

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: P955414

Luminaire Tested: **GALN-SB8B-850-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-850-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

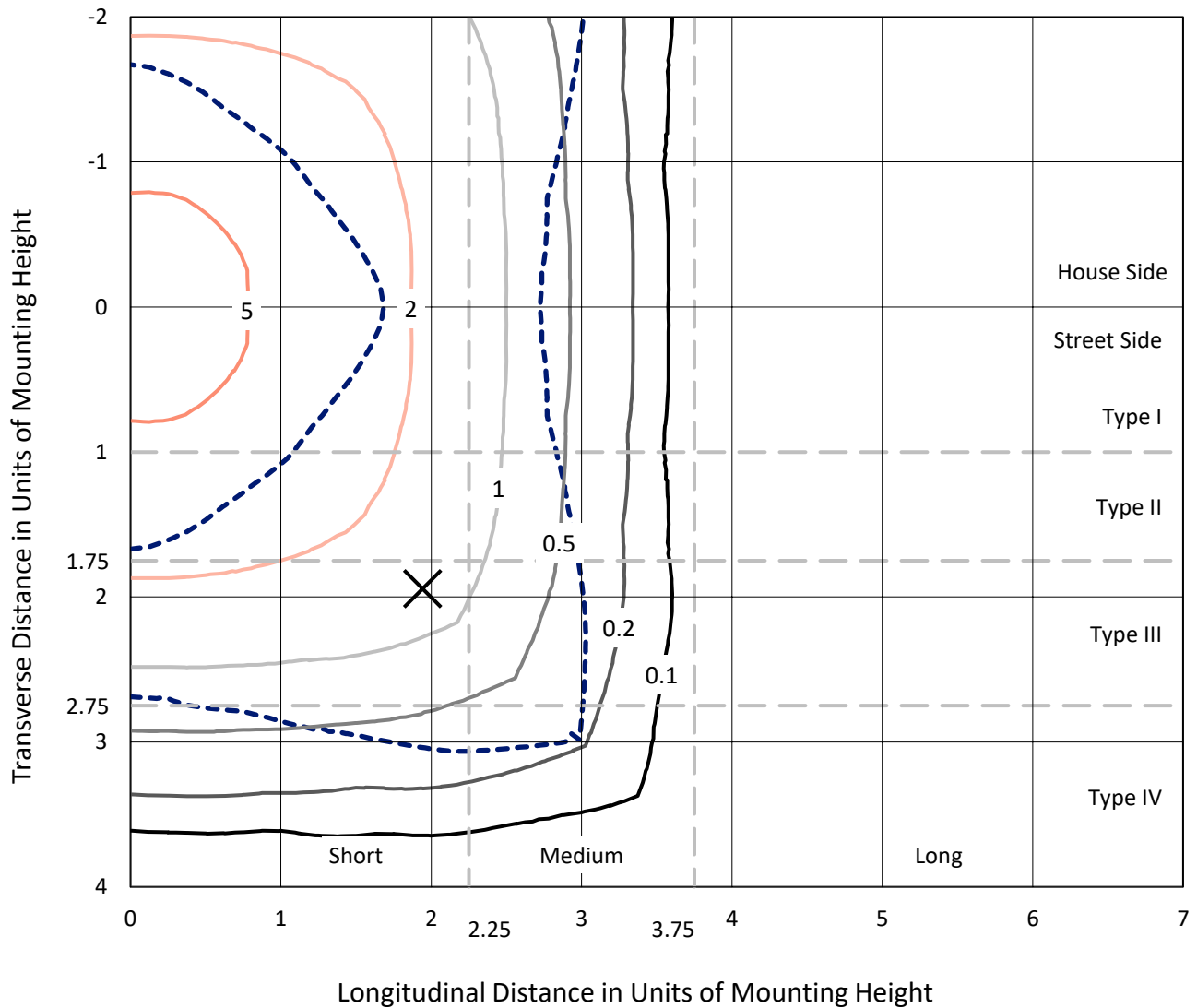
Lumens per Lamp: N/A  
Luminaire Lumens: 45612 lumens  
Efficiency: N/A  
Efficacy: 155.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

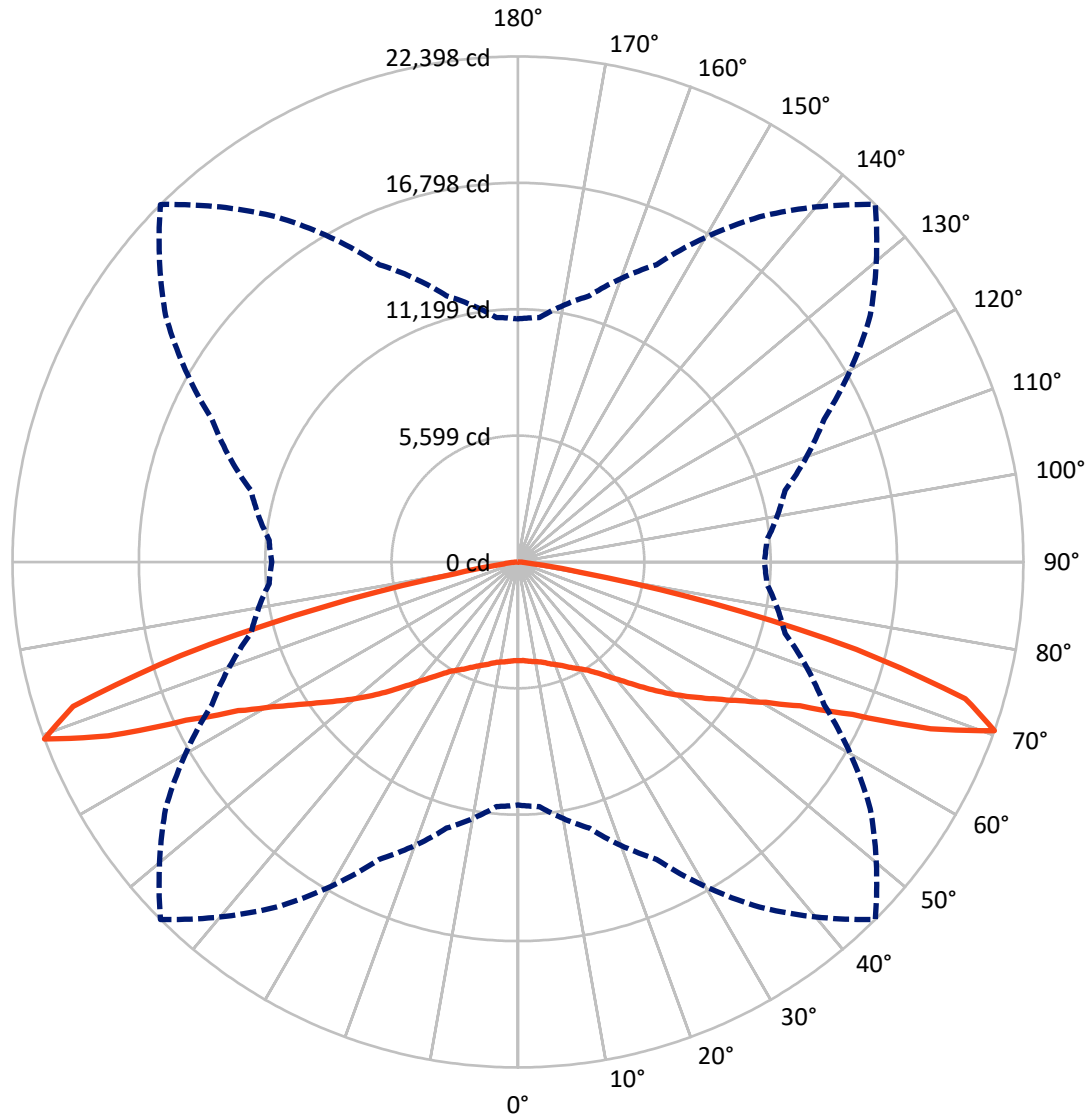
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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    | 22806.0  | 0.0    | 22806.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 22806.0  | 0.0    | 22806.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 45612.0  | 0.0    | 45612.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 424.5   | 0.9       |
| 10°-20°   | 1316.2  | 2.9       |
| 20°-30°   | 2352.2  | 5.2       |
| 30°-40°   | 3812.9  | 8.4       |
| 40°-50°   | 6210.6  | 13.6      |
| 50°-60°   | 9469.1  | 20.8      |
| 60°-70°   | 14087.0 | 30.9      |
| 70°-80°   | 7677.9  | 16.8      |
| 80°-90°   | 261.5   | 0.6       |
| 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°    | 45612.0 | 100.0     |
| 0°-180°   | 45612.0 | 100.0     |

**Coefficient of Utilization**



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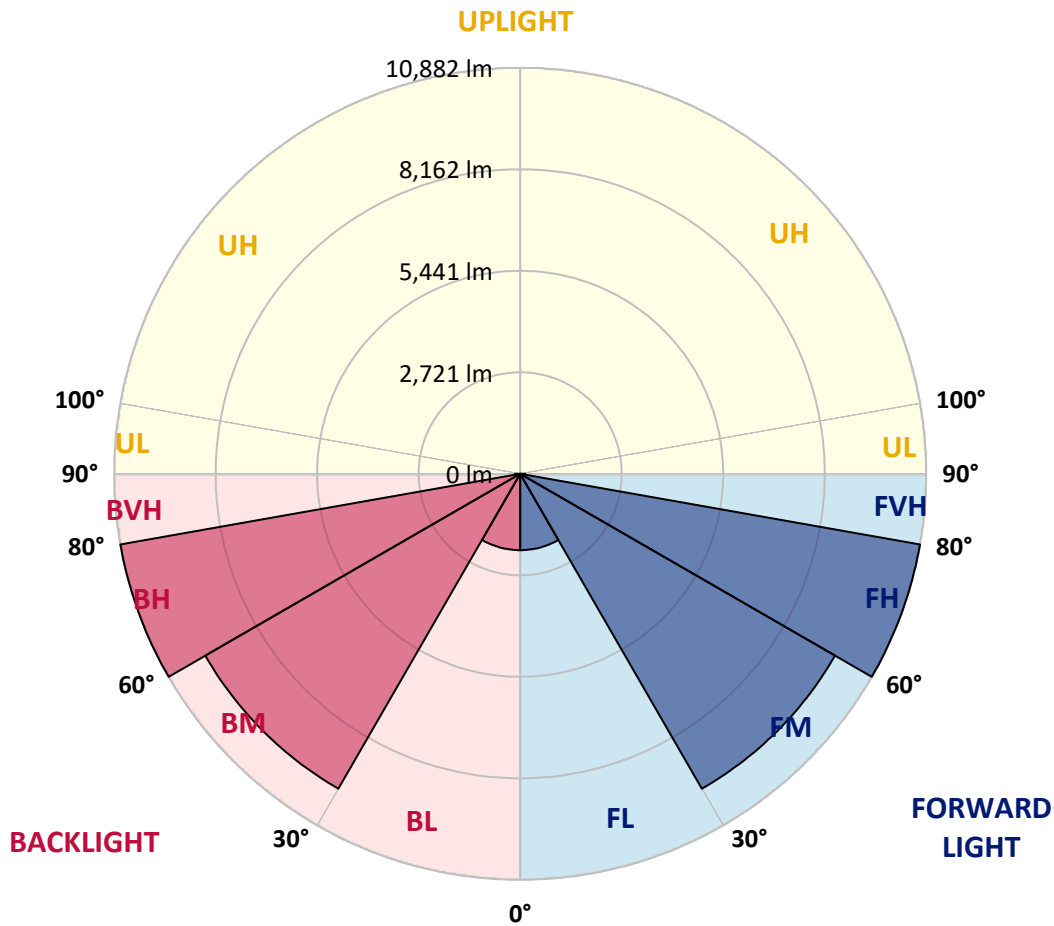
