

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: P956423

Luminaire Tested: **GALN-SB9A-830-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956423  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9A-830-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

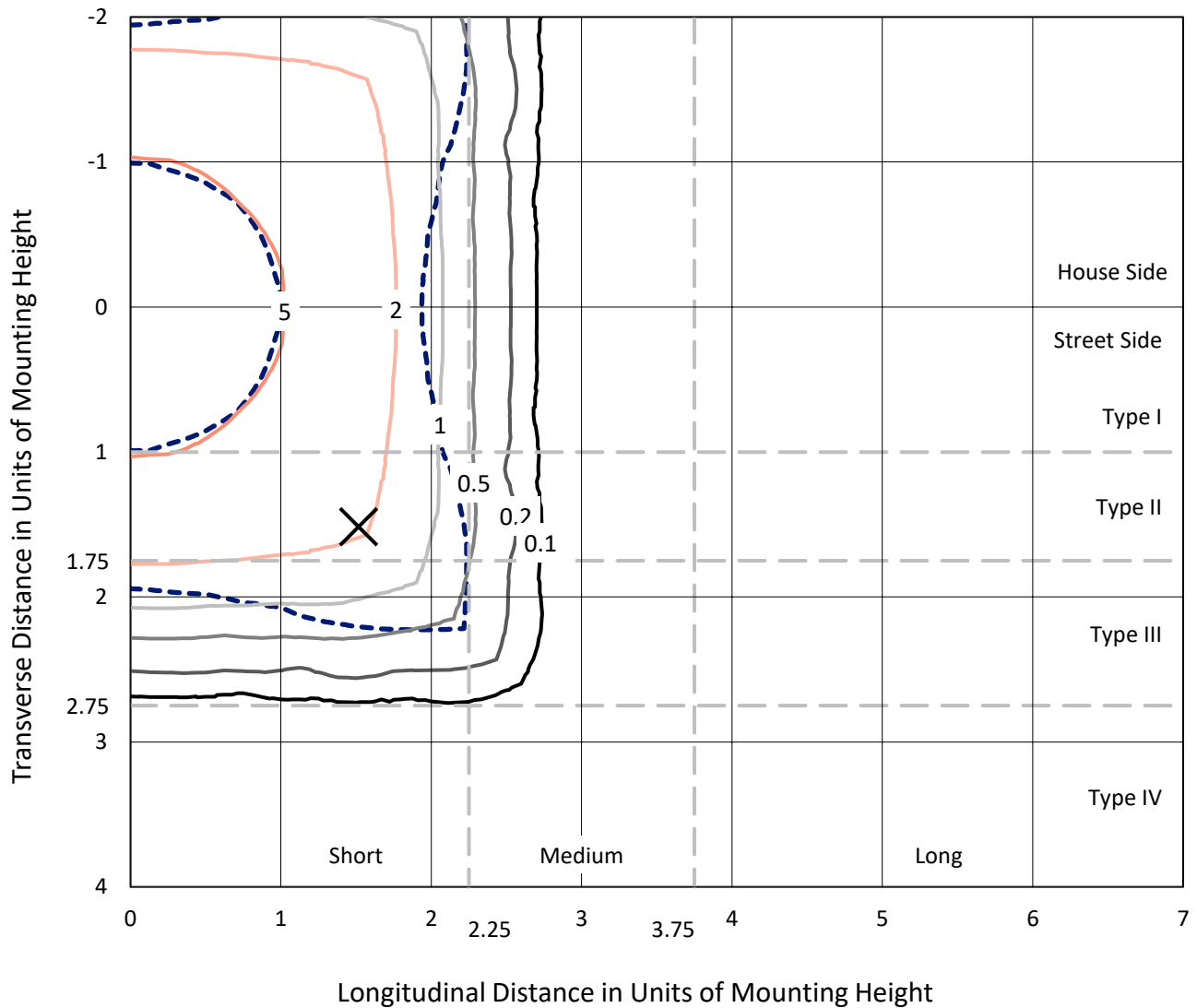
Lumens per Lamp: N/A  
Luminaire Lumens: 38471 lumens  
Efficiency: N/A  
Efficacy: 150.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

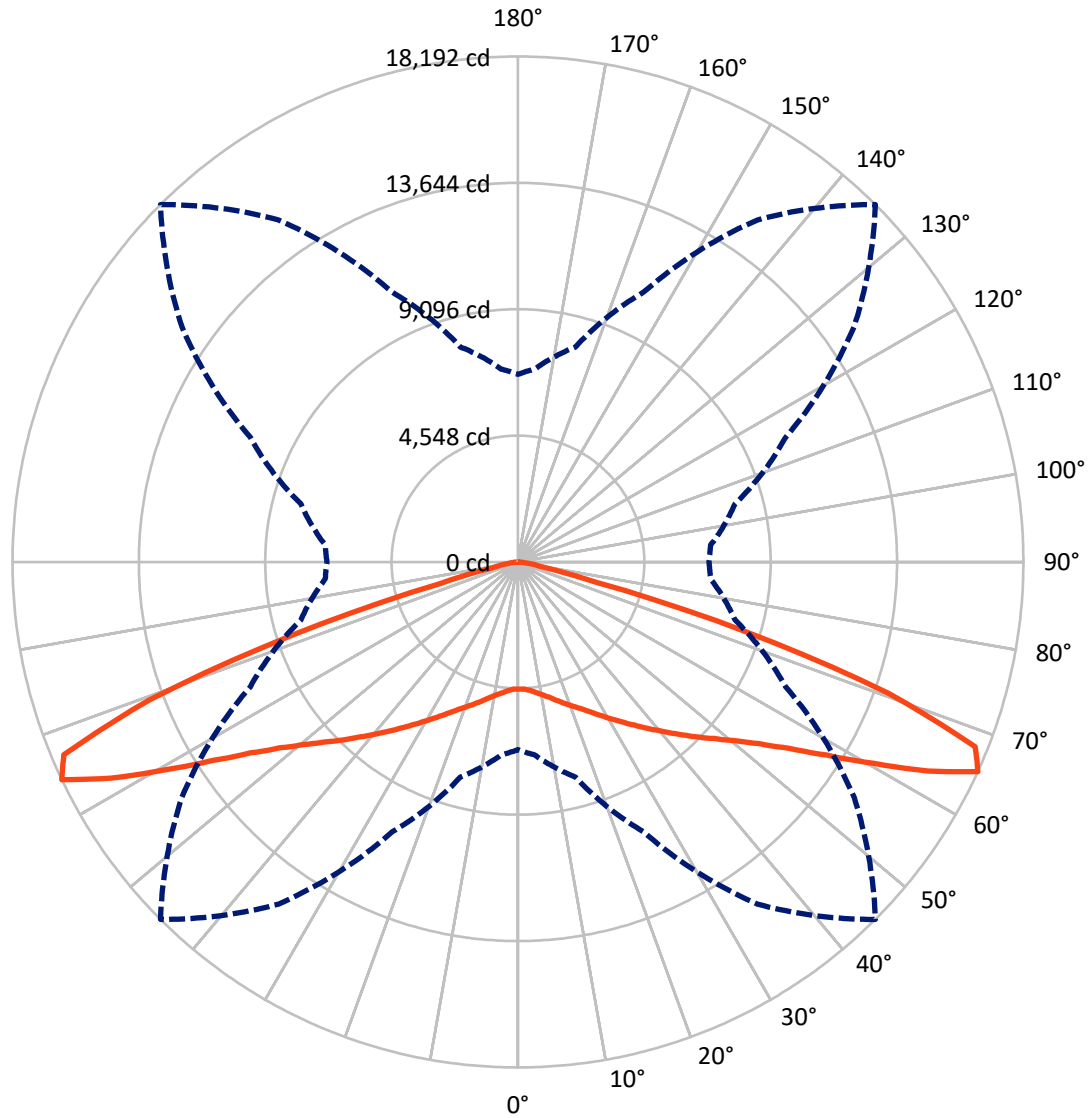
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19235.5  | 0.0    | 19235.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19235.5  | 0.0    | 19235.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 38471.0  | 0.0    | 38471.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 451.8   | 1.2       |
| 10°-20°   | 1474.4  | 3.8       |
| 20°-30°   | 2783.9  | 7.2       |
| 30°-40°   | 4558.5  | 11.8      |
| 40°-50°   | 7068.0  | 18.4      |
| 50°-60°   | 10440.8 | 27.1      |
| 60°-70°   | 9938.7  | 25.8      |
| 70°-80°   | 1603.7  | 4.2       |
| 80°-90°   | 151.2   | 0.4       |
| 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°    | 38471.0 | 100.0     |
| 0°-180°   | 38471.0 | 100.0     |



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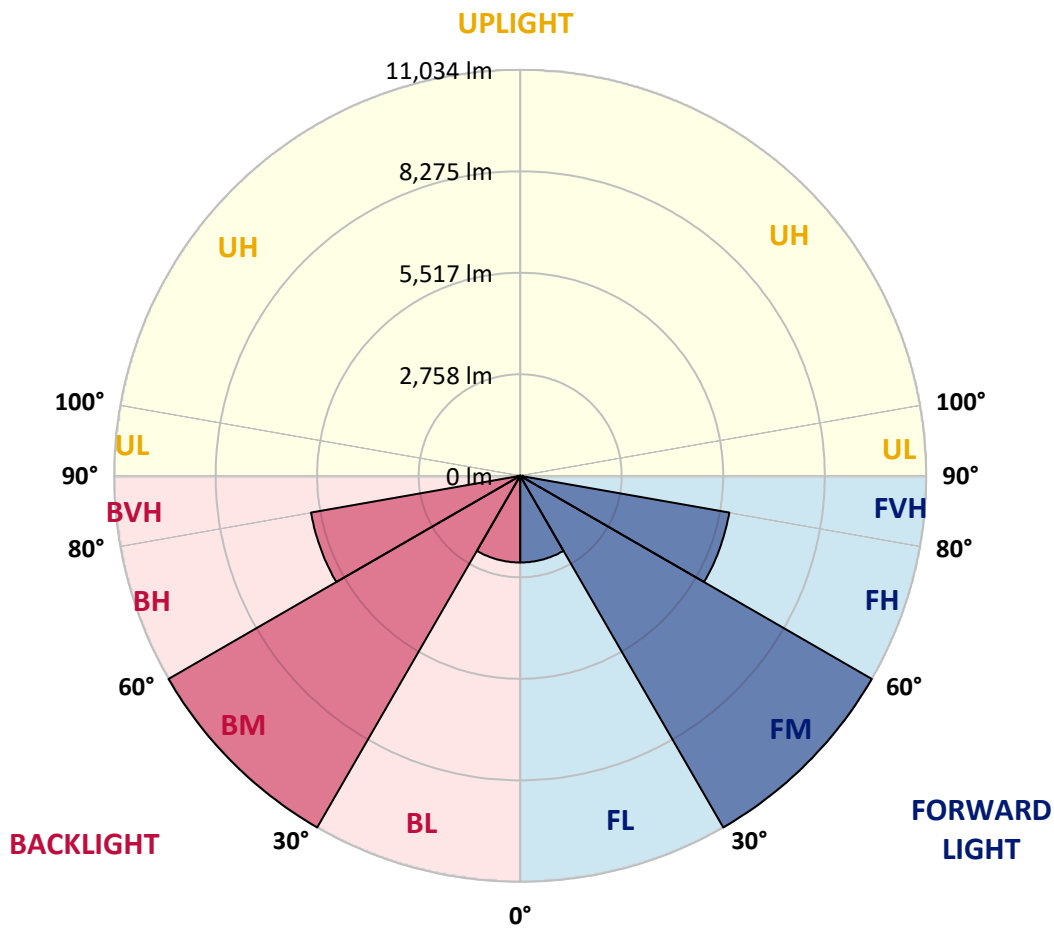
