

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: P943860

Luminaire Tested: **GALN-SB8C-750-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943860  
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-SB8C-750-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

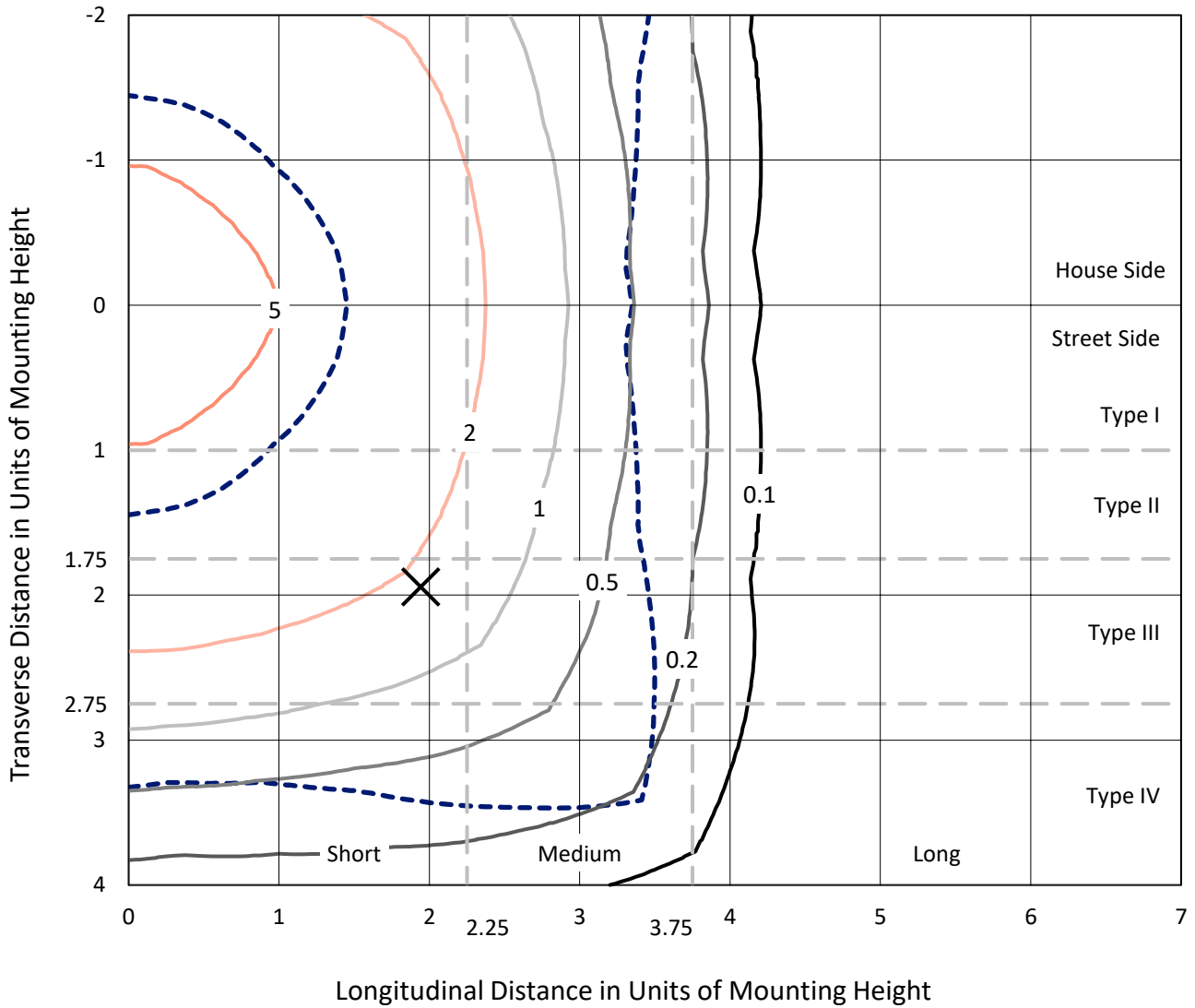
Lumens per Lamp: N/A  
Luminaire Lumens: 64806 lumens  
Efficiency: N/A  
Efficacy: 162.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

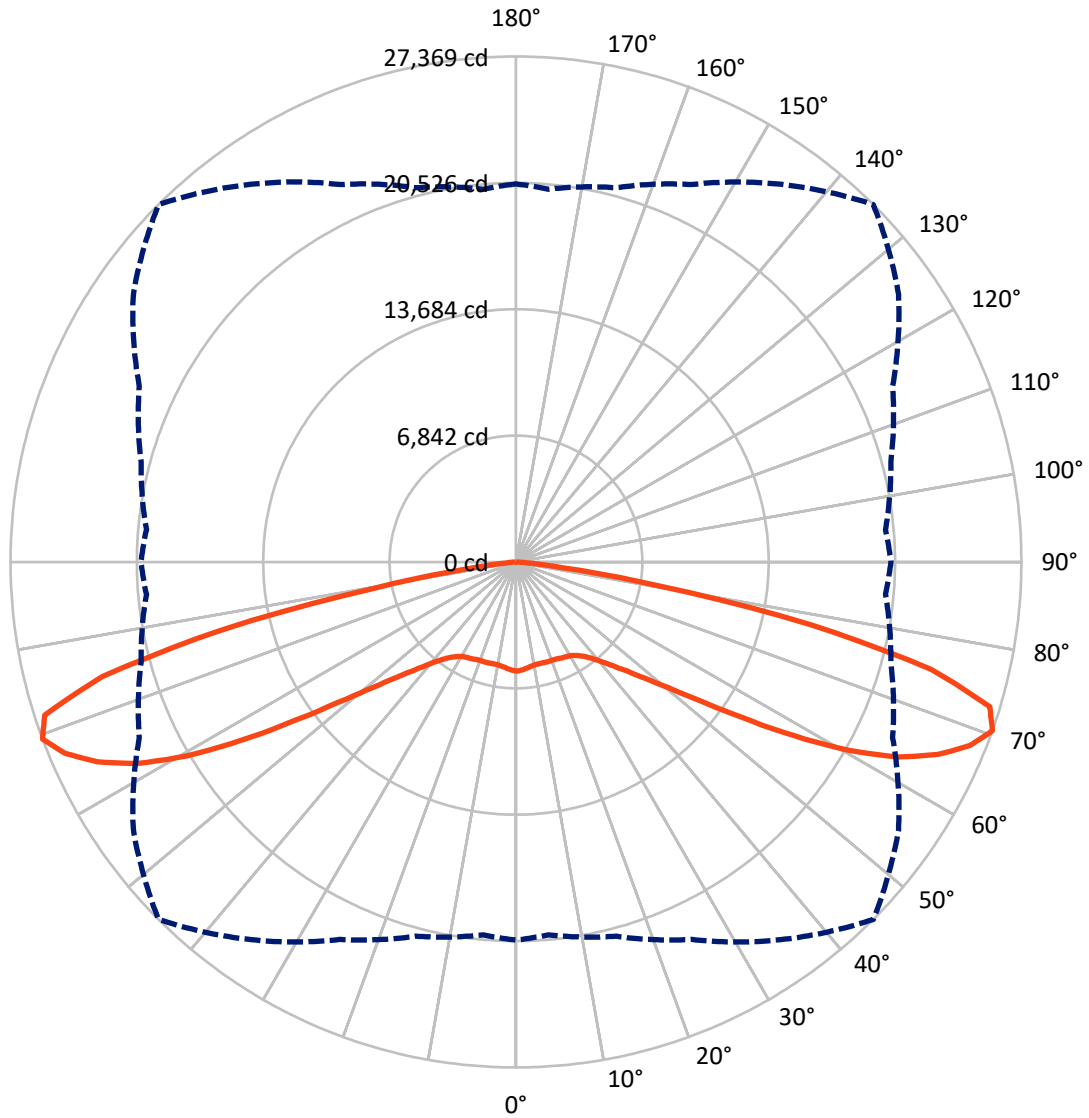
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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    | 32403.0  | 0.0    | 32403.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 32403.0  | 0.0    | 32403.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 64806.0  | 0.0    | 64806.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 549.9   | 0.8       |
| 10°-20°   | 1614.7  | 2.5       |
| 20°-30°   | 2687.1  | 4.1       |
| 30°-40°   | 4063.7  | 6.3       |
| 40°-50°   | 6752.9  | 10.4      |
| 50°-60°   | 12742.5 | 19.7      |
| 60°-70°   | 21516.2 | 33.2      |
| 70°-80°   | 14138.4 | 21.8      |
| 80°-90°   | 740.7   | 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°    | 64806.0 | 100.0     |
| 0°-180°   | 64806.0 | 100.0     |



