

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: P957220

Luminaire Tested: **GALN-SB9C-927-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957220  
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-SB9C-927-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

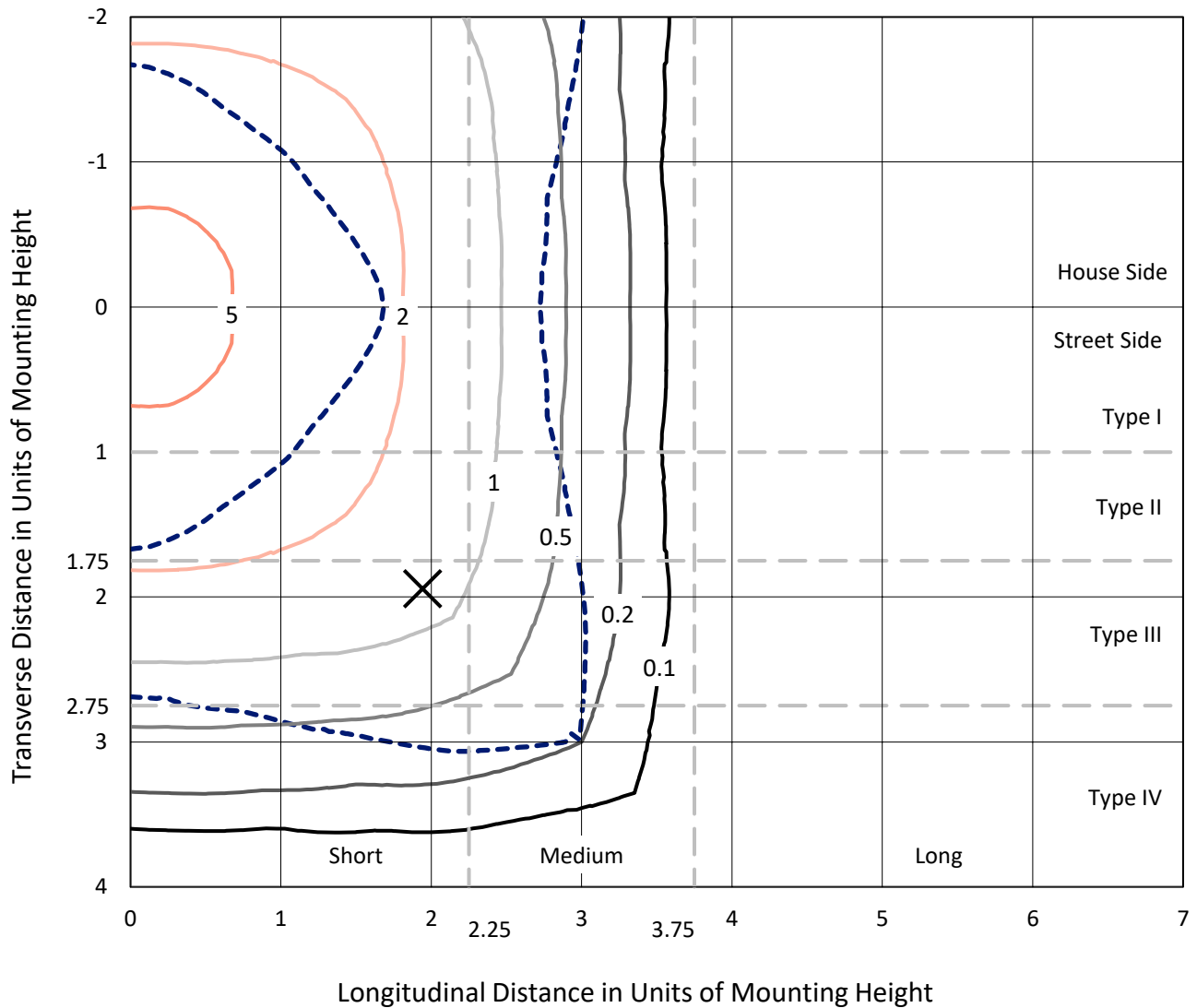
Lumens per Lamp: N/A  
Luminaire Lumens: 43483 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

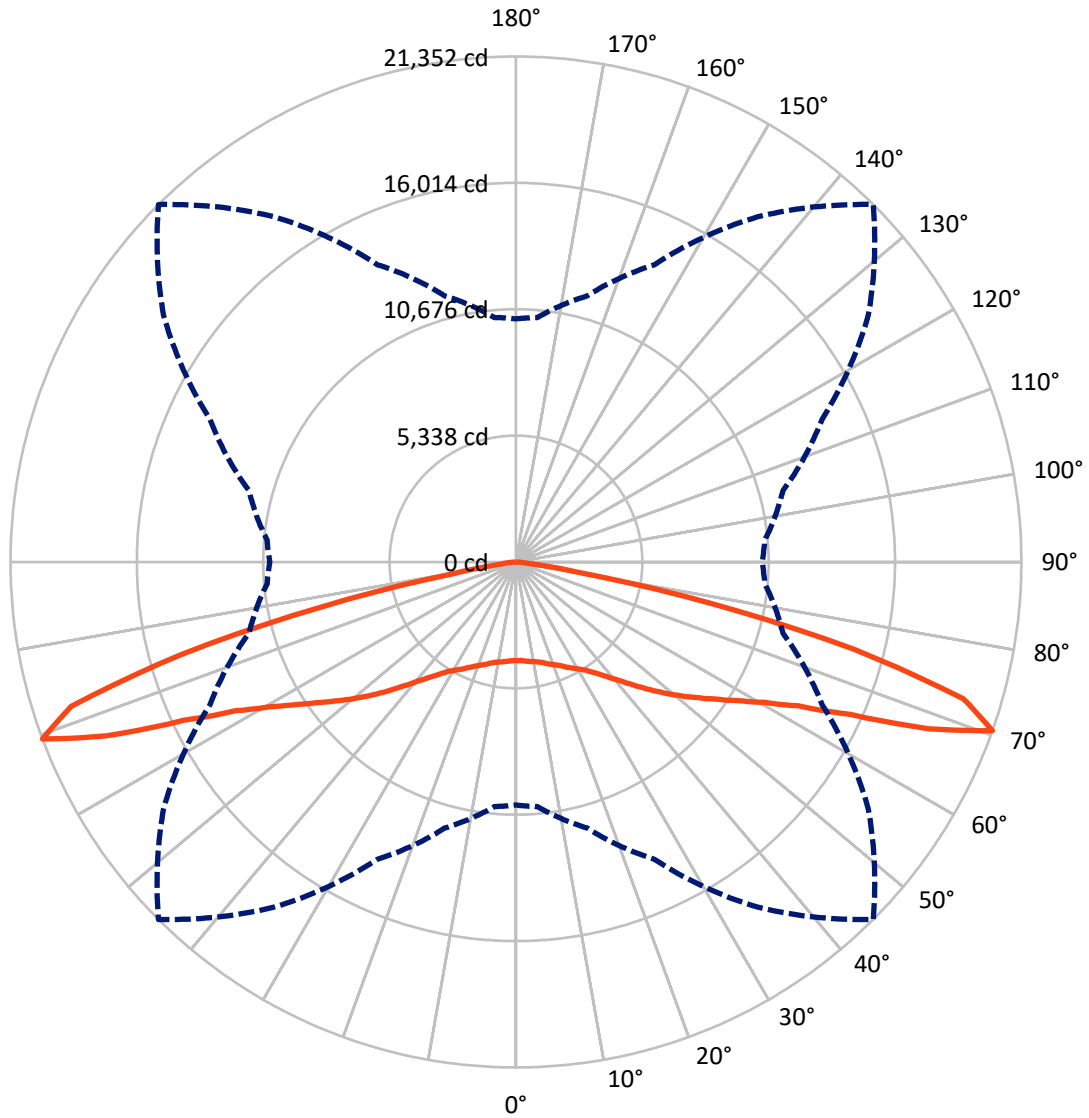
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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    | 21741.5  | 0.0    | 21741.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 21741.5  | 0.0    | 21741.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 43483.0  | 0.0    | 43483.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 404.6   | 0.9       |
| 10°-20°   | 1254.8  | 2.9       |
| 20°-30°   | 2242.4  | 5.2       |
| 30°-40°   | 3635.0  | 8.4       |
| 40°-50°   | 5920.8  | 13.6      |
| 50°-60°   | 9027.2  | 20.8      |
| 60°-70°   | 13429.5 | 30.9      |
| 70°-80°   | 7319.5  | 16.8      |
| 80°-90°   | 249.2   | 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°    | 43483.0 | 100.0     |
| 0°-180°   | 43483.0 | 100.0     |

**Coefficient of Utilization**



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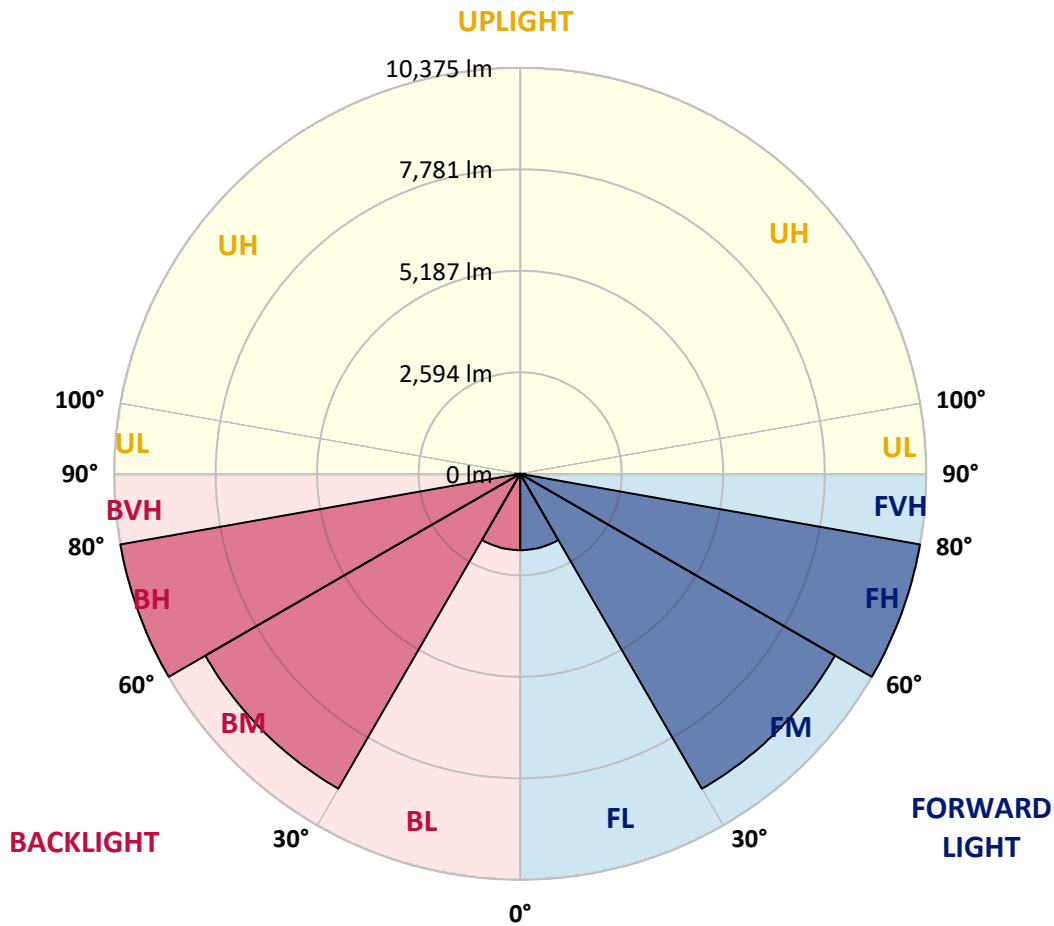
