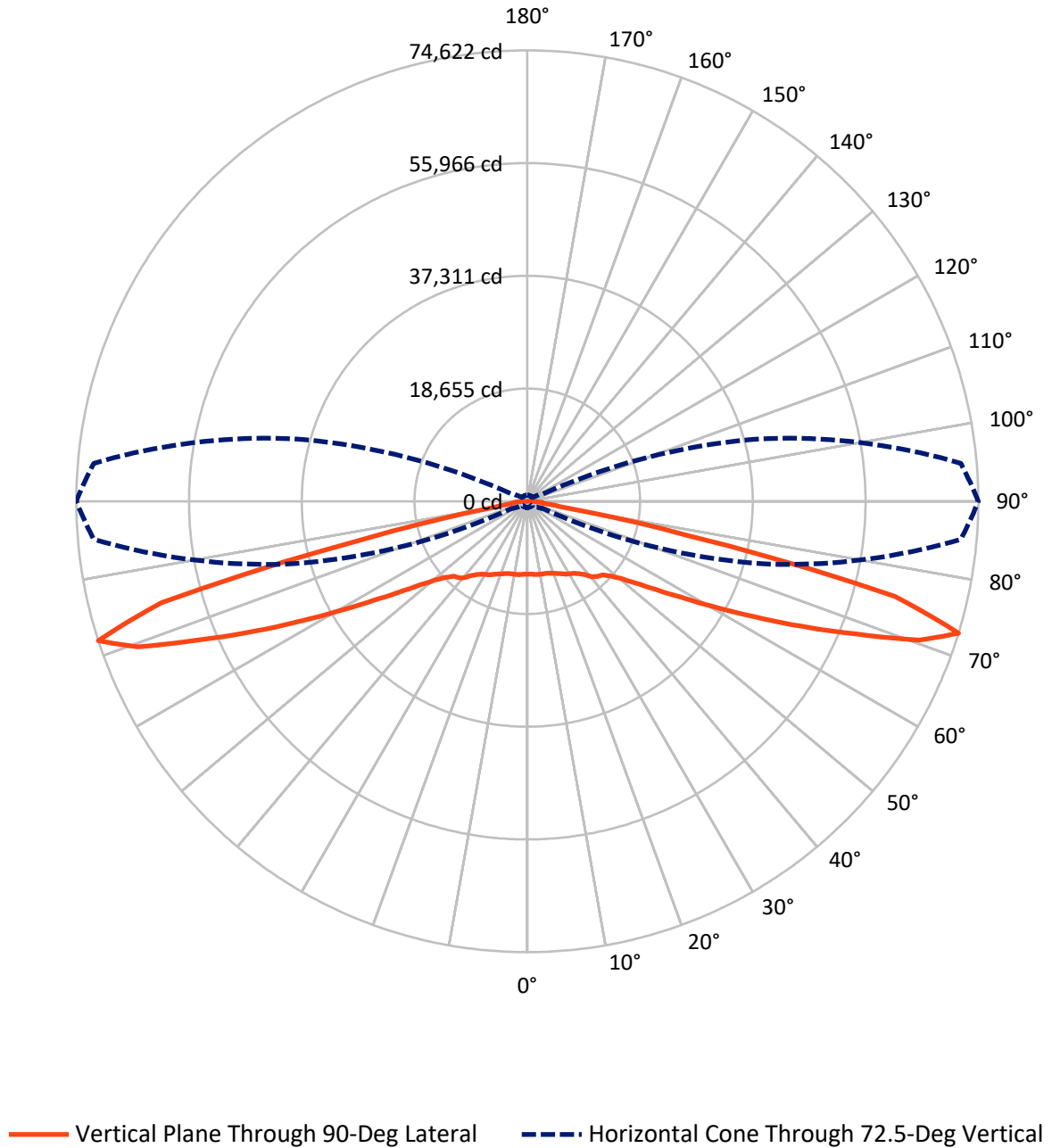
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 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 | 32273.5 | 0.0 | 32273.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 32273.5 | 0.0 | 32273.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 64547.0 | 0.0 | 64547.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1169.5 | 1.8 |
| 10°-20° | 3575.8 | 5.5 |
| 20°-30° | 5962.4 | 9.2 |
| 30°-40° | 8200.1 | 12.7 |
| 40°-50° | 10014.6 | 15.5 |
| 50°-60° | 11582.9 | 17.9 |
| 60°-70° | 13810.7 | 21.4 |
| 70°-80° | 9639.0 | 14.9 |
| 80°-90° | 592.0 | 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° | 64547.0 | 100.0 |
| 0°-180° | 64547.0 | 100.0 |

Coefficient of Utilization



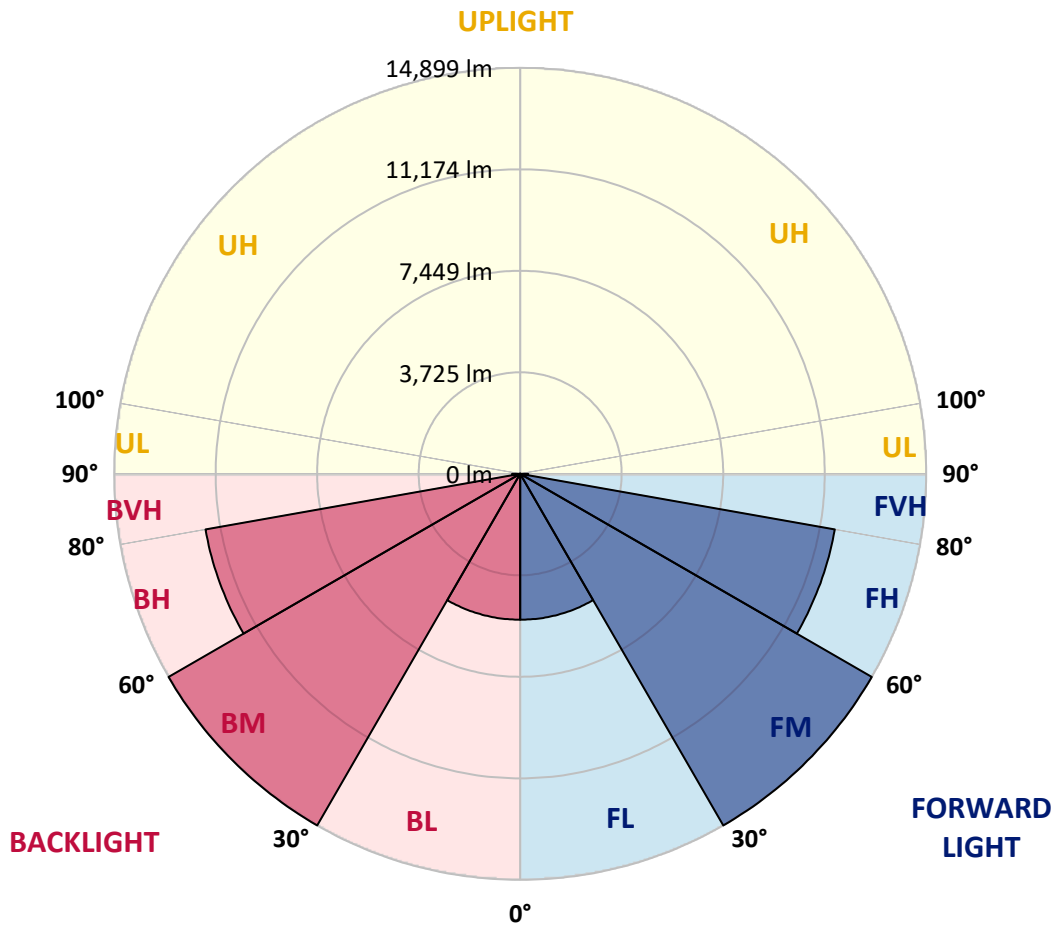
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 5353.8 | 8.3 | | | |
| FM (30°-60°) | 14898.8 | 23.1 | | | |
| FH (60°-80°) | 11724.9 | 18.2 | | | G4/12000 |
| FVH (80°-90°) | 296.0 | 0.5 | | | G3/500 |
| BL (0°-30°) | 5353.8 | 8.3 | B5 | | |
| BM (30°-60°) | 14898.8 | 23.1 | B5 | | |
| BH (60°-80°) | 11724.9 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 296.0 | 0.5 | | | G3/500 |
| 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° | 12061.3 | 12061.3 | 12061.3 | 12061.3 | 12061.3 | 12061.3 | 12061.3 | 12061.3 | 12061.3 | 12061.3 |
