

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: P944460

Luminaire Tested: **GALN-SB9B-935-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944460  
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-SB9B-935-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

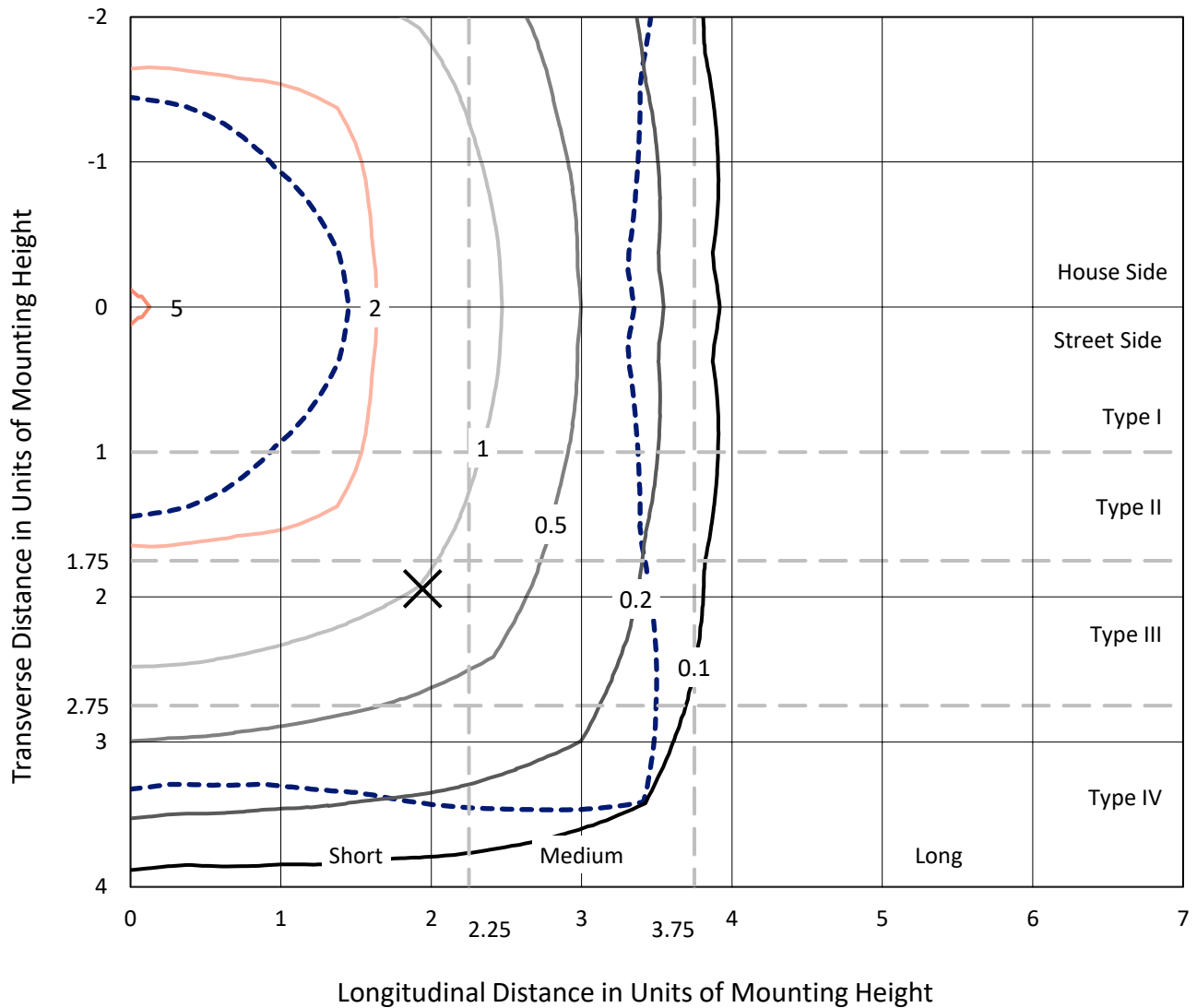
Lumens per Lamp: N/A  
Luminaire Lumens: 36090 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

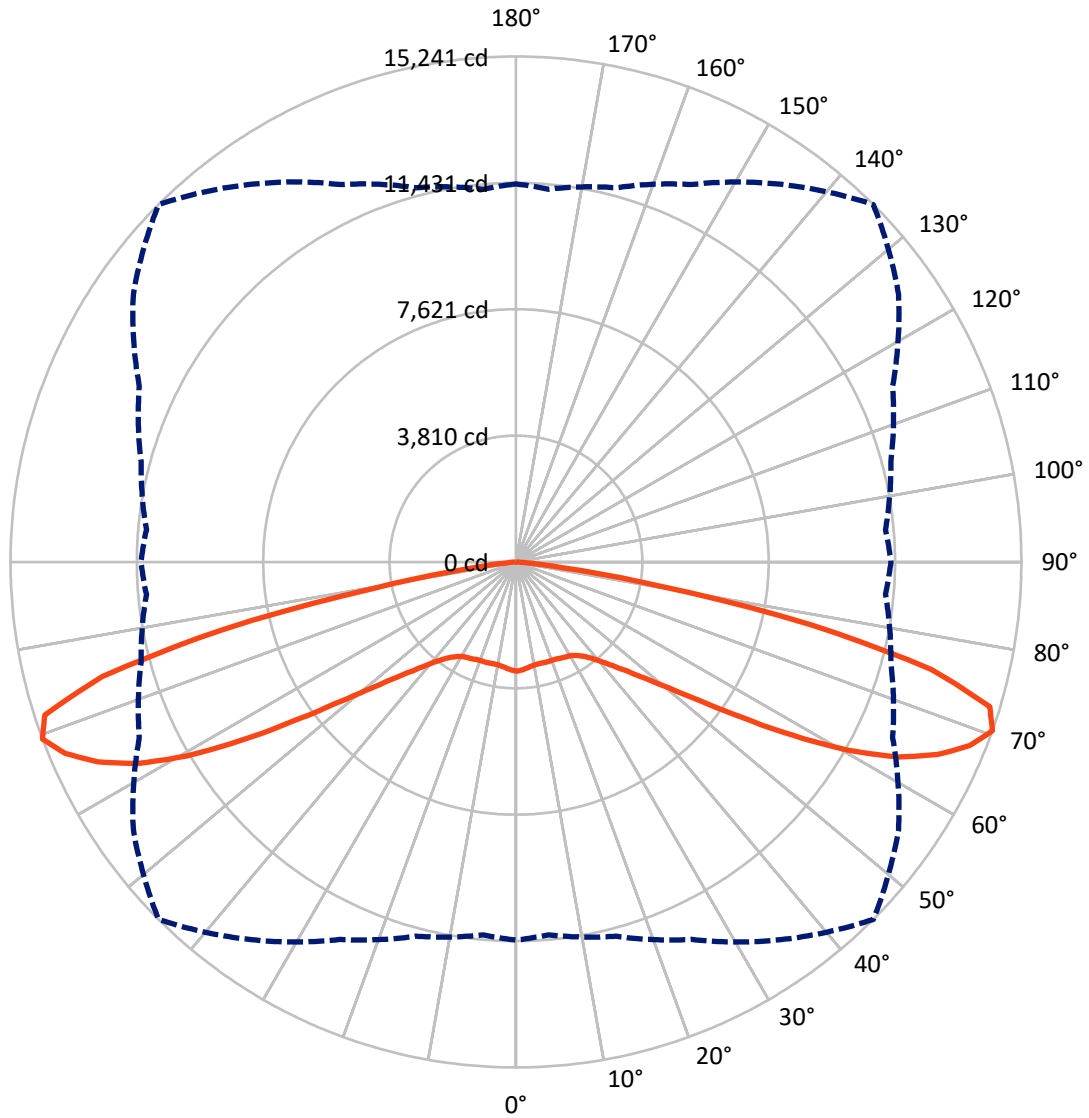
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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    | 18045.0  | 0.0    | 18045.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18045.0  | 0.0    | 18045.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 36090.0  | 0.0    | 36090.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 306.2   | 0.8       |
| 10°-20°   | 899.2   | 2.5       |
| 20°-30°   | 1496.4  | 4.1       |
| 30°-40°   | 2263.0  | 6.3       |
| 40°-50°   | 3760.6  | 10.4      |
| 50°-60°   | 7096.2  | 19.7      |
| 60°-70°   | 11982.2 | 33.2      |
| 70°-80°   | 7873.6  | 21.8      |
| 80°-90°   | 412.5   | 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°    | 36090.0 | 100.0     |
| 0°-180°   | 36090.0 | 100.0     |



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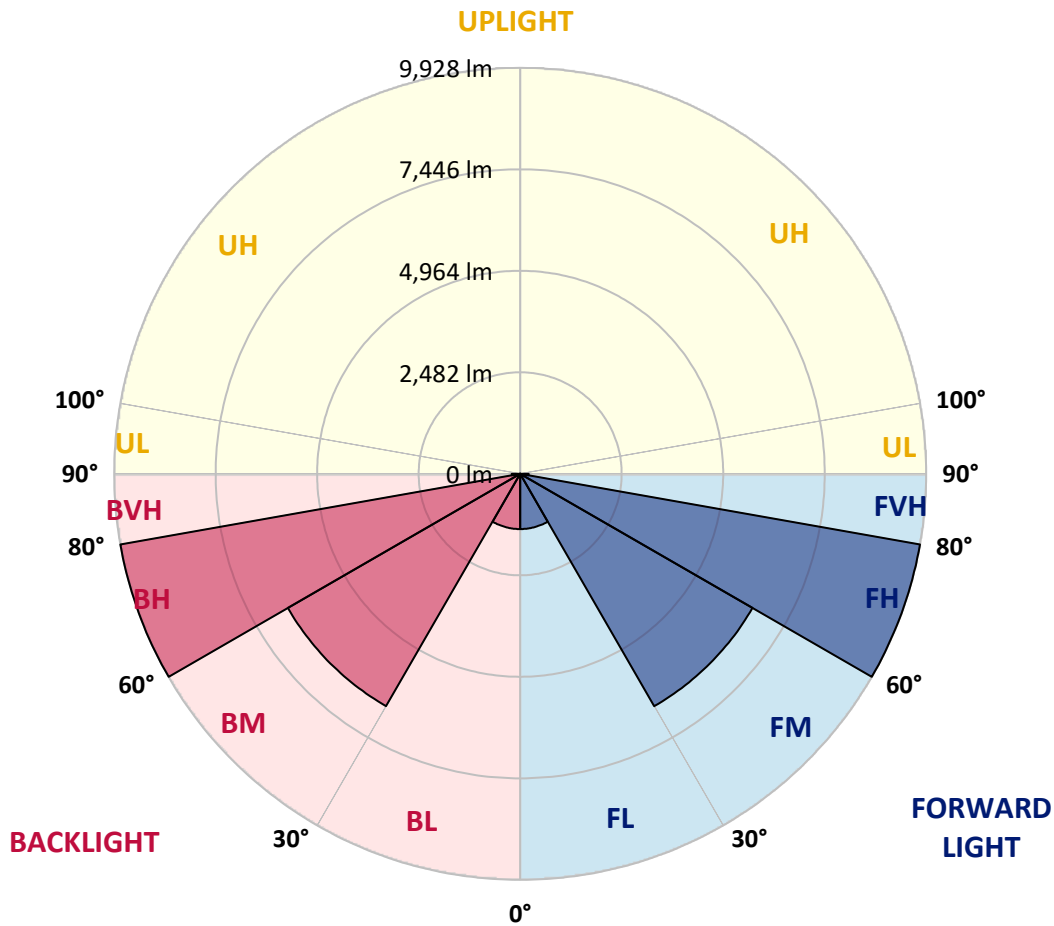
