

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: P943533

Luminaire Tested: **GALN-SB8A-760-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943533
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-SB8A-760-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37964 lumens
Efficiency: N/A
Efficacy: 167.2 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

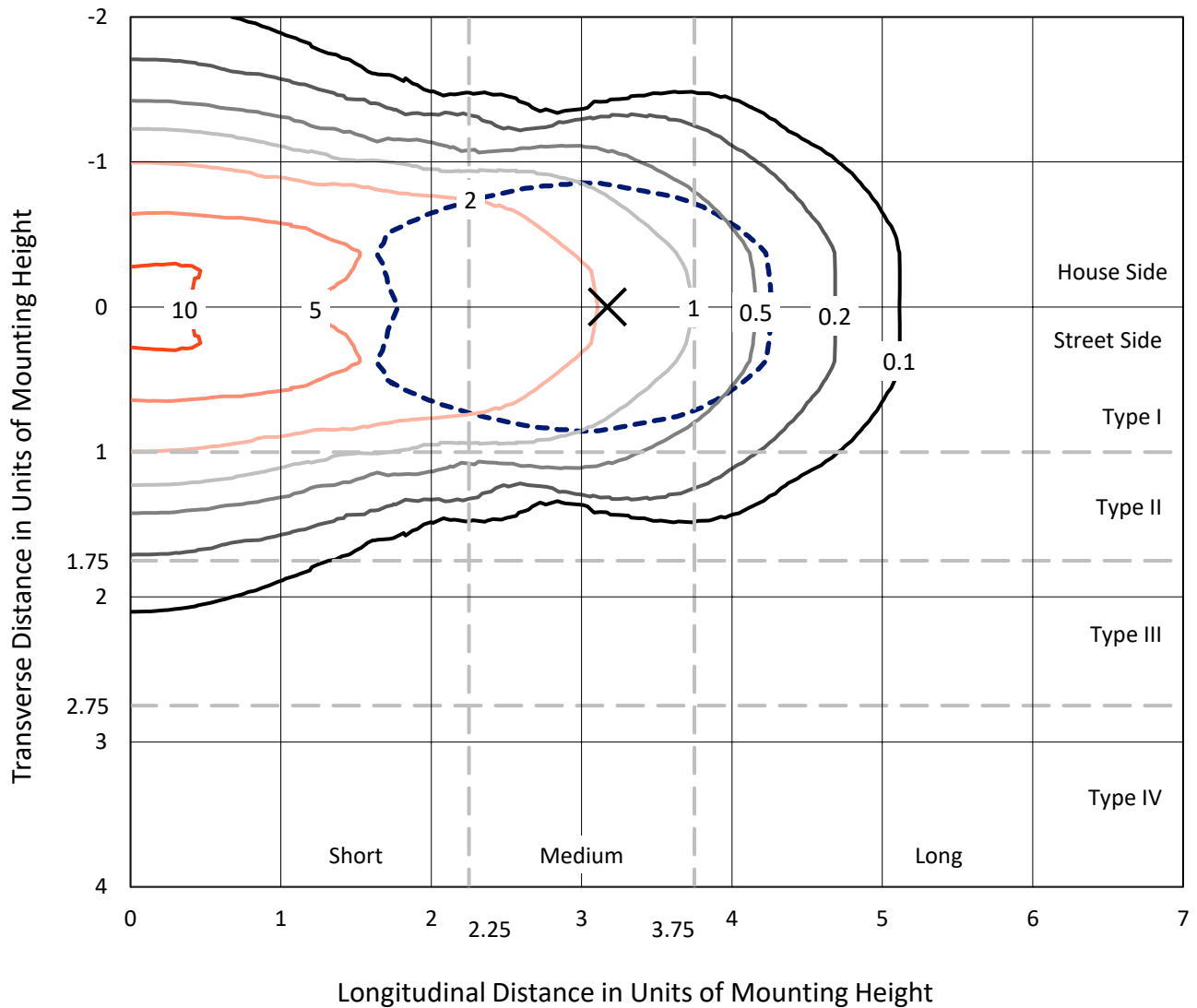
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

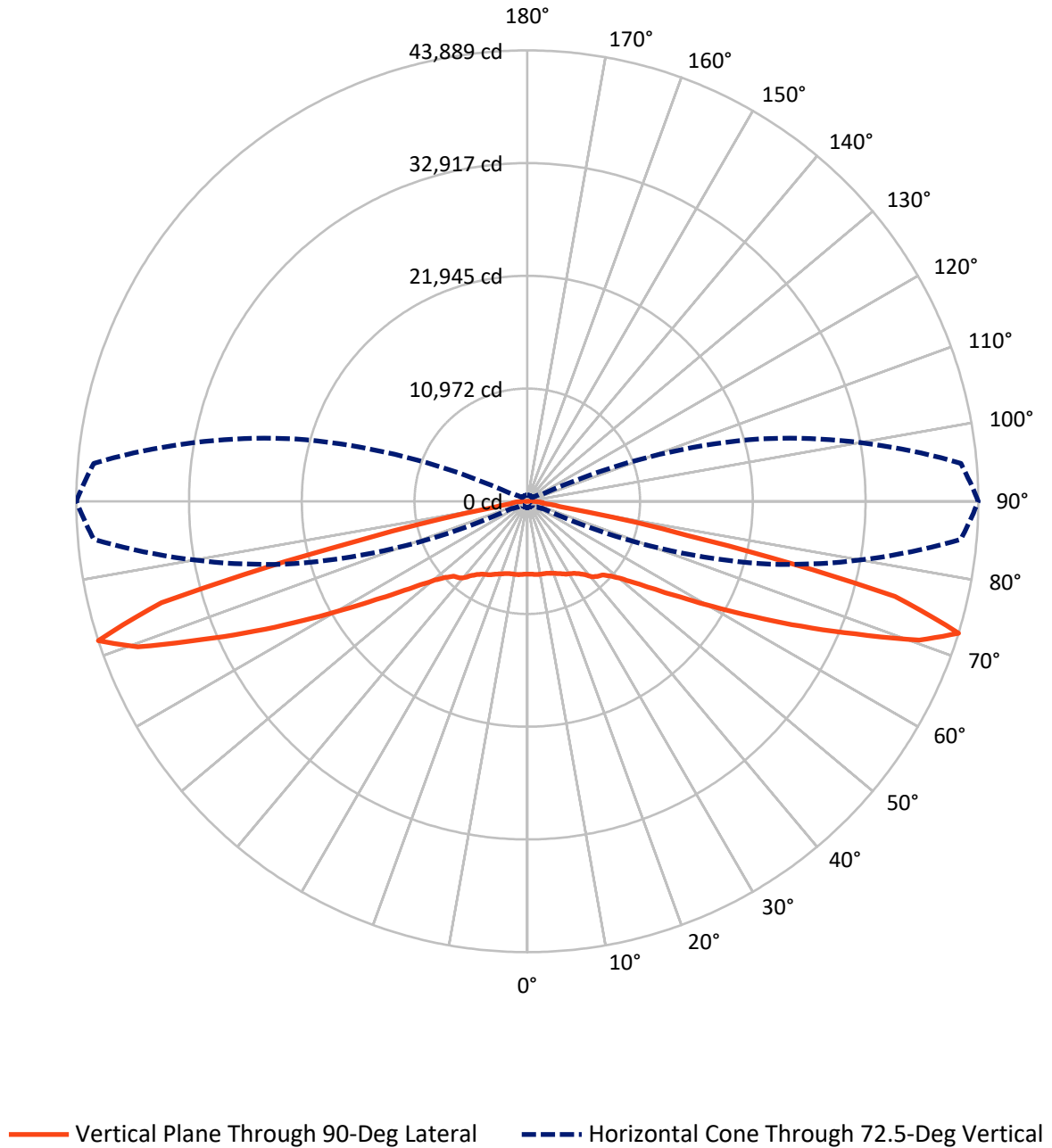
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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 | 18982.0 | 0.0 | 18982.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18982.0 | 0.0 | 18982.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 37964.0 | 0.0 | 37964.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 687.8 | 1.8 |
| 10°-20° | 2103.2 | 5.5 |
| 20°-30° | 3506.8 | 9.2 |
| 30°-40° | 4823.0 | 12.7 |
| 40°-50° | 5890.2 | 15.5 |
| 50°-60° | 6812.6 | 17.9 |
| 60°-70° | 8122.9 | 21.4 |
| 70°-80° | 5669.3 | 14.9 |
| 80°-90° | 348.2 | 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° | 37964.0 | 100.0 |