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2046.5  | 4.5       |                         |      |          |
| FM (30°-60°)   | 9746.3  | 21.4      |                         |      |          |
| FH (60°-80°)   | 10882.5 | 23.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 130.7   | 0.3       |                         |      | G2/225   |
| BL (0°-30°)    | 2046.5  | 4.5       | B3/2500                 |      |          |
| BM (30°-60°)   | 9746.3  | 21.4      | B5                      |      |          |
| BH (60°-80°)   | 10882.5 | 23.9      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 130.7   | 0.3       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4369.2  | 4369.2  | 4369.2  | 4369.2  | 4369.2  | 4369.2  | 4369.2  | 4369.2  | 4369.2  | 4369.2  |
| 2.5°  | 4389.8  | 4394.3  | 4385.2  | 4380.6  | 4376.0  | 4369.2  | 4371.4  | 4382.9  | 4392.1  | 4389.8  |
| 5°    | 4426.4  | 4431.0  | 4424.1  | 4421.8  | 4412.7  | 4410.4  | 4410.4  | 4421.8  | 4428.7  | 4424.1  |
| 7.5°  | 4467.6  | 4474.5  | 4463.0  | 4460.8  | 4456.2  | 4451.6  | 4449.3  | 4460.8  | 4467.6  | 4467.6  |
| 10°   | 4506.6  | 4513.4  | 4504.3  | 4497.4  | 4492.8  | 4492.8  | 4488.2  | 4497.4  | 4508.8  | 4506.6  |
