

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: P948610

Luminaire Tested: **GALN-SB3C-840-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948610  
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-SB3C-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

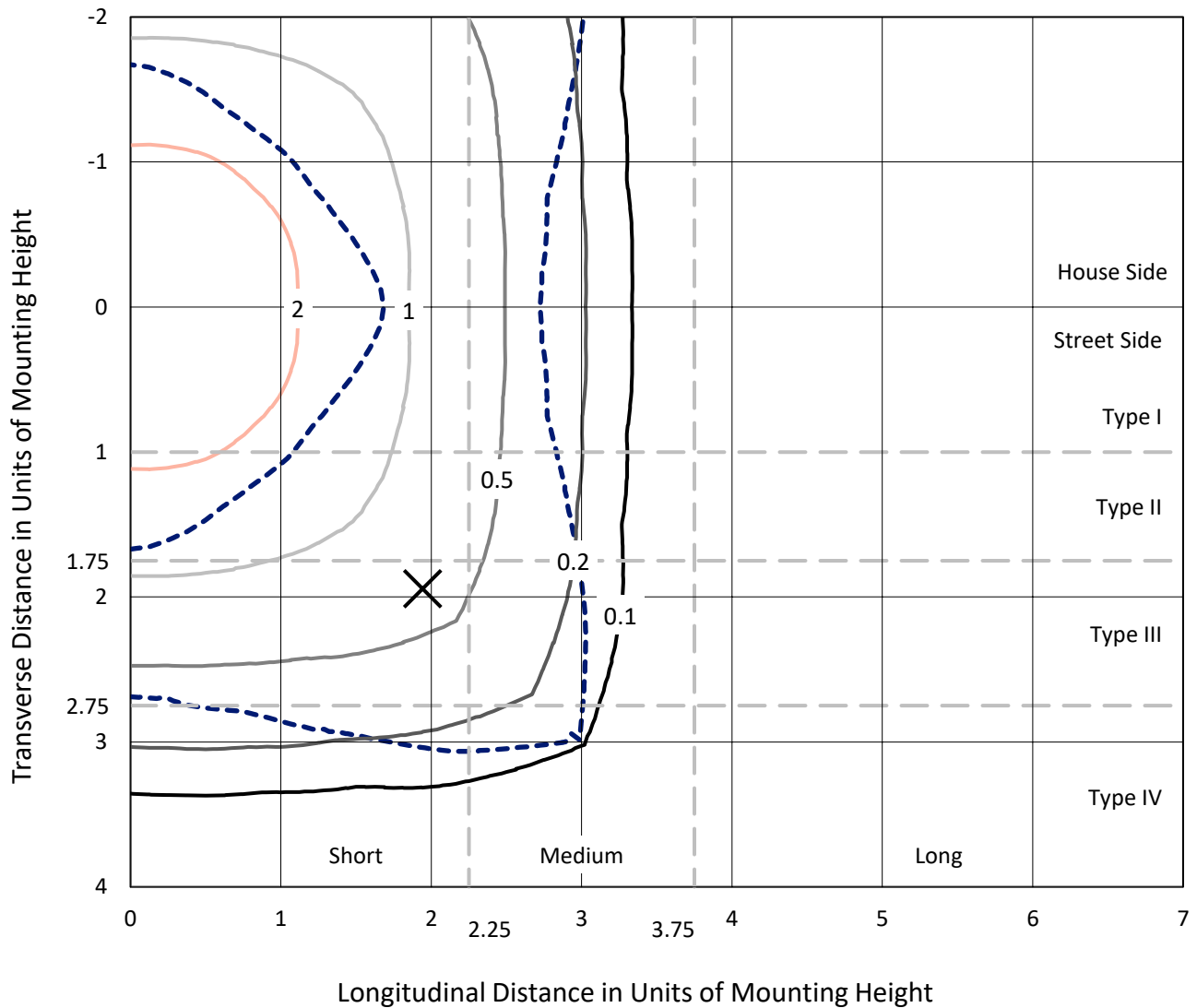
Lumens per Lamp: N/A  
Luminaire Lumens: 22509 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

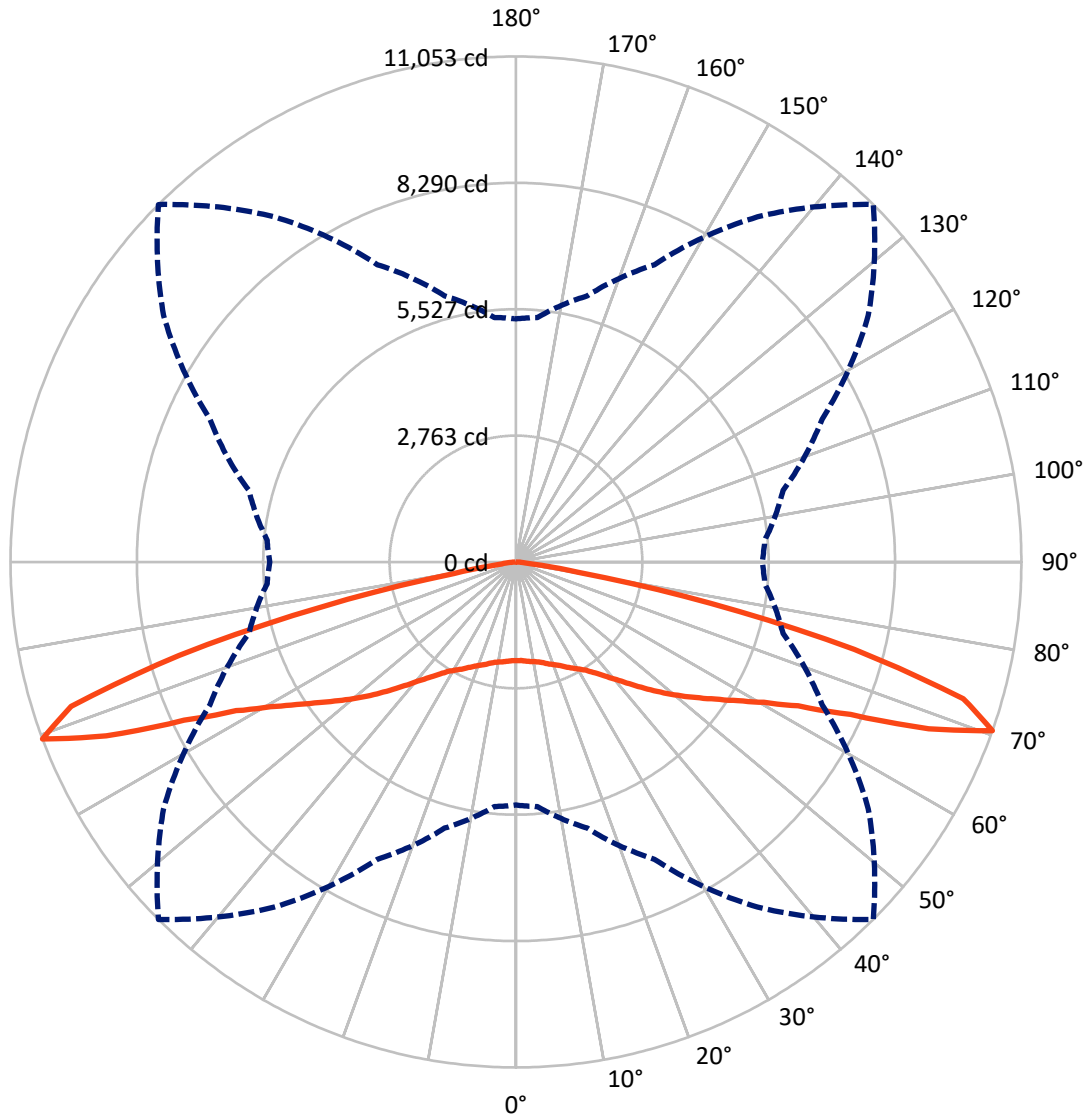
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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    | 11254.5  | 0.0    | 11254.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11254.5  | 0.0    | 11254.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22509.0  | 0.0    | 22509.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 209.5   | 0.9       |
| 10°-20°   | 649.5   | 2.9       |
| 20°-30°   | 1160.8  | 5.2       |
| 30°-40°   | 1881.6  | 8.4       |
| 40°-50°   | 3064.9  | 13.6      |
| 50°-60°   | 4672.9  | 20.8      |
| 60°-70°   | 6951.8  | 30.9      |
| 70°-80°   | 3789.0  | 16.8      |
| 80°-90°   | 129.0   | 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°    | 22509.0 | 100.0     |
| 0°-180°   | 22509.0 | 100.0     |