| 0°-180° | 37964.0 | 100.0 |

Coefficient of Utilization



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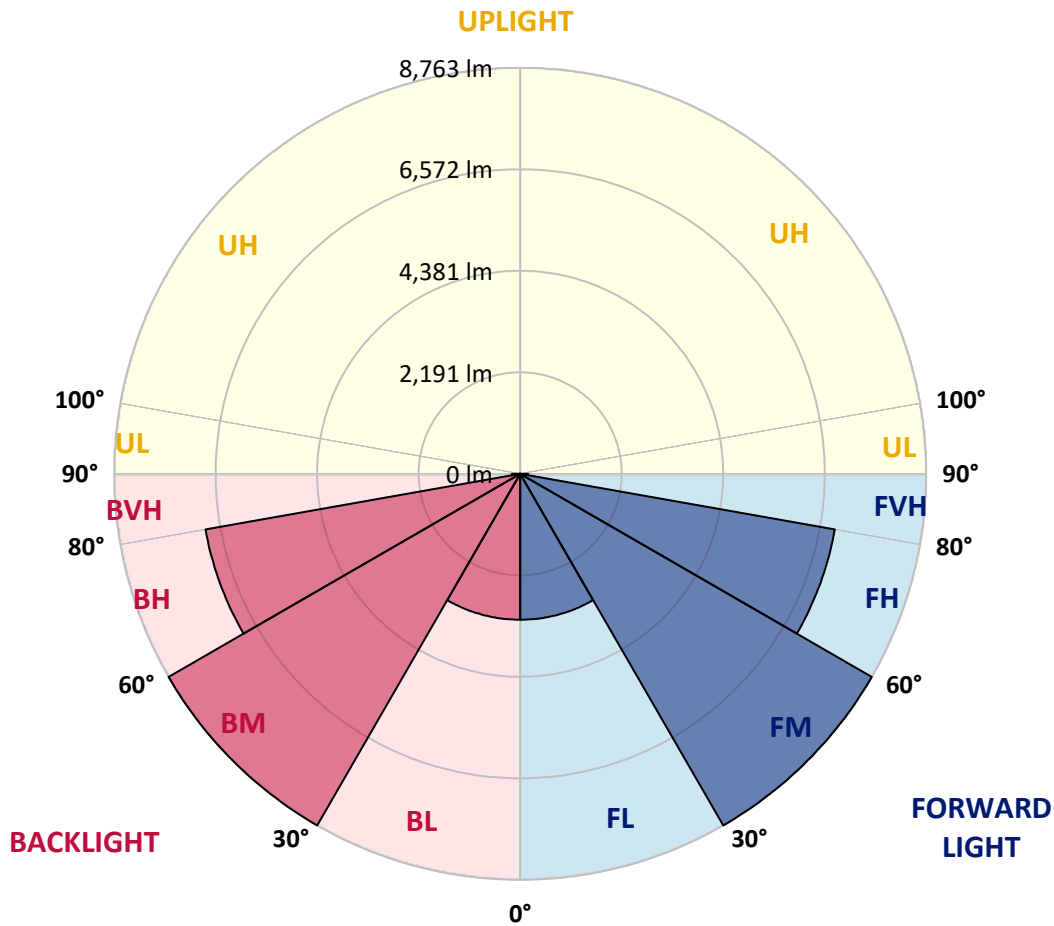
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3148.9 | 8.3 | | | |
| FM (30°-60°) | 8762.9 | 23.1 | | | |
| FH (60°-80°) | 6896.1 | 18.2 | | | G3/7500 |
| FVH (80°-90°) | 174.1 | 0.5 | | | G2/225 |
| BL (0°-30°) | 3148.9 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 8762.9 | 23.1 | B5 | | |
| BH (60°-80°) | 6896.1 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 174.1 | 0.5 | | | G2/225 |
| 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° | 7094.0 | 7094.0 | 7094.0 | 7094.0 | 7094.0 | 7094.0 | 7094.0 | 7094.0 | 7094.0 | 7094.0 |
| 2.5° | 7100.0 | 7108.1 | 7108.1 | 7102.0 | 7116.2 | 7104.1 | 7104.1 | 7098.0 | 7104.1 | 7098.0 |
| 5° | 7136.3 | 7146.4 | 7150.5 | 7148.5 | 7166.6 | 7156.5 | 7156.5 | 7148.5 | 7150.5 | 7144.4 |
| 7.5° | 7204.9 | 7219.1 | 7227.1 | 7237.2 | 7263.5 | 7251.3 | 7243.3 | 7219.1 | 7209.0 | 7192.8 |
| 10° | 7227.1 | 7243.3 | 7269.5 | 7322.0 | 7382.5 | 7384.5 | 7360.3 | 7299.8 | 7253.4 | 7217.0 |