| 12.5° | 4547.8  | 4552.4  | 4543.2  | 4538.6  | 4538.6  | 4545.5  | 4538.6  | 4543.2  | 4552.4  | 4547.8  |
| 15°   | 4598.1  | 4600.4  | 4598.1  | 4605.0  | 4616.5  | 4639.4  | 4618.8  | 4614.2  | 4618.8  | 4607.3  |
| 17.5° | 4666.8  | 4671.4  | 4680.6  | 4696.6  | 4712.6  | 4753.9  | 4717.2  | 4705.8  | 4705.8  | 4682.9  |
| 20°   | 4751.6  | 4758.4  | 4772.2  | 4799.7  | 4820.3  | 4859.2  | 4822.6  | 4806.5  | 4799.7  | 4769.9  |
| 22.5° | 4840.9  | 4852.3  | 4872.9  | 4909.6  | 4946.2  | 4982.9  | 4946.2  | 4918.7  | 4898.1  | 4859.2  |
| 25°   | 4943.9  | 4957.7  | 4989.7  | 5049.3  | 5099.6  | 5152.3  | 5108.8  | 5053.8  | 5012.6  | 4957.7  |
| 27.5° | 5090.5  | 5106.5  | 5145.4  | 5218.7  | 5282.8  | 5328.6  | 5287.4  | 5216.4  | 5159.2  | 5092.8  |
| 30°   | 5296.6  | 5312.6  | 5358.4  | 5436.3  | 5479.8  | 5509.5  | 5482.1  | 5427.1  | 5358.4  | 5282.8  |
| 32.5° | 5562.2  | 5582.8  | 5633.2  | 5706.5  | 5715.6  | 5720.2  | 5711.0  | 5683.6  | 5633.2  | 5541.6  |
| 35°   | 5898.8  | 5921.7  | 5979.0  | 6038.5  | 6029.3  | 6038.5  | 6024.8  | 6015.6  | 5979.0  | 5873.6  |
| 37.5° | 6311.0  | 6338.5  | 6398.0  | 6443.8  | 6420.9  | 6409.5  | 6411.8  | 6414.1  | 6393.4  | 6276.7  |
| 40°   | 6789.6  | 6826.2  | 6869.7  | 6917.8  | 6878.9  | 6844.6  | 6867.5  | 6885.8  | 6867.5  | 6748.4  |
