

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: P948715

Luminaire Tested: **GALN-SB3C-940-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948715  
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-940-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

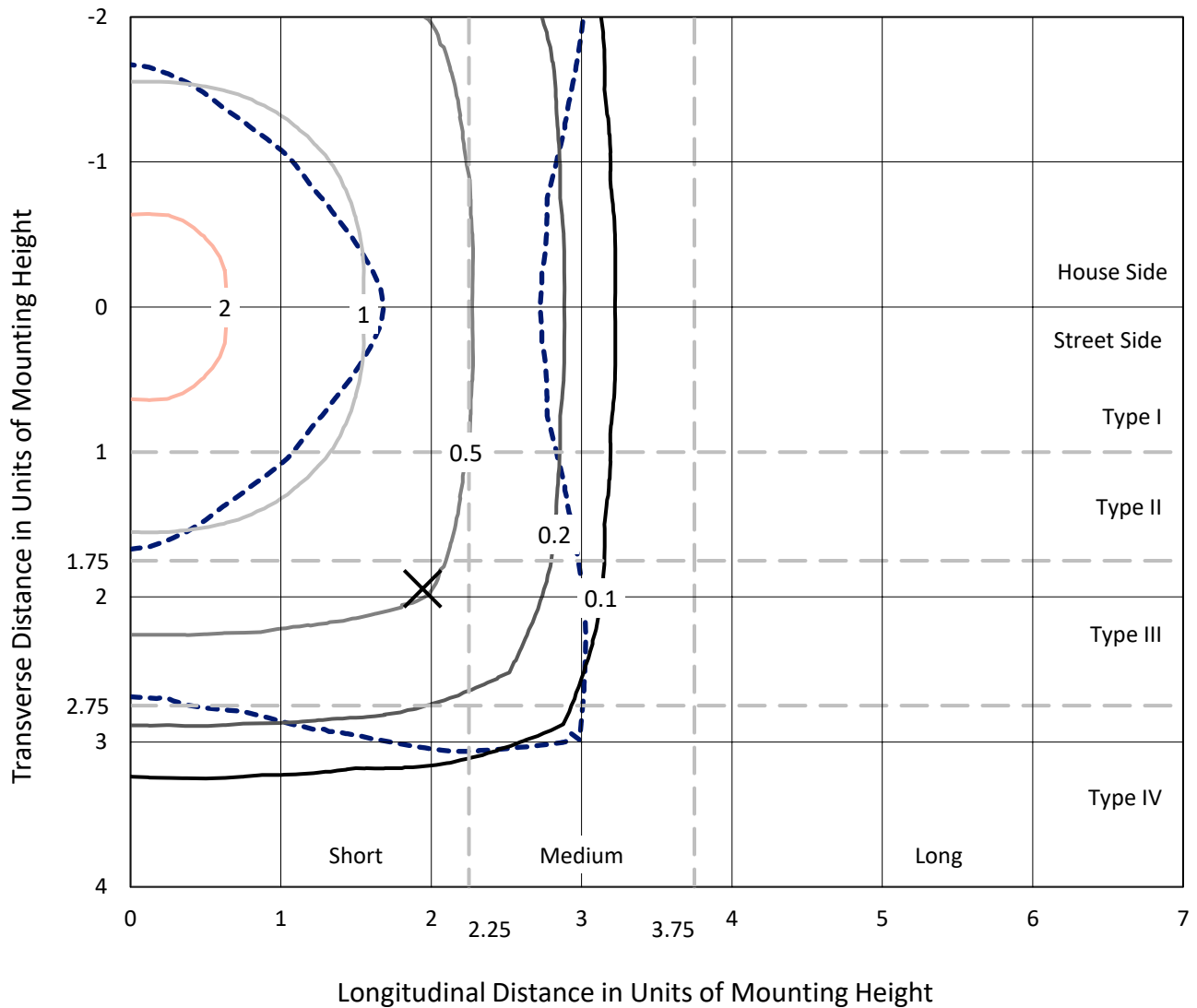
Lumens per Lamp: N/A  
Luminaire Lumens: 17052 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

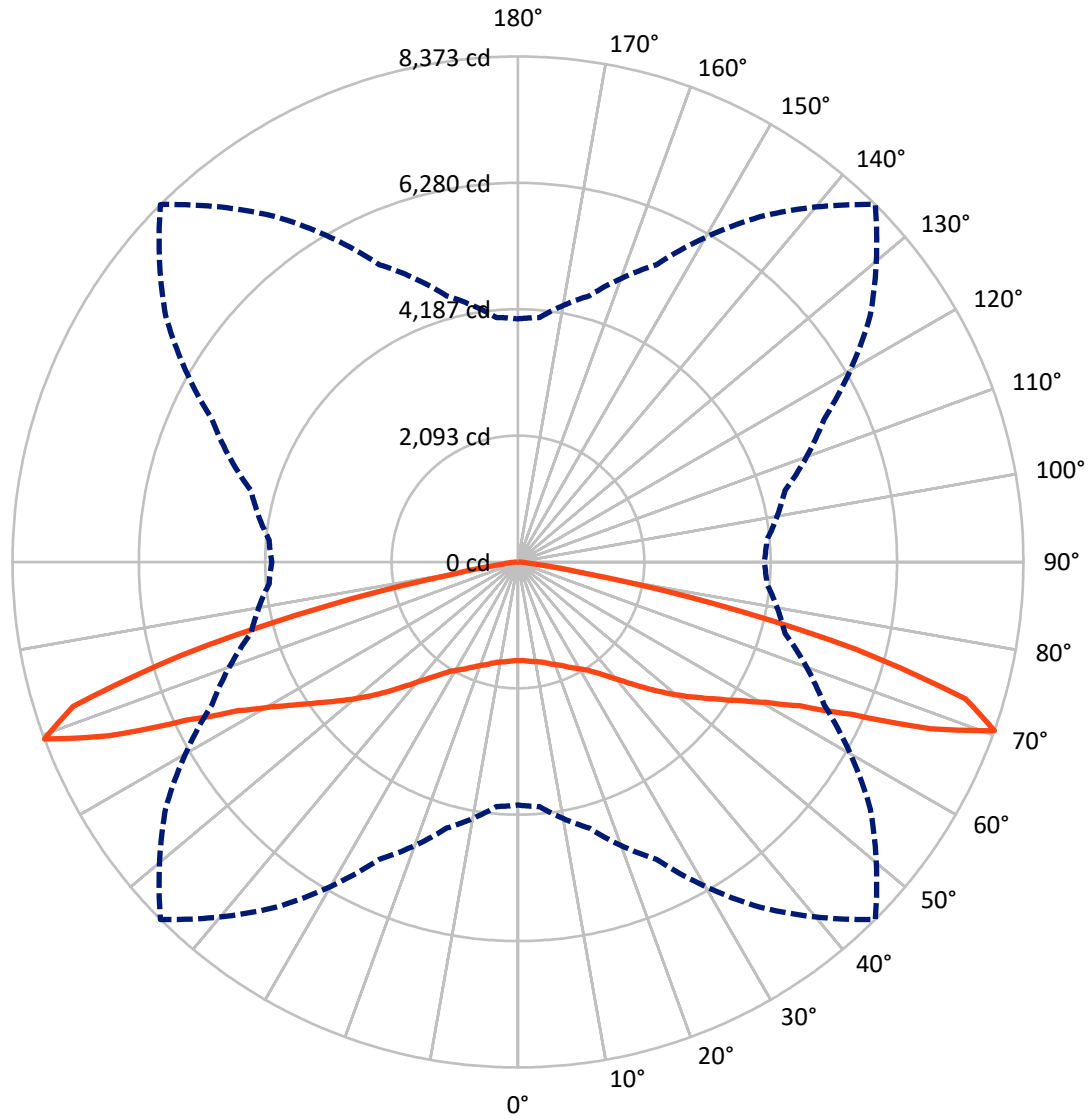
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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    | 8526.0   | 0.0    | 8526.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8526.0   | 0.0    | 8526.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17052.0  | 0.0    | 17052.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 158.7   | 0.9       |
| 10°-20°   | 492.1   | 2.9       |
| 20°-30°   | 879.4   | 5.2       |
| 30°-40°   | 1425.5  | 8.4       |
| 40°-50°   | 2321.8  | 13.6      |
| 50°-60°   | 3540.0  | 20.8      |
| 60°-70°   | 5266.4  | 30.9      |
| 70°-80°   | 2870.4  | 16.8      |
| 80°-90°   | 97.7    | 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°    | 17052.0 | 100.0     |
| 0°-180°   | 17052.0 | 100.0     |