| 12.5° | 7158.5 | 7180.7 | 7235.2 | 7342.1 | 7477.3 | 7531.8 | 7493.5 | 7392.6 | 7301.8 | 7237.2 |
| 15° | 7071.8 | 7096.0 | 7178.7 | 7340.1 | 7539.9 | 7667.0 | 7662.9 | 7529.8 | 7384.5 | 7283.6 |
| 17.5° | 6936.6 | 6960.8 | 7079.9 | 7305.8 | 7588.3 | 7798.1 | 7854.6 | 7717.4 | 7513.6 | 7378.5 |
| 20° | 6692.5 | 6714.7 | 6880.1 | 7196.9 | 7604.4 | 7937.3 | 8084.6 | 7963.6 | 7709.4 | 7525.7 |
| 22.5° | 6375.7 | 6410.0 | 6603.7 | 7009.2 | 7566.1 | 8082.6 | 8346.9 | 8264.2 | 7937.3 | 7683.1 |
| 25° | 6036.7 | 6073.1 | 6299.0 | 6779.2 | 7467.2 | 8187.5 | 8657.6 | 8605.2 | 8195.6 | 7878.8 |
| 27.5° | 5744.2 | 5782.5 | 6028.7 | 6551.2 | 7313.9 | 8227.9 | 8964.3 | 8990.5 | 8508.3 | 8094.7 |
| 30° | 5514.2 | 5550.5 | 5812.8 | 6367.6 | 7116.2 | 8187.5 | 9232.7 | 9414.2 | 8827.1 | 8282.4 |
| 32.5° | 5262.0 | 5308.4 | 5584.8 | 6143.7 | 6882.1 | 8090.7 | 9466.7 | 9872.2 | 9196.3 | 8484.1 |
| 35° | 4943.2 | 4985.6 | 5276.1 | 5837.0 | 6575.4 | 7935.3 | 9662.4 | 10380.7 | 9725.0 | 8790.8 |
| 37.5° | 4555.8 | 4596.2 | 4884.7 | 5453.6 | 6270.8 | 7717.4 | 9811.7 | 10953.7 | 10354.5 | 9232.7 |