| 42.5° | 7281.9  | 7334.6  | 7380.4  | 7449.1  | 7417.0  | 7373.5  | 7405.6  | 7426.2  | 7387.3  | 7259.0  |
| 45°   | 7829.2  | 7879.6  | 7939.1  | 8042.2  | 8019.3  | 7973.5  | 8019.3  | 8023.9  | 7957.5  | 7806.3  |
| 47.5° | 8394.8  | 8447.5  | 8536.8  | 8674.2  | 8665.0  | 8614.7  | 8674.2  | 8642.1  | 8557.4  | 8376.5  |
| 50°   | 8930.7  | 9003.9  | 9141.3  | 9333.7  | 9352.0  | 9290.2  | 9370.3  | 9308.5  | 9166.5  | 8939.8  |
| 52.5° | 9434.4  | 9512.3  | 9729.8  | 9990.9  | 10057.3 | 9977.2  | 10084.8 | 9977.2  | 9764.2  | 9473.4  |
| 55°   | 9963.4  | 10050.4 | 10309.2 | 10650.4 | 10783.2 | 10723.7 | 10824.4 | 10661.8 | 10359.6 | 10006.9 |
| 57.5° | 10586.3 | 10638.9 | 10948.1 | 11353.4 | 11577.8 | 11591.5 | 11637.3 | 11362.6 | 10996.2 | 10595.4 |
| 60°   | 11261.8 | 11335.1 | 11671.7 | 12157.2 | 12512.1 | 12626.6 | 12578.5 | 12170.9 | 11745.0 | 11284.7 |
| 62.5° | 12127.4 | 12207.5 | 12610.6 | 13192.2 | 13753.2 | 14037.2 | 13849.4 | 13258.6 | 12731.9 | 12180.1 |
| 65°   | 12844.1 | 12933.4 | 13661.6 | 14699.0 | 15720.3 | 16290.5 | 15818.7 | 14731.0 | 13783.0 | 13004.4 |
| 67.5° | 12324.3 | 12434.2 | 13576.9 | 15482.1 | 18021.6 | 19723.0 | 18108.6 | 15715.7 | 13858.6 | 12802.9 |
| 70°   | 10771.8 | 10874.8 | 12207.5 | 14536.4 | 18669.7 | 22397.7 | 19059.0 | 14964.6 | 12251.0 | 11069.4 |