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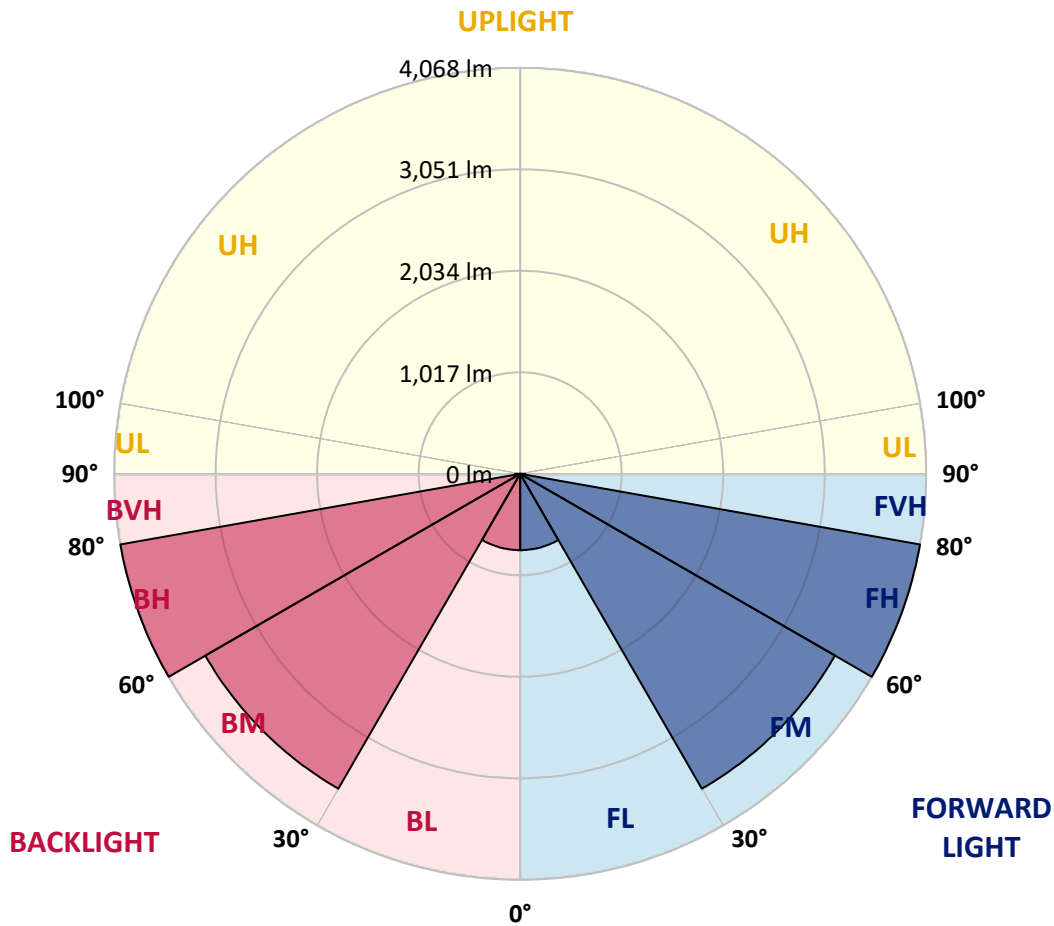
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 765.1  | 4.5       |                         |      |         |
| FM (30°-60°)   | 3643.7 | 21.4      |                         |      |         |
| FH (60°-80°)   | 4068.4 | 23.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 48.9   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 765.1  | 4.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 3643.7 | 21.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 4068.4 | 23.9      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 48.9   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1633.4 | 1633.4 | 1633.4 | 1633.4 | 1633.4 | 1633.4 | 1633.4 | 1633.4 | 1633.4 | 1633.4 |
| 2.5°  | 1641.1 | 1642.8 | 1639.4 | 1637.7 | 1636.0 | 1633.4 | 1634.3 | 1638.5 | 1642.0 | 1641.1 |
| 5°    | 1654.8 | 1656.5 | 1654.0 | 1653.1 | 1649.7 | 1648.8 | 1648.8 | 1653.1 | 1655.7 | 1654.0 |
| 7.5°  | 1670.2 | 1672.8 | 1668.5 | 1667.6 | 1665.9 | 1664.2 | 1663.4 | 1667.6 | 1670.2 | 1670.2 |
| 10°   | 1684.8 | 1687.3 | 1683.9 | 1681.3 | 1679.6 | 1679.6 | 1677.9 | 1681.3 | 1685.6 | 1684.8 |