| 40° | 4166.4 | 4204.7 | 4475.1 | 5025.9 | 5905.6 | 7439.0 | 9864.2 | 11514.6 | 11076.8 | 9840.0 |
| 42.5° | 3809.3 | 3843.6 | 4091.7 | 4604.2 | 5496.0 | 7083.9 | 9795.6 | 12002.9 | 11724.4 | 10263.7 |
| 45° | 3480.4 | 3510.7 | 3730.6 | 4208.8 | 5070.3 | 6652.1 | 9589.8 | 12527.4 | 12495.2 | 10566.3 |
| 47.5° | 3105.1 | 3135.4 | 3363.4 | 3825.4 | 4644.6 | 6145.7 | 9240.7 | 13044.0 | 13566.5 | 11252.3 |
| 50° | 2647.1 | 2673.4 | 2907.4 | 3383.6 | 4202.7 | 5607.0 | 8756.5 | 13449.5 | 14918.3 | 12291.4 |
| 52.5° | 2104.4 | 2132.6 | 2360.6 | 2836.8 | 3678.1 | 5027.9 | 8118.9 | 13713.8 | 16480.0 | 13808.6 |
| 55° | 1565.7 | 1585.9 | 1783.6 | 2211.3 | 3028.5 | 4368.2 | 7319.9 | 13788.5 | 18251.4 | 15882.8 |
| 57.5° | 1135.9 | 1148.0 | 1275.1 | 1593.9 | 2296.1 | 3543.0 | 6349.5 | 13594.8 | 20359.9 | 18542.0 |
| 60° | 920.0 | 924.1 | 962.4 | 1103.6 | 1595.9 | 2610.8 | 5177.2 | 12928.9 | 22647.9 | 21969.9 |
| 62.5° | 835.3 | 835.3 | 845.4 | 883.7 | 1079.4 | 1723.1 | 3758.8 | 11548.9 | 25101.3 | 26301.8 |
| 65° | 776.8 | 776.8 | 780.8 | 799.0 | 851.4 | 1097.6 | 2372.7 | 9301.3 | 27169.4 | 31376.1 |
| 67.5° | 724.3 | 726.3 | 724.3 | 730.4 | 760.6 | 811.1 | 1376.0 | 6424.1 | 28283.1 | 36634.0 |