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1350.9 | 3.7       |                         |      |          |
| FM (30°-60°)   | 6559.9 | 18.2      |                         |      |          |
| FH (60°-80°)   | 9927.9 | 27.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 206.2  | 0.6       |                         |      | G2/225   |
| BL (0°-30°)    | 1350.9 | 3.7       | B3/2500                 |      |          |
| BM (30°-60°)   | 6559.9 | 18.2      | B4/8500                 |      |          |
| BH (60°-80°)   | 9927.9 | 27.5      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 206.2  | 0.6       |                         |      | 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°    | 3292.1  | 3292.1  | 3292.1  | 3292.1  | 3292.1  | 3292.1  | 3292.1  | 3292.1  | 3292.1  | 3292.1  |
| 2.5°  | 3271.5  | 3280.9  | 3277.1  | 3269.6  | 3269.6  | 3264.0  | 3269.6  | 3273.4  | 3279.0  | 3282.8  |
| 5°    | 3228.4  | 3235.9  | 3234.0  | 3228.4  | 3230.2  | 3224.6  | 3228.4  | 3234.0  | 3237.7  | 3239.6  |
| 7.5°  | 3190.8  | 3198.3  | 3194.6  | 3185.2  | 3185.2  | 3179.6  | 3181.5  | 3187.1  | 3192.7  | 3194.6  |
| 10°   | 3181.5  | 3189.0  | 3177.7  | 3162.7  | 3157.1  | 3149.6  | 3151.4  | 3157.1  | 3168.3  | 3174.0  |
