

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: P944210

Luminaire Tested: **GALN-SB9A-760-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944210  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-760-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

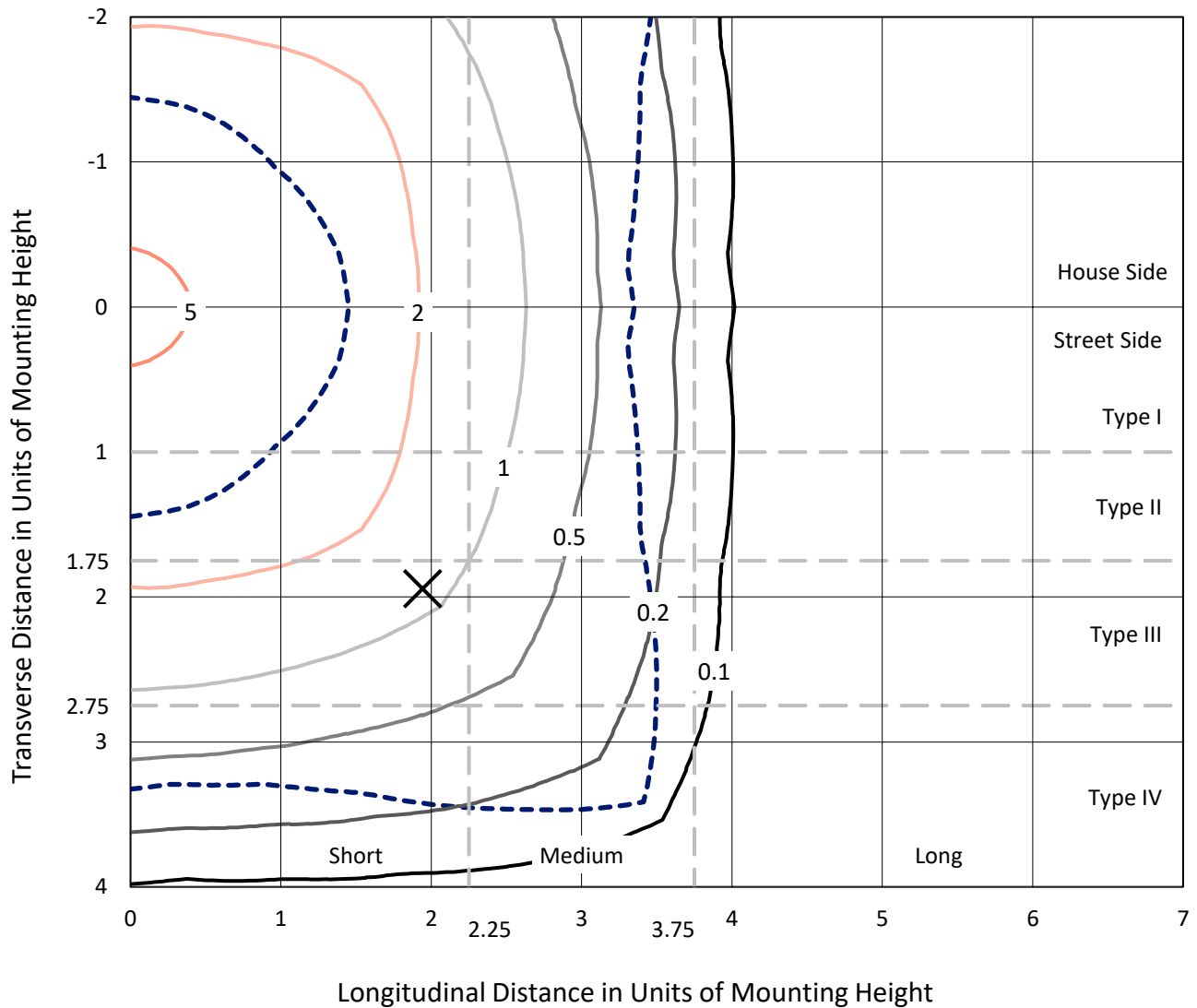
Lumens per Lamp: N/A  
Luminaire Lumens: 43724 lumens  
Efficiency: N/A  
Efficacy: 171.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

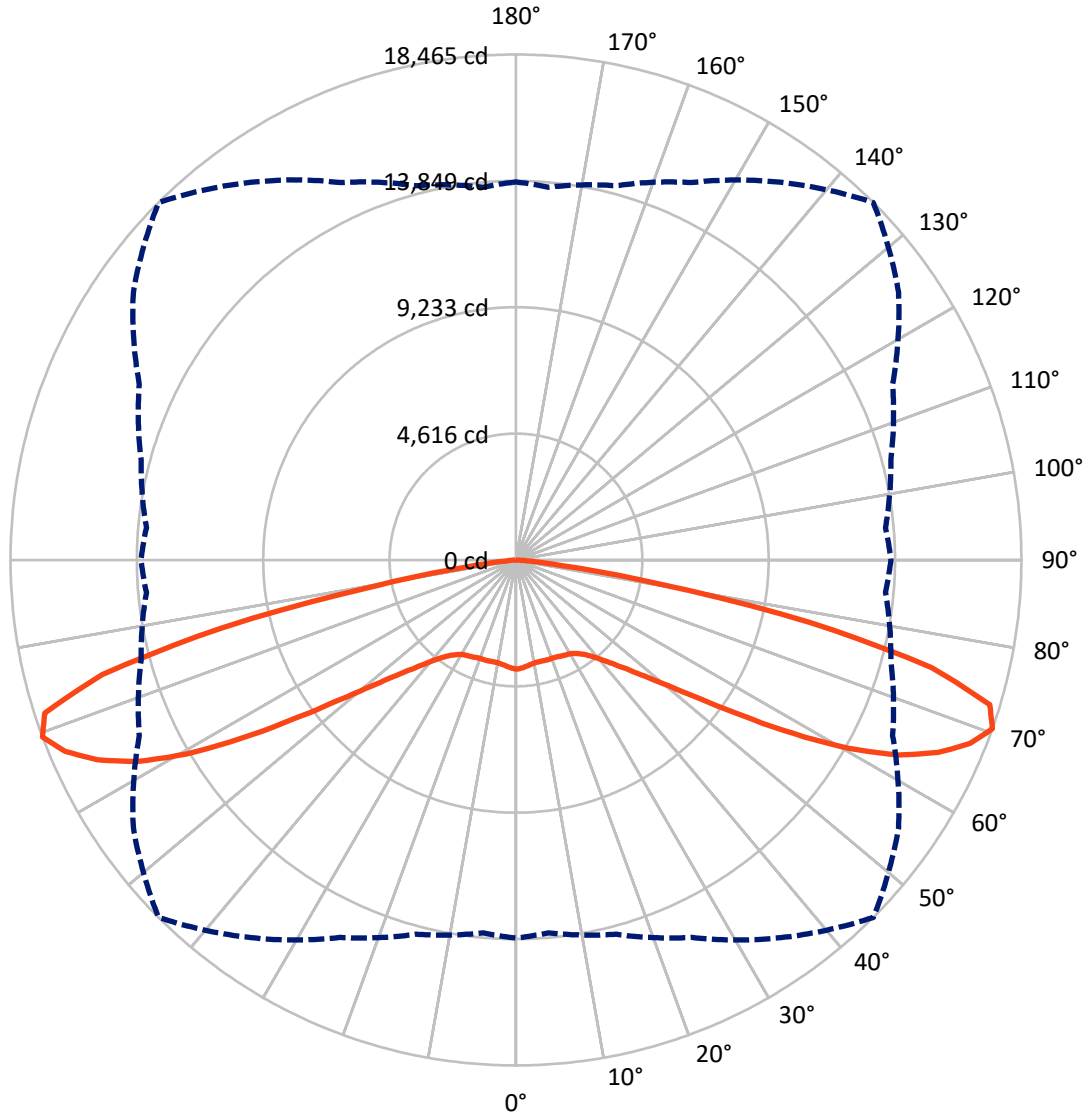
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21862.0  | 0.0    | 21862.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 21862.0  | 0.0    | 21862.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 43724.0  | 0.0    | 43724.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 371.0   | 0.8       |
| 10°-20°   | 1089.4  | 2.5       |
| 20°-30°   | 1813.0  | 4.1       |
| 30°-40°   | 2741.7  | 6.3       |
| 40°-50°   | 4556.1  | 10.4      |
| 50°-60°   | 8597.2  | 19.7      |
| 60°-70°   | 14516.8 | 33.2      |
| 70°-80°   | 9539.0  | 21.8      |
| 80°-90°   | 499.8   | 1.1       |
| 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°    | 43724.0 | 100.0     |
| 0°-180°   | 43724.0 | 100.0     |

**Coefficient of Utilization**



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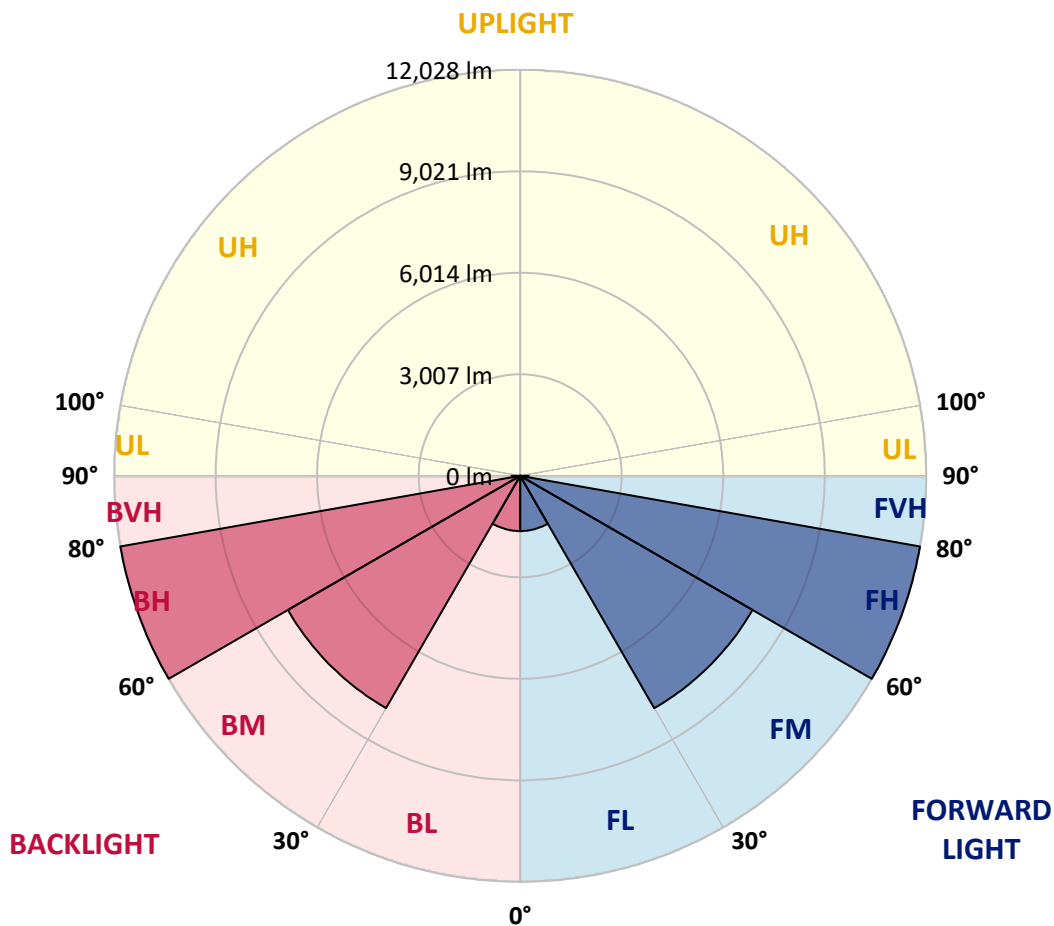