| 70° | 669.9 | 673.9 | 663.8 | 663.8 | 688.0 | 690.0 | 861.5 | 3522.8 | 27359.0 | 41040.5 |
| 72.5° | 605.3 | 611.3 | 595.2 | 591.2 | 609.3 | 601.3 | 647.7 | 1690.8 | 23489.2 | 42356.0 |
| 75° | 548.8 | 556.9 | 520.5 | 510.5 | 510.5 | 504.4 | 526.6 | 867.6 | 15245.2 | 34551.9 |
| 77.5° | 498.4 | 514.5 | 456.0 | 423.7 | 415.6 | 397.5 | 429.8 | 530.6 | 6668.3 | 16221.7 |
| 80° | 411.6 | 433.8 | 375.3 | 336.9 | 322.8 | 302.6 | 339.0 | 371.2 | 1983.3 | 3766.9 |
| 82.5° | 306.7 | 316.8 | 266.3 | 240.1 | 228.0 | 213.9 | 254.2 | 258.3 | 645.6 | 1333.7 |
| 85° | 195.7 | 199.7 | 163.4 | 141.2 | 135.2 | 129.1 | 161.4 | 141.2 | 246.2 | 980.6 |
| 87.5° | 68.6 | 78.7 | 62.5 | 56.5 | 60.5 | 50.4 | 74.7 | 42.4 | 68.6 | 692.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

7094.0
7098.0
7144.4
7192.8
7211.0
7227.1
7267.5
7356.3
7491.4
7636.7
7814.3
8026.1
8183.5
8359.0
8651.6
9047.0
9642.2
10009.4
10223.3
10856.8
11795.0
13197.3
15118.1
17579.6
20757.3
24677.6
29322.2
34416.7
40457.4
43889.4
36956.9
15884.8
3607.5
1507.2
1424.4
857.5
0.0

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