| 12.5° | 1700.2 | 1701.9 | 1698.5 | 1696.8 | 1696.8 | 1699.3 | 1696.8 | 1698.5 | 1701.9 | 1700.2 |
| 15°   | 1719.0 | 1719.9 | 1719.0 | 1721.6 | 1725.9 | 1734.4 | 1726.7 | 1725.0 | 1726.7 | 1722.4 |
| 17.5° | 1744.7 | 1746.4 | 1749.8 | 1755.8 | 1761.8 | 1777.2 | 1763.5 | 1759.2 | 1759.2 | 1750.7 |
| 20°   | 1776.4 | 1778.9 | 1784.1 | 1794.3 | 1802.1 | 1816.6 | 1802.9 | 1796.9 | 1794.3 | 1783.2 |
| 22.5° | 1809.8 | 1814.0 | 1821.7 | 1835.4 | 1849.1 | 1862.8 | 1849.1 | 1838.9 | 1831.2 | 1816.6 |
| 25°   | 1848.3 | 1853.4 | 1865.4 | 1887.7 | 1906.5 | 1926.2 | 1909.9 | 1889.4 | 1874.0 | 1853.4 |
| 27.5° | 1903.1 | 1909.1 | 1923.6 | 1951.0 | 1975.0 | 1992.1 | 1976.7 | 1950.2 | 1928.8 | 1903.9 |
| 30°   | 1980.1 | 1986.1 | 2003.2 | 2032.3 | 2048.6 | 2059.7 | 2049.5 | 2028.9 | 2003.2 | 1975.0 |
| 32.5° | 2079.4 | 2087.1 | 2106.0 | 2133.4 | 2136.8 | 2138.5 | 2135.1 | 2124.8 | 2106.0 | 2071.7 |
| 35°   | 2205.3 | 2213.8 | 2235.2 | 2257.5 | 2254.1 | 2257.5 | 2252.4 | 2248.9 | 2235.2 | 2195.9 |
| 37.5° | 2359.4 | 2369.6 | 2391.9 | 2409.0 | 2400.5 | 2396.2 | 2397.0 | 2397.9 | 2390.2 | 2346.5 |
| 40°   | 2538.3 | 2552.0 | 2568.2 | 2586.2 | 2571.7 | 2558.8 | 2567.4 | 2574.2 | 2567.4 | 2522.9 |