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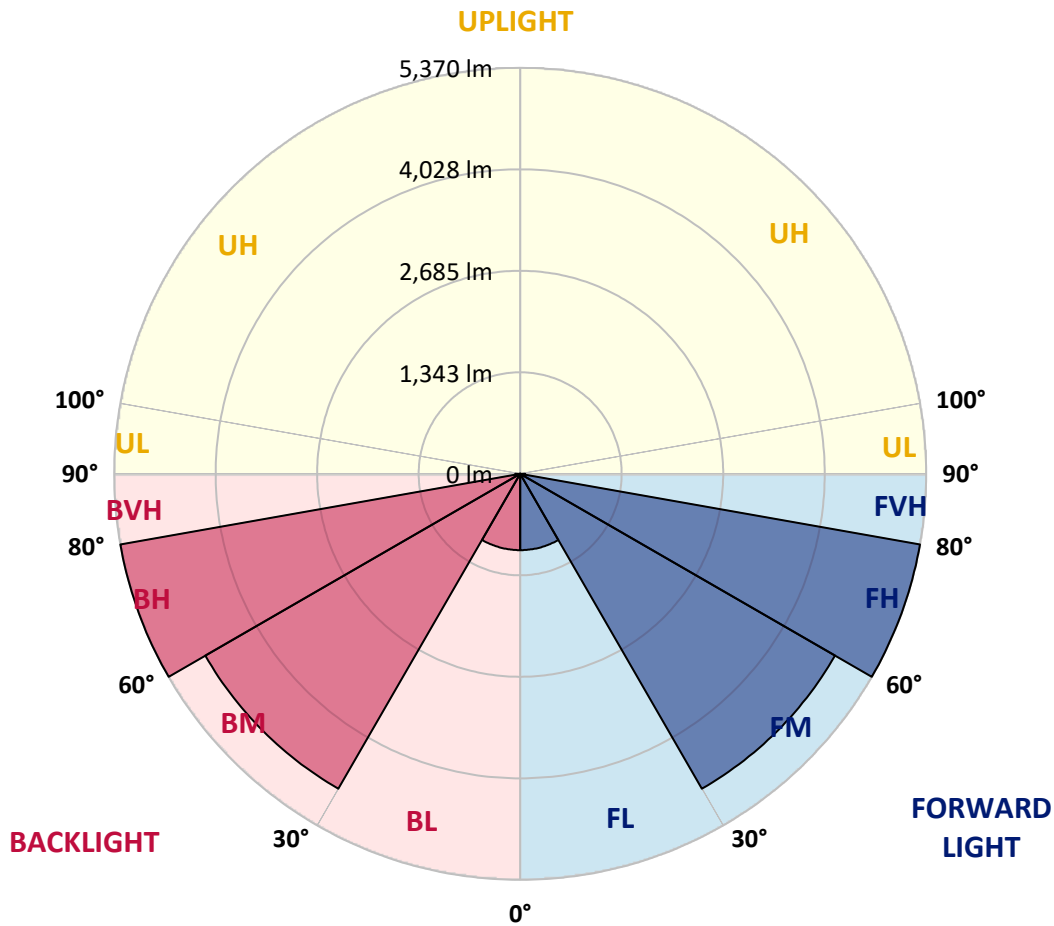
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1009.9 | 4.5       |                         |      |         |
| FM (30°-60°)   | 4809.7 | 21.4      |                         |      |         |
| FH (60°-80°)   | 5370.4 | 23.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 64.5   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1009.9 | 4.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 4809.7 | 21.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 5370.4 | 23.9      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 64.5   | 0.3       |                         |      | 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°    | 2156.1 | 2156.1 | 2156.1 | 2156.1 | 2156.1 | 2156.1  | 2156.1 | 2156.1 | 2156.1 | 2156.1 |
| 2.5°  | 2166.3 | 2168.6 | 2164.0 | 2161.8 | 2159.5 | 2156.1  | 2157.3 | 2162.9 | 2167.4 | 2166.3 |
| 5°    | 2184.4 | 2186.6 | 2183.3 | 2182.1 | 2177.6 | 2176.5  | 2176.5 | 2182.1 | 2185.5 | 2183.3 |
| 7.5°  | 2204.7 | 2208.1 | 2202.5 | 2201.3 | 2199.1 | 2196.8  | 2195.7 | 2201.3 | 2204.7 | 2204.7 |
| 10°   | 2223.9 | 2227.3 | 2222.8 | 2219.4 | 2217.2 | 2217.2  | 2214.9 | 2219.4 | 2225.1 | 2223.9 |