| 12.5° | 3185.2  | 3190.8  | 3179.6  | 3157.1  | 3151.4  | 3143.9  | 3143.9  | 3149.6  | 3164.6  | 3172.1  |
| 15°   | 3196.5  | 3202.1  | 3185.2  | 3160.8  | 3155.2  | 3149.6  | 3147.7  | 3155.2  | 3172.1  | 3185.2  |
| 17.5° | 3217.1  | 3222.7  | 3196.5  | 3162.7  | 3155.2  | 3157.1  | 3155.2  | 3160.8  | 3187.1  | 3211.5  |
| 20°   | 3235.9  | 3239.6  | 3204.0  | 3162.7  | 3155.2  | 3157.1  | 3155.2  | 3166.5  | 3200.2  | 3234.0  |
| 22.5° | 3241.5  | 3245.2  | 3211.5  | 3175.8  | 3170.2  | 3172.1  | 3170.2  | 3181.5  | 3213.3  | 3247.1  |
| 25°   | 3243.4  | 3249.0  | 3222.7  | 3194.6  | 3204.0  | 3207.7  | 3204.0  | 3205.8  | 3230.2  | 3260.2  |
| 27.5° | 3271.5  | 3279.0  | 3254.6  | 3230.2  | 3235.9  | 3234.0  | 3239.6  | 3245.2  | 3264.0  | 3294.0  |
| 30°   | 3329.7  | 3335.3  | 3314.6  | 3290.3  | 3286.5  | 3273.4  | 3290.3  | 3309.0  | 3329.7  | 3355.9  |
| 32.5° | 3425.3  | 3436.6  | 3410.3  | 3384.1  | 3367.2  | 3359.7  | 3372.8  | 3404.7  | 3432.8  | 3461.0  |
| 35°   | 3584.8  | 3592.3  | 3567.9  | 3519.1  | 3489.1  | 3489.1  | 3500.4  | 3541.6  | 3586.6  | 3622.3  |
| 37.5° | 3809.9  | 3819.3  | 3776.1  | 3718.0  | 3672.9  | 3672.9  | 3687.9  | 3731.1  | 3798.6  | 3849.3  |
| 40°   | 4083.7  | 4096.9  | 4042.5  | 3982.5  | 3939.3  | 3931.8  | 3950.6  | 3999.3  | 4063.1  | 4126.9  |