| 42.5° | 2722.3 | 2742.0 | 2759.2 | 2784.8 | 2772.9 | 2756.6 | 2768.6 | 2776.3 | 2761.7 | 2713.8 |
| 45°   | 2926.9 | 2945.8 | 2968.0 | 3006.6 | 2998.0 | 2980.9 | 2998.0 | 2999.7 | 2974.9 | 2918.4 |
| 47.5° | 3138.4 | 3158.1 | 3191.5 | 3242.8 | 3239.4 | 3220.6 | 3242.8 | 3230.9 | 3199.2 | 3131.5 |
| 50°   | 3338.7 | 3366.1 | 3417.5 | 3489.4 | 3496.2 | 3473.1 | 3503.1 | 3480.0 | 3426.9 | 3342.1 |
| 52.5° | 3527.1 | 3556.2 | 3637.5 | 3735.1 | 3759.9 | 3730.0 | 3770.2 | 3730.0 | 3650.3 | 3541.6 |
| 55°   | 3724.8 | 3757.3 | 3854.1 | 3981.6 | 4031.3 | 4009.0 | 4046.7 | 3985.9 | 3872.9 | 3741.1 |
| 57.5° | 3957.7 | 3977.4 | 4092.9 | 4244.5 | 4328.4 | 4333.5 | 4350.6 | 4247.9 | 4110.9 | 3961.1 |
| 60°   | 4210.2 | 4237.6 | 4363.5 | 4544.9 | 4677.6 | 4720.4 | 4702.5 | 4550.1 | 4390.8 | 4218.8 |
| 62.5° | 4533.8 | 4563.8 | 4714.4 | 4931.9 | 5141.6 | 5247.8 | 5177.6 | 4956.7 | 4759.8 | 4553.5 |
| 65°   | 4801.8 | 4835.2 | 5107.4 | 5495.2 | 5877.0 | 6090.2 | 5913.8 | 5507.2 | 5152.8 | 4861.7 |
| 67.5° | 4607.4 | 4648.5 | 5075.7 | 5788.0 | 6737.4 | 7373.4 | 6769.9 | 5875.3 | 5181.0 | 4786.4 |
| 70°   | 4027.0 | 4065.5 | 4563.8 | 5434.4 | 6979.6 | 8373.3 | 7125.2 | 5594.5 | 4580.0 | 4138.3 |