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 1636.7  | 3.7       |                         |      |        |
| FM (30°-60°)   | 7947.5  | 18.2      |                         |      |        |
| FH (60°-80°)   | 12027.9 | 27.5      |                         |      | G5     |
| FVH (80°-90°)  | 249.9   | 0.6       |                         |      | G3/500 |
| BL (0°-30°)    | 1636.7  | 3.7       | B3/2500                 |      |        |
| BM (30°-60°)   | 7947.5  | 18.2      | B4/8500                 |      |        |
| BH (60°-80°)   | 12027.9 | 27.5      | B5                      |      | G5     |
| BVH (80°-90°)  | 249.9   | 0.6       |                         |      | 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 V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3988.5  | 3988.5  | 3988.5  | 3988.5  | 3988.5  | 3988.5  | 3988.5  | 3988.5  | 3988.5  | 3988.5  |
| 2.5°  | 3963.5  | 3974.9  | 3970.3  | 3961.2  | 3961.2  | 3954.4  | 3961.2  | 3965.8  | 3972.6  | 3977.1  |
| 5°    | 3911.2  | 3920.3  | 3918.1  | 3911.2  | 3913.5  | 3906.7  | 3911.2  | 3918.1  | 3922.6  | 3924.9  |
| 7.5°  | 3865.8  | 3874.9  | 3870.3  | 3859.0  | 3859.0  | 3852.1  | 3854.4  | 3861.2  | 3868.1  | 3870.3  |