| 12.5° | 2244.3 | 2246.5 | 2242.0 | 2239.8 | 2239.8 | 2243.1  | 2239.8 | 2242.0 | 2246.5 | 2244.3 |
| 15°   | 2269.1 | 2270.3 | 2269.1 | 2272.5 | 2278.2 | 2289.5  | 2279.3 | 2277.0 | 2279.3 | 2273.7 |
| 17.5° | 2303.0 | 2305.3 | 2309.8 | 2317.7 | 2325.6 | 2346.0  | 2327.9 | 2322.2 | 2322.2 | 2310.9 |
| 20°   | 2344.8 | 2348.2 | 2355.0 | 2368.6 | 2378.7 | 2398.0  | 2379.9 | 2372.0 | 2368.6 | 2353.9 |
| 22.5° | 2388.9 | 2394.6 | 2404.7 | 2422.8 | 2440.9 | 2459.0  | 2440.9 | 2427.3 | 2417.2 | 2398.0 |
| 25°   | 2439.8 | 2446.6 | 2462.4 | 2491.8 | 2516.6 | 2542.6  | 2521.1 | 2494.0 | 2473.7 | 2446.6 |
| 27.5° | 2512.1 | 2520.0 | 2539.2 | 2575.4 | 2607.0 | 2629.6  | 2609.3 | 2574.2 | 2546.0 | 2513.2 |
| 30°   | 2613.8 | 2621.7 | 2644.3 | 2682.7 | 2704.2 | 2718.9  | 2705.3 | 2678.2 | 2644.3 | 2607.0 |
| 32.5° | 2744.9 | 2755.1 | 2779.9 | 2816.1 | 2820.6 | 2822.9  | 2818.3 | 2804.8 | 2779.9 | 2734.7 |
| 35°   | 2911.0 | 2922.3 | 2950.6 | 2979.9 | 2975.4 | 2979.9  | 2973.2 | 2968.6 | 2950.6 | 2898.6 |
| 37.5° | 3114.4 | 3128.0 | 3157.4 | 3180.0 | 3168.7 | 3163.0  | 3164.1 | 3165.3 | 3155.1 | 3097.5 |
| 40°   | 3350.6 | 3368.7 | 3390.1 | 3413.9 | 3394.7 | 3377.7  | 3389.0 | 3398.1 | 3389.0 | 3330.2 |