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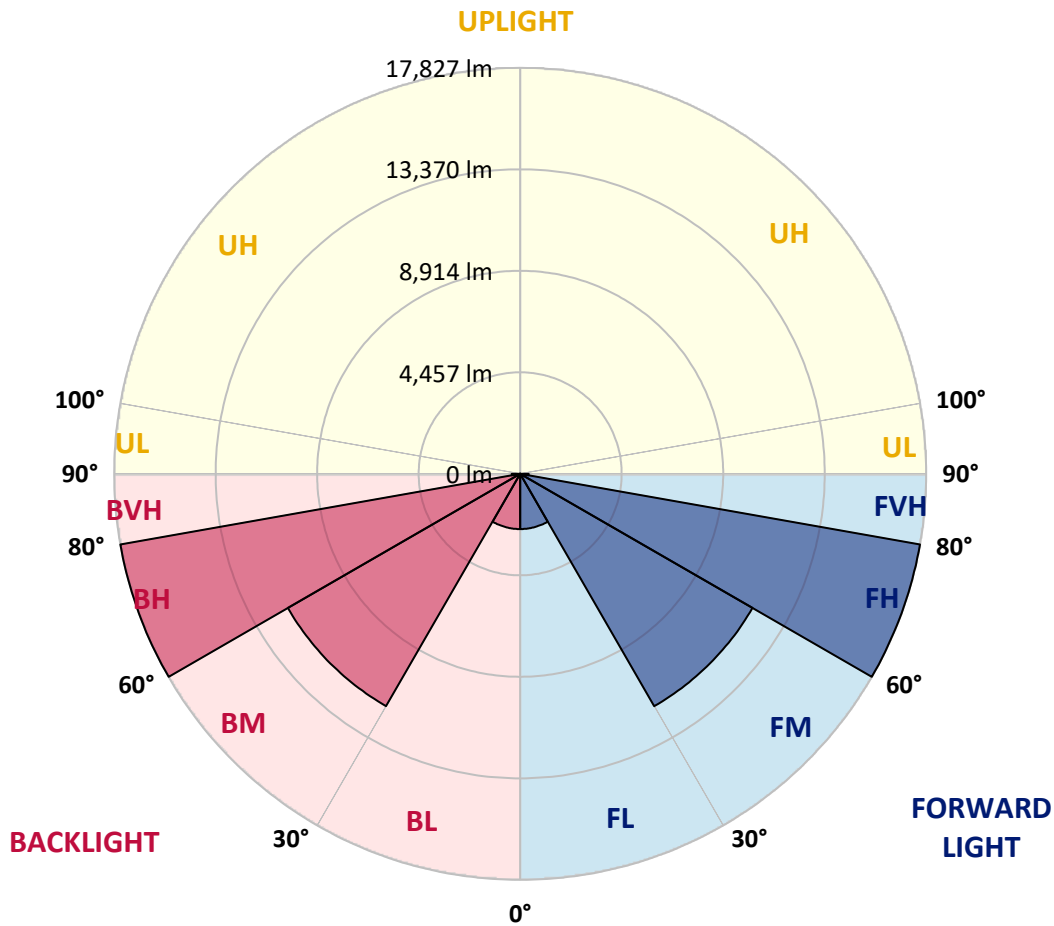
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 2425.9  | 3.7       |                         |      |        |
| FM (30°-60°)   | 11779.5 | 18.2      |                         |      |        |
| FH (60°-80°)   | 17827.3 | 27.5      |                         |      | G5     |
| FVH (80°-90°)  | 370.4   | 0.6       |                         |      | G3/500 |
| BL (0°-30°)    | 2425.9  | 3.7       | B3/2500                 |      |        |
| BM (30°-60°)   | 11779.5 | 18.2      | B5                      |      |        |
| BH (60°-80°)   | 17827.3 | 27.5      | B5                      |      | G5     |
| BVH (80°-90°)  | 370.4   | 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°    | 5911.6  | 5911.6  | 5911.6  | 5911.6  | 5911.6  | 5911.6  | 5911.6  | 5911.6  | 5911.6  | 5911.6  |
| 2.5°  | 5874.6  | 5891.4  | 5884.7  | 5871.2  | 5871.2  | 5861.1  | 5871.2  | 5877.9  | 5888.0  | 5894.8  |
| 5°    | 5797.1  | 5810.6  | 5807.2  | 5797.1  | 5800.5  | 5790.3  | 5797.1  | 5807.2  | 5813.9  | 5817.3  |
| 7.5°  | 5729.7  | 5743.2  | 5736.5  | 5719.6  | 5719.6  | 5709.5  | 5712.9  | 5723.0  | 5733.1  | 5736.5  |
| 10°   | 5712.9  | 5726.3  | 5706.1  | 5679.2  | 5669.1  | 5655.6  | 5659.0  | 5669.1  | 5689.3  | 5699.4  |