| 72.5° | 2673.5 | 2797.7 | 3301.9 | 4346.3 | 6232.3 | 7748.4 | 6293.9 | 4258.2 | 3063.1 | 2667.6 |
| 75°   | 886.9  | 986.2  | 1330.4 | 2253.2 | 4174.3 | 5794.8 | 3973.9 | 1993.8 | 1053.8 | 758.5  |
| 77.5° | 223.4  | 257.7  | 355.3  | 644.6  | 1665.1 | 3299.3 | 1499.0 | 526.5  | 286.8  | 200.3  |
| 80°   | 108.7  | 119.9  | 171.2  | 214.9  | 416.9  | 1048.7 | 391.2  | 202.0  | 135.3  | 104.4  |
| 82.5° | 59.9   | 60.8   | 96.7   | 121.6  | 155.0  | 271.4  | 160.9  | 118.1  | 77.9   | 63.4   |
| 85°   | 36.8   | 36.0   | 51.4   | 65.1   | 65.1   | 96.7   | 77.0   | 65.1   | 44.5   | 39.4   |
| 87.5° | 14.6   | 14.6   | 18.8   | 20.5   | 18.0   | 24.8   | 19.7   | 21.4   | 17.1   | 16.3   |
| 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°    |
|--------|
| 1633.4 |
| 1642.0 |
| 1654.8 |
| 1670.2 |
| 1684.8 |
| 1699.3 |
| 1722.4 |
| 1750.7 |
| 1783.2 |
| 1815.8 |
| 1852.6 |
| 1903.1 |
| 1975.0 |
| 2072.6 |
| 2195.9 |
| 2346.5 |
| 2522.9 |
| 2717.2 |
| 2924.4 |
| 3127.3 |
| 3340.4 |
| 3531.3 |
| 3723.1 |
| 3940.5 |
| 4191.4 |
| 4517.5 |
| 4813.8 |
| 4727.3 |
| 4079.2 |
| 2581.1 |
| 717.4  |
| 178.9  |
| 95.9   |
| 63.4   |
| 41.1   |
| 17.1   |
| 0.0    |

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