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2355.1  | 6.1       |                         |      |         |
| FM (30°-60°)   | 11033.6 | 28.7      |                         |      |         |
| FH (60°-80°)   | 5771.2  | 15.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 75.6    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2355.1  | 6.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 11033.6 | 28.7      | B5                      |      |         |
| BH (60°-80°)   | 5771.2  | 15.0      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 75.6    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4578.4  | 4578.4  | 4578.4  | 4578.4  | 4578.4  | 4578.4  | 4578.4  | 4578.4  | 4578.4  | 4578.4  |
| 2.5°  | 4609.3  | 4593.9  | 4605.5  | 4595.8  | 4588.1  | 4580.4  | 4584.2  | 4597.7  | 4603.5  | 4605.5  |
| 5°    | 4671.1  | 4657.6  | 4663.4  | 4663.4  | 4649.9  | 4646.0  | 4647.9  | 4657.6  | 4669.2  | 4669.2  |
| 7.5°  | 4771.5  | 4757.9  | 4771.5  | 4763.7  | 4752.2  | 4748.3  | 4746.4  | 4754.1  | 4771.5  | 4771.5  |
| 10°   | 4893.1  | 4877.6  | 4885.3  | 4881.5  | 4868.0  | 4862.2  | 4860.2  | 4871.8  | 4887.3  | 4885.3  |
| 12.5° | 5026.2  | 5008.9  | 5018.5  | 5006.9  | 5003.1  | 4997.3  | 4997.3  | 4995.4  | 5005.0  | 4997.3  |