| 12.5° | 5719.6  | 5729.7  | 5709.5  | 5669.1  | 5659.0  | 5645.5  | 5645.5  | 5655.6  | 5682.6  | 5696.0  |
| 15°   | 5739.8  | 5749.9  | 5719.6  | 5675.8  | 5665.7  | 5655.6  | 5652.2  | 5665.7  | 5696.0  | 5719.6  |
| 17.5° | 5776.9  | 5787.0  | 5739.8  | 5679.2  | 5665.7  | 5669.1  | 5665.7  | 5675.8  | 5723.0  | 5766.8  |
| 20°   | 5810.6  | 5817.3  | 5753.3  | 5679.2  | 5665.7  | 5669.1  | 5665.7  | 5685.9  | 5746.6  | 5807.2  |
| 22.5° | 5820.7  | 5827.4  | 5766.8  | 5702.8  | 5692.7  | 5696.0  | 5692.7  | 5712.9  | 5770.1  | 5830.8  |
| 25°   | 5824.0  | 5834.1  | 5787.0  | 5736.5  | 5753.3  | 5760.0  | 5753.3  | 5756.7  | 5800.5  | 5854.3  |
| 27.5° | 5874.6  | 5888.0  | 5844.2  | 5800.5  | 5810.6  | 5807.2  | 5817.3  | 5827.4  | 5861.1  | 5915.0  |
| 30°   | 5979.0  | 5989.1  | 5952.0  | 5908.2  | 5901.5  | 5877.9  | 5908.2  | 5941.9  | 5979.0  | 6026.1  |
| 32.5° | 6150.8  | 6171.0  | 6123.8  | 6076.7  | 6046.3  | 6032.9  | 6056.5  | 6113.7  | 6164.2  | 6214.8  |
| 35°   | 6437.1  | 6450.6  | 6406.8  | 6319.2  | 6265.3  | 6265.3  | 6285.5  | 6359.6  | 6440.5  | 6504.5  |
| 37.5° | 6841.3  | 6858.1  | 6780.7  | 6676.2  | 6595.4  | 6595.4  | 6622.4  | 6699.8  | 6821.1  | 6912.0  |
| 40°   | 7333.1  | 7356.7  | 7259.0  | 7151.2  | 7073.7  | 7060.2  | 7093.9  | 7181.5  | 7296.0  | 7410.6  |