| 10°   | 3854.4  | 3863.5  | 3849.9  | 3831.7  | 3824.9  | 3815.8  | 3818.1  | 3824.9  | 3838.5  | 3845.3  |
| 12.5° | 3859.0  | 3865.8  | 3852.1  | 3824.9  | 3818.1  | 3809.0  | 3809.0  | 3815.8  | 3834.0  | 3843.1  |
| 15°   | 3872.6  | 3879.4  | 3859.0  | 3829.4  | 3822.6  | 3815.8  | 3813.5  | 3822.6  | 3843.1  | 3859.0  |
| 17.5° | 3897.6  | 3904.4  | 3872.6  | 3831.7  | 3822.6  | 3824.9  | 3822.6  | 3829.4  | 3861.2  | 3890.8  |
| 20°   | 3920.3  | 3924.9  | 3881.7  | 3831.7  | 3822.6  | 3824.9  | 3822.6  | 3836.2  | 3877.1  | 3918.1  |
| 22.5° | 3927.1  | 3931.7  | 3890.8  | 3847.6  | 3840.8  | 3843.1  | 3840.8  | 3854.4  | 3893.1  | 3934.0  |
| 25°   | 3929.4  | 3936.2  | 3904.4  | 3870.3  | 3881.7  | 3886.2  | 3881.7  | 3884.0  | 3913.5  | 3949.9  |
| 27.5° | 3963.5  | 3972.6  | 3943.1  | 3913.5  | 3920.3  | 3918.1  | 3924.9  | 3931.7  | 3954.4  | 3990.8  |
| 30°   | 4034.0  | 4040.8  | 4015.8  | 3986.2  | 3981.7  | 3965.8  | 3986.2  | 4009.0  | 4034.0  | 4065.8  |
| 32.5° | 4149.9  | 4163.5  | 4131.7  | 4099.9  | 4079.4  | 4070.3  | 4086.2  | 4124.9  | 4159.0  | 4193.0  |
| 35°   | 4343.0  | 4352.1  | 4322.6  | 4263.5  | 4227.1  | 4227.1  | 4240.8  | 4290.8  | 4345.3  | 4388.5  |
| 37.5° | 4615.8  | 4627.1  | 4574.9  | 4504.4  | 4449.9  | 4449.9  | 4468.0  | 4520.3  | 4602.1  | 4663.5  |