| 15°   | 5174.9  | 5163.3  | 5167.1  | 5159.4  | 5165.2  | 5161.4  | 5145.9  | 5138.2  | 5142.1  | 5130.5  |
| 17.5° | 5350.5  | 5323.5  | 5337.0  | 5333.1  | 5333.1  | 5340.9  | 5315.8  | 5306.1  | 5313.8  | 5302.3  |
| 20°   | 5553.2  | 5526.2  | 5532.0  | 5524.2  | 5514.6  | 5522.3  | 5491.4  | 5499.1  | 5504.9  | 5497.2  |
| 22.5° | 5775.2  | 5740.4  | 5738.5  | 5742.3  | 5721.1  | 5723.0  | 5701.8  | 5721.1  | 5732.7  | 5711.5  |
| 25°   | 6002.9  | 5966.2  | 5991.3  | 5981.7  | 5954.7  | 5960.5  | 5945.0  | 5964.3  | 5974.0  | 5946.9  |
| 27.5° | 6244.2  | 6219.1  | 6242.3  | 6248.1  | 6215.2  | 6238.4  | 6215.2  | 6232.6  | 6242.3  | 6201.7  |
| 30°   | 6526.0  | 6500.9  | 6522.1  | 6537.6  | 6499.0  | 6535.7  | 6516.4  | 6527.9  | 6529.9  | 6481.6  |
| 32.5° | 6832.9  | 6794.3  | 6848.3  | 6856.1  | 6813.6  | 6858.0  | 6832.9  | 6848.3  | 6858.0  | 6792.4  |
| 35°   | 7207.4  | 7159.1  | 7220.9  | 7211.2  | 7174.6  | 7211.2  | 7188.1  | 7211.2  | 7234.4  | 7155.3  |
| 37.5° | 7610.8  | 7560.6  | 7626.2  | 7608.8  | 7574.1  | 7599.2  | 7585.7  | 7601.1  | 7637.8  | 7552.9  |
| 40°   | 8054.7  | 7993.0  | 8081.7  | 8050.9  | 8018.0  | 8014.2  | 8021.9  | 8031.6  | 8079.8  | 7985.2  |
| 42.5° | 8529.6  | 8463.9  | 8597.1  | 8548.9  | 8502.5  | 8471.6  | 8496.7  | 8516.0  | 8562.4  | 8456.2  |