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1950.9  | 4.5       |                         |      |          |
| FM (30°-60°)   | 9291.4  | 21.4      |                         |      |          |
| FH (60°-80°)   | 10374.5 | 23.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 124.6   | 0.3       |                         |      | G2/225   |
| BL (0°-30°)    | 1950.9  | 4.5       | B3/2500                 |      |          |
| BM (30°-60°)   | 9291.4  | 21.4      | B5                      |      |          |
| BH (60°-80°)   | 10374.5 | 23.9      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 124.6   | 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°    | 4165.2  | 4165.2  | 4165.2  | 4165.2  | 4165.2  | 4165.2  | 4165.2  | 4165.2  | 4165.2  | 4165.2  |
| 2.5°  | 4184.9  | 4189.2  | 4180.5  | 4176.1  | 4171.8  | 4165.2  | 4167.4  | 4178.3  | 4187.1  | 4184.9  |
| 5°    | 4219.8  | 4224.2  | 4217.6  | 4215.4  | 4206.7  | 4204.5  | 4204.5  | 4215.4  | 4222.0  | 4217.6  |
| 7.5°  | 4259.1  | 4265.6  | 4254.7  | 4252.5  | 4248.2  | 4243.8  | 4241.6  | 4252.5  | 4259.1  | 4259.1  |
| 10°   | 4296.2  | 4302.8  | 4294.0  | 4287.5  | 4283.1  | 4283.1  | 4278.7  | 4287.5  | 4298.4  | 4296.2  |