| 42.5° | 7925.9  | 7952.9  | 7824.9  | 7730.6  | 7669.9  | 7669.9  | 7686.8  | 7767.6  | 7872.0  | 8013.5  |
| 45°   | 8683.8  | 8731.0  | 8555.8  | 8461.5  | 8404.3  | 8417.7  | 8427.8  | 8498.6  | 8592.9  | 8754.6  |
| 47.5° | 9586.6  | 9633.7  | 9448.5  | 9350.8  | 9340.7  | 9404.7  | 9364.3  | 9414.8  | 9465.3  | 9650.6  |
| 50°   | 10610.6 | 10691.4 | 10563.4 | 10556.7 | 10576.9 | 10694.8 | 10600.5 | 10627.4 | 10570.2 | 10688.1 |
| 52.5° | 11863.6 | 11981.5 | 11958.0 | 11998.4 | 12224.1 | 12466.6 | 12251.0 | 12156.7 | 11941.1 | 11978.2 |
| 55°   | 13382.8 | 13561.3 | 13595.0 | 13837.6 | 14349.6 | 14844.7 | 14386.6 | 14006.0 | 13547.9 | 13463.7 |
| 57.5° | 15110.8 | 15252.3 | 15414.0 | 15909.1 | 16865.8 | 17744.9 | 16865.8 | 16023.7 | 15302.8 | 15131.0 |
| 60°   | 16970.2 | 17145.4 | 17300.3 | 18031.3 | 19452.7 | 20689.0 | 19425.8 | 18088.5 | 17135.3 | 16902.8 |
| 62.5° | 18967.7 | 19193.4 | 19301.2 | 20113.0 | 21770.2 | 23245.6 | 21793.8 | 20173.6 | 19115.9 | 18866.6 |
| 65°   | 20884.3 | 21069.6 | 21190.9 | 22056.5 | 23639.7 | 25118.5 | 23747.5 | 22150.9 | 21062.9 | 20736.1 |
| 67.5° | 21777.0 | 21878.0 | 22174.4 | 23154.7 | 24825.4 | 26513.0 | 25108.4 | 23259.1 | 22043.1 | 21470.4 |
| 70°   | 20470.0 | 20264.5 | 20978.6 | 22548.3 | 24966.9 | 27368.6 | 25290.2 | 22501.2 | 21012.3 | 20082.6 |