| 2.5° | 12071.6 | 12085.3 | 12085.3 | 12075.0 | 12099.0 | 12078.4 | 12078.4 | 12068.1 | 12078.4 | 12068.1 |
| 5° | 12133.3 | 12150.5 | 12157.3 | 12153.9 | 12184.8 | 12167.6 | 12167.6 | 12153.9 | 12157.3 | 12147.0 |
| 7.5° | 12250.0 | 12274.0 | 12287.7 | 12304.8 | 12349.4 | 12328.9 | 12315.1 | 12274.0 | 12256.8 | 12229.4 |
| 10° | 12287.7 | 12315.1 | 12359.7 | 12448.9 | 12551.8 | 12555.3 | 12514.1 | 12411.2 | 12332.3 | 12270.5 |
| 12.5° | 12171.1 | 12208.8 | 12301.4 | 12483.2 | 12713.1 | 12805.7 | 12740.5 | 12569.0 | 12414.6 | 12304.8 |
| 15° | 12023.6 | 12064.7 | 12205.4 | 12479.8 | 12819.4 | 13035.5 | 13028.7 | 12802.3 | 12555.3 | 12383.7 |
| 17.5° | 11793.7 | 11834.9 | 12037.3 | 12421.5 | 12901.7 | 13258.5 | 13354.5 | 13121.3 | 12774.8 | 12545.0 |
| 20° | 11378.6 | 11416.4 | 11697.7 | 12236.2 | 12929.2 | 13495.2 | 13745.6 | 13539.8 | 13107.6 | 12795.4 |
| 22.5° | 10840.1 | 10898.4 | 11227.7 | 11917.2 | 12864.0 | 13742.2 | 14191.6 | 14050.9 | 13495.2 | 13063.0 |
| 25° | 10263.8 | 10325.5 | 10709.7 | 11526.1 | 12695.9 | 13920.6 | 14719.8 | 14630.7 | 13934.3 | 13395.7 |
| 27.5° | 9766.4 | 9831.5 | 10250.0 | 11138.5 | 12435.2 | 13989.2 | 15241.3 | 15285.9 | 14466.0 | 13762.8 |
| 30° | 9375.3 | 9437.0 | 9883.0 | 10826.3 | 12099.0 | 13920.6 | 15697.5 | 16006.2 | 15008.0 | 14081.8 |