| 12.5° | 4335.5  | 4339.9  | 4331.1  | 4326.8  | 4326.8  | 4333.3  | 4326.8  | 4331.1  | 4339.9  | 4335.5  |
| 15°   | 4383.5  | 4385.7  | 4383.5  | 4390.1  | 4401.0  | 4422.8  | 4403.2  | 4398.8  | 4403.2  | 4392.3  |
| 17.5° | 4449.0  | 4453.4  | 4462.1  | 4477.4  | 4492.7  | 4532.0  | 4497.0  | 4486.1  | 4486.1  | 4464.3  |
| 20°   | 4529.8  | 4536.3  | 4549.4  | 4575.6  | 4595.3  | 4632.4  | 4597.5  | 4582.2  | 4575.6  | 4547.3  |
| 22.5° | 4614.9  | 4625.8  | 4645.5  | 4680.4  | 4715.3  | 4750.3  | 4715.3  | 4689.1  | 4669.5  | 4632.4  |
| 25°   | 4713.2  | 4726.3  | 4756.8  | 4813.6  | 4861.6  | 4911.8  | 4870.3  | 4817.9  | 4778.7  | 4726.3  |
| 27.5° | 4852.9  | 4868.2  | 4905.3  | 4975.1  | 5036.3  | 5079.9  | 5040.6  | 4972.9  | 4918.4  | 4855.1  |
| 30°   | 5049.3  | 5064.6  | 5108.3  | 5182.5  | 5224.0  | 5252.4  | 5226.2  | 5173.8  | 5108.3  | 5036.3  |
| 32.5° | 5302.6  | 5322.2  | 5370.3  | 5440.1  | 5448.8  | 5453.2  | 5444.5  | 5418.3  | 5370.3  | 5282.9  |
| 35°   | 5623.5  | 5645.3  | 5699.9  | 5756.7  | 5747.9  | 5756.7  | 5743.6  | 5734.8  | 5699.9  | 5599.5  |
| 37.5° | 6016.4  | 6042.6  | 6099.4  | 6143.0  | 6121.2  | 6110.3  | 6112.5  | 6114.7  | 6095.0  | 5983.7  |
| 40°   | 6472.7  | 6507.6  | 6549.1  | 6594.9  | 6557.8  | 6525.1  | 6546.9  | 6564.4  | 6546.9  | 6433.4  |