| 42.5° | 3593.5 | 3619.5 | 3642.1 | 3676.0 | 3660.2 | 3638.8  | 3654.6 | 3664.7 | 3645.5 | 3582.2 |
| 45°   | 3863.6 | 3888.5 | 3917.9 | 3968.7 | 3957.4 | 3934.8  | 3957.4 | 3959.7 | 3926.9 | 3852.3 |
| 47.5° | 4142.8 | 4168.7 | 4212.8 | 4280.6 | 4276.1 | 4251.2  | 4280.6 | 4264.8 | 4223.0 | 4133.7 |
| 50°   | 4407.2 | 4443.3 | 4511.1 | 4606.1 | 4615.1 | 4584.6  | 4624.2 | 4593.6 | 4523.6 | 4411.7 |
| 52.5° | 4655.8 | 4694.2 | 4801.6 | 4930.4 | 4963.2 | 4923.6  | 4976.7 | 4923.6 | 4818.5 | 4675.0 |
| 55°   | 4916.8 | 4959.8 | 5087.5 | 5255.8 | 5321.4 | 5292.0  | 5341.7 | 5261.5 | 5112.3 | 4938.3 |
| 57.5° | 5224.2 | 5250.2 | 5402.8 | 5602.8 | 5713.5 | 5720.3  | 5742.9 | 5607.3 | 5426.5 | 5228.7 |
| 60°   | 5557.6 | 5593.7 | 5759.8 | 5999.4 | 6174.6 | 6231.1  | 6207.3 | 6006.2 | 5796.0 | 5568.9 |
| 62.5° | 5984.7 | 6024.3 | 6223.2 | 6510.2 | 6787.1 | 6927.2  | 6834.5 | 6543.0 | 6283.1 | 6010.7 |
| 65°   | 6338.4 | 6382.5 | 6741.9 | 7253.8 | 7757.8 | 8039.2  | 7806.4 | 7269.6 | 6801.8 | 6417.5 |
| 67.5° | 6081.9 | 6136.2 | 6700.0 | 7640.2 | 8893.5 | 9733.1  | 8936.4 | 7755.5 | 6839.0 | 6318.1 |
| 70°   | 5315.7 | 5366.6 | 6024.3 | 7173.5 | 9213.3 | 11053.0 | 9405.4 | 7384.9 | 6045.8 | 5462.6 |