| 72.5° | 15818.2 | 15464.5 | 16704.1 | 19388.7 | 23350.0 | 26822.9 | 23511.7 | 19540.3 | 17475.5 | 15589.1 |
| 75°   | 8606.4  | 8205.5  | 9916.7  | 13312.1 | 18620.7 | 23249.0 | 19048.5 | 13692.7 | 11041.7 | 8542.4  |
| 77.5° | 2428.6  | 2277.1  | 3658.1  | 6440.5  | 11200.1 | 16323.5 | 11631.2 | 6581.9  | 4338.6  | 2573.5  |
| 80°   | 744.4   | 720.8   | 976.8   | 1940.2  | 4756.2  | 7818.1  | 4571.0  | 1963.8  | 1243.0  | 784.8   |
| 82.5° | 441.3   | 404.2   | 485.1   | 707.4   | 1212.6  | 2455.6  | 1179.0  | 737.7   | 592.8   | 397.5   |
| 85°   | 252.6   | 235.8   | 286.3   | 343.6   | 407.6   | 522.1   | 340.2   | 350.3   | 316.6   | 212.2   |
| 87.5° | 104.4   | 94.3    | 111.2   | 107.8   | 94.3    | 121.3   | 90.9    | 107.8   | 128.0   | 84.2    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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90°  
5911.6  
5891.4  
5817.3  
5736.5  
5699.4  
5699.4  
5723.0  
5766.8  
5810.6  
5830.8  
5851.0  
5901.5  
6016.0  
6194.6  
6480.9  
6878.4  
7373.5  
8003.4  
8747.8  
9596.7  
10617.3  
11853.5  
13332.3  
15009.8  
16700.7  
18664.5  
20574.4  
21477.2  
*20305.0*  
16057.4  
9098.2  
2859.8  
828.6  
431.2  
222.3  
77.5  
0.0

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