| 32.5° | 8946.5 | 9025.4 | 9495.3 | 10445.6 | 11701.1 | 13755.9 | 16095.4 | 16784.9 | 15635.8 | 14424.8 |
| 35° | 8404.5 | 8476.5 | 8970.5 | 9924.1 | 11179.7 | 13491.8 | 16428.2 | 17649.4 | 16534.5 | 14946.3 |
| 37.5° | 7745.8 | 7814.5 | 8305.0 | 9272.4 | 10661.7 | 13121.3 | 16682.0 | 18623.6 | 17604.8 | 15697.5 |
| 40° | 7083.8 | 7149.0 | 7608.6 | 8545.1 | 10040.8 | 12647.9 | 16771.2 | 19577.3 | 18832.9 | 16730.1 |
| 42.5° | 6476.6 | 6534.9 | 6956.9 | 7828.2 | 9344.4 | 12044.1 | 16654.6 | 20407.5 | 19934.1 | 17450.4 |
| 45° | 5917.4 | 5968.9 | 6342.8 | 7155.8 | 8620.6 | 11310.0 | 16304.7 | 21299.4 | 21244.5 | 17965.0 |
| 47.5° | 5279.4 | 5330.8 | 5718.5 | 6504.0 | 7896.8 | 10449.0 | 15711.2 | 22177.5 | 23066.0 | 19131.3 |
| 50° | 4500.7 | 4545.3 | 4943.2 | 5752.8 | 7145.5 | 9533.1 | 14887.9 | 22867.1 | 25364.4 | 20898.0 |
| 52.5° | 3577.9 | 3625.9 | 4013.6 | 4823.1 | 6253.6 | 8548.6 | 13803.9 | 23316.4 | 28019.5 | 23477.7 |
| 55° | 2662.0 | 2696.3 | 3032.5 | 3759.7 | 5149.0 | 7426.8 | 12445.5 | 23443.4 | 31031.4 | 27004.1 |
| 57.5° | 1931.3 | 1951.9 | 2168.0 | 2710.0 | 3903.8 | 6023.8 | 10795.5 | 23114.0 | 34616.2 | 31525.4 |
| 60° | 1564.3 | 1571.1 | 1636.3 | 1876.4 | 2713.4 | 4438.9 | 8802.4 | 21982.0 | 38506.2 | 37353.6 |
| 62.5° | 1420.2 | 1420.2 | 1437.3 | 1502.5 | 1835.3 | 2929.6 | 6390.8 | 19635.6 | 42677.6 | 44718.7 |