| 72.5° | 3529.1 | 3693.0 | 4358.6 | 5737.2 | 8226.7 | 10228.1 | 8308.1 | 5620.9 | 4043.3 | 3521.2 |
| 75°   | 1170.7 | 1301.8 | 1756.1 | 2974.3 | 5510.1 | 7649.3  | 5245.7 | 2631.9 | 1391.1 | 1001.2 |
| 77.5° | 294.9  | 340.1  | 469.0  | 850.9  | 2197.9 | 4355.2  | 1978.7 | 695.0  | 378.6  | 264.4  |
| 80°   | 143.5  | 158.2  | 226.0  | 283.6  | 550.3  | 1384.3  | 516.4  | 266.7  | 178.5  | 137.9  |
| 82.5° | 79.1   | 80.2   | 127.7  | 160.5  | 204.5  | 358.2   | 212.4  | 155.9  | 102.8  | 83.6   |
| 85°   | 48.6   | 47.5   | 67.8   | 85.9   | 85.9   | 127.7   | 101.7  | 85.9   | 58.8   | 52.0   |
| 87.5° | 19.2   | 19.2   | 24.9   | 27.1   | 23.7   | 32.8    | 26.0   | 28.3   | 22.6   | 21.5   |
| 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°    |
|--------|
| 2156.1 |
| 2167.4 |
| 2184.4 |
| 2204.7 |
| 2223.9 |
| 2243.1 |
| 2273.7 |
| 2310.9 |
| 2353.9 |
| 2396.8 |
| 2445.4 |
| 2512.1 |
| 2607.0 |
| 2735.8 |
| 2898.6 |
| 3097.5 |
| 3330.2 |
| 3586.8 |
| 3860.2 |
| 4128.1 |
| 4409.4 |
| 4661.4 |
| 4914.6 |
| 5201.6 |
| 5532.7 |
| 5963.3 |
| 6354.3 |
| 6240.1 |
| 5384.7 |
| 3407.1 |
| 947.0  |
| 236.2  |
| 126.6  |
| 83.6   |
| 54.2   |
| 22.6   |
| 0.0    |

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