| 40°   | 4947.6  | 4963.5  | 4897.6  | 4824.8  | 4772.6  | 4763.5  | 4786.2  | 4845.3  | 4922.6  | 4999.8  |
| 42.5° | 5347.6  | 5365.7  | 5279.4  | 5215.7  | 5174.8  | 5174.8  | 5186.2  | 5240.7  | 5311.2  | 5406.6  |
| 45°   | 5858.9  | 5890.7  | 5772.5  | 5708.9  | 5670.3  | 5679.4  | 5686.2  | 5733.9  | 5797.5  | 5906.6  |
| 47.5° | 6468.0  | 6499.8  | 6374.8  | 6308.9  | 6302.1  | 6345.3  | 6318.0  | 6352.1  | 6386.2  | 6511.2  |
| 50°   | 7158.9  | 7213.4  | 7127.0  | 7122.5  | 7136.1  | 7215.7  | 7152.0  | 7170.2  | 7131.6  | 7211.1  |
| 52.5° | 8004.3  | 8083.8  | 8067.9  | 8095.2  | 8247.5  | 8411.1  | 8265.6  | 8202.0  | 8056.6  | 8081.6  |
| 55°   | 9029.3  | 9149.7  | 9172.4  | 9336.1  | 9681.5  | 10015.6 | 9706.5  | 9449.7  | 9140.6  | 9083.8  |
| 57.5° | 10195.1 | 10290.6 | 10399.7 | 10733.7 | 11379.2 | 11972.3 | 11379.2 | 10811.0 | 10324.7 | 10208.8 |
| 60°   | 11449.6 | 11567.8 | 11672.4 | 12165.5 | 13124.6 | 13958.6 | 13106.4 | 12204.2 | 11561.0 | 11404.2 |
| 62.5° | 12797.3 | 12949.6 | 13022.3 | 13570.0 | 14688.2 | 15683.6 | 14704.1 | 13610.9 | 12897.3 | 12729.1 |
| 65°   | 14090.5 | 14215.5 | 14297.3 | 14881.3 | 15949.5 | 16947.2 | 16022.2 | 14945.0 | 14210.9 | 13990.5 |
| 67.5° | 14692.7 | 14760.9 | 14960.9 | 15622.2 | 16749.5 | 17888.1 | 16940.4 | 15692.7 | 14872.3 | 14485.9 |