| 65° | 1320.7 | 1320.7 | 1327.6 | 1358.4 | 1447.6 | 1866.1 | 4034.2 | 15814.1 | 46193.8 | 53346.2 |
| 67.5° | 1231.5 | 1234.9 | 1231.5 | 1241.8 | 1293.3 | 1379.0 | 2339.5 | 10922.4 | 48087.4 | 62285.8 |
| 70° | 1138.9 | 1145.8 | 1128.6 | 1128.6 | 1169.8 | 1173.2 | 1464.8 | 5989.5 | 46516.2 | 69777.8 |
| 72.5° | 1029.1 | 1039.4 | 1012.0 | 1005.1 | 1036.0 | 1022.3 | 1101.2 | 2874.7 | 39936.7 | 72014.4 |
| 75° | 933.1 | 946.8 | 885.0 | 867.9 | 867.9 | 857.6 | 895.3 | 1475.1 | 25920.1 | 58745.6 |
| 77.5° | 847.3 | 874.8 | 775.3 | 720.4 | 706.7 | 675.8 | 730.7 | 902.2 | 11337.5 | 27580.4 |
| 80° | 699.8 | 737.5 | 638.1 | 572.9 | 548.9 | 514.6 | 576.3 | 631.2 | 3372.1 | 6404.6 |
| 82.5° | 521.4 | 538.6 | 452.8 | 408.2 | 387.6 | 363.6 | 432.2 | 439.1 | 1097.7 | 2267.5 |
| 85° | 332.7 | 339.6 | 277.9 | 240.1 | 229.8 | 219.5 | 274.4 | 240.1 | 418.5 | 1667.2 |
| 87.5° | 116.6 | 133.8 | 106.3 | 96.1 | 102.9 | 85.8 | 126.9 | 72.0 | 116.6 | 1176.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

12061.3
12068.1
12147.0
12229.4
12260.3
12287.7
12356.3
12507.2
12737.1
12984.1
13285.9
13646.1
13913.7
14212.1
14709.6
15381.9
16393.9
17018.2
17381.8
18459.0
20054.1
22438.2
25704.0
29889.1
35292.0
41957.2
49854.0
58515.8
68786.4
74621.5
62834.6
27007.5
6133.6
2562.5
2421.9
1457.9
0.0

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