| 45°   | 9071.9  | 8996.7  | 9170.4  | 9112.5  | 9039.1  | 8975.4  | 9016.0  | 9044.9  | 9112.5  | 8985.1  |
| 47.5° | 9670.3  | 9585.4  | 9770.7  | 9753.3  | 9633.6  | 9494.7  | 9587.3  | 9670.3  | 9720.5  | 9566.1  |
| 50°   | 10255.2 | 10189.5 | 10432.7 | 10454.0 | 10307.3 | 10112.3 | 10241.6 | 10367.1 | 10380.6 | 10177.9 |
| 52.5° | 10803.3 | 10737.7 | 11090.9 | 11224.1 | 11092.9 | 10861.2 | 10998.3 | 11125.7 | 11023.4 | 10760.9 |
| 55°   | 11241.5 | 11187.4 | 11637.2 | 11980.7 | 12025.1 | 11834.1 | 11915.1 | 11911.3 | 11575.4 | 11172.0 |
| 57.5° | 11347.6 | 11339.9 | 11907.4 | 12635.1 | 13098.3 | 13121.5 | 12961.3 | 12552.1 | 11828.3 | 11285.9 |
| 60°   | 10865.1 | 10913.3 | 11693.1 | 12976.7 | 14212.1 | 14725.5 | 14032.6 | 12864.8 | 11540.7 | 10787.9 |
| 62.5° | 9421.3  | 9548.7  | 10488.7 | 12559.8 | 15111.5 | 16570.8 | 14891.5 | 12390.0 | 10359.4 | 9376.9  |
| 65°   | 6751.8  | 6973.8  | 8012.3  | 10718.4 | 15030.5 | 18192.1 | 14768.0 | 10631.5 | 8089.5  | 6956.4  |
| 67.5° | 3063.2  | 3289.1  | 4171.2  | 7338.6  | 13065.5 | 17752.0 | 13034.6 | 7415.8  | 4379.6  | 3300.6  |
| 70°   | 1109.9  | 1148.5  | 1432.2  | 2937.8  | 8350.0  | 14144.5 | 8707.1  | 2959.0  | 1522.9  | 1223.7  |