| 70°   | 13810.9 | 13672.3 | 14154.1 | 15213.2 | 16844.9 | 18465.3 | 17063.1 | 15181.3 | 14176.8 | 13549.6 |
| 72.5° | 10672.4 | 10433.8 | 11270.1 | 13081.4 | 15754.0 | 18097.1 | 15863.1 | 13183.7 | 11790.5 | 10517.8 |
| 75°   | 5806.6  | 5536.2  | 6690.7  | 8981.5  | 12563.2 | 15685.9 | 12851.9 | 9238.3  | 7449.8  | 5763.5  |
| 77.5° | 1638.6  | 1536.3  | 2468.1  | 4345.3  | 7556.6  | 11013.3 | 7847.5  | 4440.8  | 2927.2  | 1736.3  |
| 80°   | 502.3   | 486.3   | 659.1   | 1309.0  | 3209.0  | 5274.8  | 3084.0  | 1325.0  | 838.6   | 529.5   |
| 82.5° | 297.7   | 272.7   | 327.3   | 477.3   | 818.2   | 1656.8  | 795.4   | 497.7   | 400.0   | 268.2   |
| 85°   | 170.4   | 159.1   | 193.2   | 231.8   | 275.0   | 352.3   | 229.5   | 236.4   | 213.6   | 143.2   |
| 87.5° | 70.5    | 63.6    | 75.0    | 72.7    | 63.6    | 81.8    | 61.4    | 72.7    | 86.4    | 56.8    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

90°  
3988.5  
3974.9  
3924.9  
3870.3  
3845.3  
3845.3  
3861.2  
3890.8  
3920.3  
3934.0  
3947.6  
3981.7  
4059.0  
4179.4  
4372.6  
4640.8  
4974.8  
5399.8  
5902.1  
6474.8  
7163.4  
7997.5  
8995.2  
10126.9  
11267.8  
12592.8  
13881.4  
14490.4  
*13699.6*  
10833.7  
6138.4  
1929.5  
559.1  
290.9  
150.0  
52.3  
0.0

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