| 42.5° | 4413.9  | 4428.9  | 4357.6  | 4305.1  | 4271.3  | 4271.3  | 4280.7  | 4325.7  | 4383.9  | 4462.7  |
| 45°   | 4836.0  | 4862.2  | 4764.7  | 4712.2  | 4680.3  | 4687.8  | 4693.4  | 4732.8  | 4785.3  | 4875.4  |
| 47.5° | 5338.7  | 5365.0  | 5261.8  | 5207.4  | 5201.8  | 5237.4  | 5214.9  | 5243.0  | 5271.2  | 5374.3  |
| 50°   | 5909.0  | 5954.0  | 5882.7  | 5878.9  | 5890.2  | 5955.9  | 5903.3  | 5918.3  | 5886.4  | 5952.1  |
| 52.5° | 6606.8  | 6672.4  | 6659.3  | 6681.8  | 6807.5  | 6942.6  | 6822.5  | 6770.0  | 6649.9  | 6670.6  |
| 55°   | 7452.8  | 7552.2  | 7571.0  | 7706.0  | 7991.2  | 8266.9  | 8011.8  | 7799.8  | 7544.7  | 7497.8  |
| 57.5° | 8415.1  | 8493.9  | 8583.9  | 8859.7  | 9392.4  | 9882.0  | 9392.4  | 8923.5  | 8522.0  | 8426.4  |
| 60°   | 9450.6  | 9548.1  | 9634.4  | 10041.5 | 10833.1 | 11521.5 | 10818.1 | 10073.4 | 9542.5  | 9413.1  |
| 62.5° | 10563.0 | 10688.7 | 10748.7 | 11200.8 | 12123.7 | 12945.3 | 12136.8 | 11234.5 | 10645.5 | 10506.7 |
| 65°   | 11630.3 | 11733.5 | 11801.0 | 12283.1 | 13164.8 | 13988.3 | 13224.8 | 12335.7 | 11729.8 | 11547.8 |
| 67.5° | 12127.4 | 12183.7 | 12348.8 | 12894.7 | 13825.1 | 14764.9 | 13982.7 | 12952.8 | 12275.6 | 11956.7 |
| 70°   | 11399.6 | 11285.2 | 11682.9 | 12557.0 | 13903.9 | 15241.4 | 14084.0 | 12530.7 | 11701.6 | 11183.9 |