| 72.5° | 671.7   | 677.5   | 737.3   | 1052.0  | 2901.1  | 8587.5  | 3024.6  | 1086.7  | 752.8   | 667.8   |
| 75°   | 426.6   | 422.7   | 525.0   | 642.8   | 1028.8  | 2897.2  | 1079.0  | 642.8   | 523.1   | 476.8   |
| 77.5° | 306.9   | 316.6   | 376.4   | 480.6   | 648.5   | 982.5   | 637.0   | 459.4   | 376.4   | 308.8   |
| 80°   | 229.7   | 235.5   | 274.1   | 374.5   | 455.5   | 611.9   | 405.3   | 339.7   | 283.7   | 193.0   |
| 82.5° | 166.0   | 166.0   | 179.5   | 272.2   | 277.9   | 330.1   | 220.0   | 239.3   | 187.2   | 137.0   |
| 85°   | 98.4    | 96.5    | 112.0   | 162.1   | 144.8   | 121.6   | 100.4   | 146.7   | 117.7   | 84.9    |
| 87.5° | 34.7    | 36.7    | 34.7    | 46.3    | 38.6    | 32.8    | 30.9    | 40.5    | 32.8    | 29.0    |
| 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°     |
|---------|
| 4578.4  |
| 4605.5  |
| 4669.2  |
| 4765.7  |
| 4881.5  |
| 5001.1  |
| 5132.4  |
| 5311.9  |
| 5514.6  |
| 5732.7  |
| 5977.8  |
| 6232.6  |
| 6510.6  |
| 6836.8  |
| 7203.5  |
| 7605.0  |
| 8016.1  |
| 8512.2  |
| 9050.7  |
| 9618.2  |
| 10203.0 |
| 10768.6 |
| 11185.5 |
| 11251.1 |
| 10699.1 |
| 9319.0  |
| 6873.4  |
| 3252.4  |
| 1208.3  |
| 679.4   |
| 480.6   |
| 314.6   |
| 198.8   |
| 137.0   |
| 83.0    |
| 27.0    |
| 0.0     |

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