| 72.5° | 7151.4  | 7483.4  | 8832.2  | 11625.9 | 16670.6 | 20726.0 | 16835.5 | 11390.0 | 8193.3  | 7135.4  |
| 75°   | 2372.4  | 2638.0  | 3558.5  | 6027.1  | 11165.6 | 15500.4 | 10629.8 | 5333.2  | 2818.9  | 2028.9  |
| 77.5° | 597.7   | 689.3   | 950.3   | 1724.3  | 4453.9  | 8825.3  | 4009.6  | 1408.3  | 767.1   | 535.8   |
| 80°   | 290.8   | 320.6   | 458.0   | 574.8   | 1115.2  | 2805.1  | 1046.5  | 540.4   | 361.8   | 279.4   |
| 82.5° | 160.3   | 162.6   | 258.8   | 325.2   | 414.5   | 725.9   | 430.5   | 316.0   | 208.4   | 169.5   |
| 85°   | 98.5    | 96.2    | 137.4   | 174.0   | 174.0   | 258.8   | 206.1   | 174.0   | 119.1   | 105.3   |
| 87.5° | 38.9    | 38.9    | 50.4    | 55.0    | 48.1    | 66.4    | 52.7    | 57.2    | 45.8    | 43.5    |
| 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°     |
|---------|
| 4369.2  |
| 4392.1  |
| 4426.4  |
| 4467.6  |
| 4506.6  |
| 4545.5  |
| 4607.3  |
| 4682.9  |
| 4769.9  |
| 4856.9  |
| 4955.4  |
| 5090.5  |
| 5282.8  |
| 5543.9  |
| 5873.6  |
| 6276.7  |
| 6748.4  |
| 7268.2  |
| 7822.3  |
| 8365.1  |
| 8935.2  |
| 9445.9  |
| 9958.8  |
| 10540.5 |
| 11211.4 |
| 12083.9 |
| 12876.2 |
| 12644.9 |
| 10911.4 |
| 6904.1  |
| 1918.9  |
| 478.6   |
| 256.5   |
| 169.5   |
| 109.9   |
| 45.8    |
| 0.0     |

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