| 72.5° | 8809.0  | 8612.1  | 9302.4  | 10797.5 | 13003.5 | 14937.5 | 13093.5 | 10881.9 | 9732.0  | 8681.5  |
| 75°   | 4792.8  | 4569.6  | 5522.5  | 7413.4  | 10369.8 | 12947.2 | 10608.0 | 7625.4  | 6149.1  | 4757.2  |
| 77.5° | 1352.5  | 1268.1  | 2037.2  | 3586.6  | 6237.2  | 9090.4  | 6477.3  | 3665.4  | 2416.1  | 1433.2  |
| 80°   | 414.6   | 401.4   | 544.0   | 1080.5  | 2648.7  | 4353.9  | 2545.5  | 1093.6  | 692.2   | 437.1   |
| 82.5° | 245.7   | 225.1   | 270.1   | 393.9   | 675.3   | 1367.5  | 656.6   | 410.8   | 330.2   | 221.4   |
| 85°   | 140.7   | 131.3   | 159.4   | 191.3   | 227.0   | 290.8   | 189.5   | 195.1   | 176.3   | 118.2   |
| 87.5° | 58.2    | 52.5    | 61.9    | 60.0    | 52.5    | 67.5    | 50.6    | 60.0    | 71.3    | 46.9    |
| 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°     |
|---------|
| 3292.1  |
| 3280.9  |
| 3239.6  |
| 3194.6  |
| 3174.0  |
| 3174.0  |
| 3187.1  |
| 3211.5  |
| 3235.9  |
| 3247.1  |
| 3258.4  |
| 3286.5  |
| 3350.3  |
| 3449.7  |
| 3609.2  |
| 3830.5  |
| 4106.3  |
| 4457.0  |
| 4871.6  |
| 5344.3  |
| 5912.7  |
| 6601.2  |
| 7424.7  |
| 8358.8  |
| 9300.5  |
| 10394.1 |
| 11457.8 |
| 11960.5 |
| 11307.7 |
| 8942.2  |
| 5066.7  |
| 1592.6  |
| 461.5   |
| 240.1   |
| 123.8   |
| 43.1    |
| 0.0     |

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