| 42.5° | 6942.0  | 6992.2  | 7035.9  | 7101.4  | 7070.8  | 7029.4  | 7059.9  | 7079.6  | 7042.5  | 6920.2  |
| 45°   | 7463.8  | 7511.8  | 7568.6  | 7666.8  | 7645.0  | 7601.3  | 7645.0  | 7649.3  | 7586.0  | 7441.9  |
| 47.5° | 8003.0  | 8053.2  | 8138.3  | 8269.3  | 8260.6  | 8212.6  | 8269.3  | 8238.8  | 8158.0  | 7985.5  |
| 50°   | 8513.8  | 8583.7  | 8714.7  | 8898.0  | 8915.5  | 8856.6  | 8933.0  | 8874.0  | 8738.7  | 8522.5  |
| 52.5° | 8994.1  | 9068.3  | 9275.7  | 9524.6  | 9587.9  | 9511.5  | 9614.1  | 9511.5  | 9308.4  | 9031.2  |
| 55°   | 9498.4  | 9581.3  | 9828.0  | 10153.3 | 10279.9 | 10223.1 | 10319.2 | 10164.2 | 9876.0  | 9539.8  |
| 57.5° | 10092.1 | 10142.4 | 10437.1 | 10823.5 | 11037.4 | 11050.5 | 11094.2 | 10832.2 | 10482.9 | 10100.9 |
| 60°   | 10736.1 | 10806.0 | 11126.9 | 11589.7 | 11928.1 | 12037.2 | 11991.4 | 11602.8 | 11196.8 | 10758.0 |
| 62.5° | 11561.3 | 11637.7 | 12021.9 | 12576.4 | 13111.3 | 13382.0 | 13203.0 | 12639.7 | 12137.6 | 11611.5 |
| 65°   | 12244.6 | 12329.8 | 13024.0 | 14012.9 | 14986.5 | 15530.1 | 15080.4 | 14043.4 | 13139.7 | 12397.4 |
| 67.5° | 11749.1 | 11853.9 | 12943.2 | 14759.5 | 17180.4 | 18802.4 | 17263.4 | 14982.1 | 13211.7 | 12205.3 |
| 70°   | 10269.0 | 10367.2 | 11637.7 | 13857.9 | 17798.2 | 21352.2 | 18169.4 | 14266.1 | 11679.2 | 10552.8 |
| 72.5° | 6817.6  | 7134.1  | 8419.9  | 11083.2 | 15892.5 | 19758.6 | 16049.6 | 10858.4 | 7810.9  | 6802.3  |
| 75°   | 2261.6  | 2514.9  | 3392.4  | 5745.7  | 10644.5 | 14776.9 | 10133.6 | 5084.3  | 2687.3  | 1934.2  |
| 77.5° | 569.8   | 657.1   | 906.0   | 1643.8  | 4246.0  | 8413.4  | 3822.5  | 1342.6  | 731.3   | 510.8   |
| 80°   | 277.2   | 305.6   | 436.6   | 547.9   | 1063.1  | 2674.2  | 997.6   | 515.2   | 344.9   | 266.3   |
| 82.5° | 152.8   | 155.0   | 246.7   | 310.0   | 395.1   | 692.0   | 410.4   | 301.3   | 198.7   | 161.5   |
| 85°   | 93.9    | 91.7    | 131.0   | 165.9   | 165.9   | 246.7   | 196.5   | 165.9   | 113.5   | 100.4   |
| 87.5° | 37.1    | 37.1    | 48.0    | 52.4    | 45.8    | 63.3    | 50.2    | 54.6    | 43.7    | 41.5    |
| 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°     |
|---------|
| 4165.2  |
| 4187.1  |
| 4219.8  |
| 4259.1  |
| 4296.2  |
| 4333.3  |
| 4392.3  |
| 4464.3  |
| 4547.3  |
| 4630.2  |
| 4724.1  |
| 4852.9  |
| 5036.3  |
| 5285.1  |
| 5599.5  |
| 5983.7  |
| 6433.4  |
| 6928.9  |
| 7457.2  |
| 7974.6  |
| 8518.2  |
| 9005.0  |
| 9494.0  |
| 10048.5 |
| 10688.1 |
| 11519.8 |
| 12275.2 |
| 12054.7 |
| 10402.1 |
| 6581.8  |
| 1829.4  |
| 456.3   |
| 244.5   |
| 161.5   |
| 104.8   |
| 43.7    |
| 0.0     |

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