

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: P947035

Luminaire Tested: **GALN-SB2C-735-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947035  
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-SB2C-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

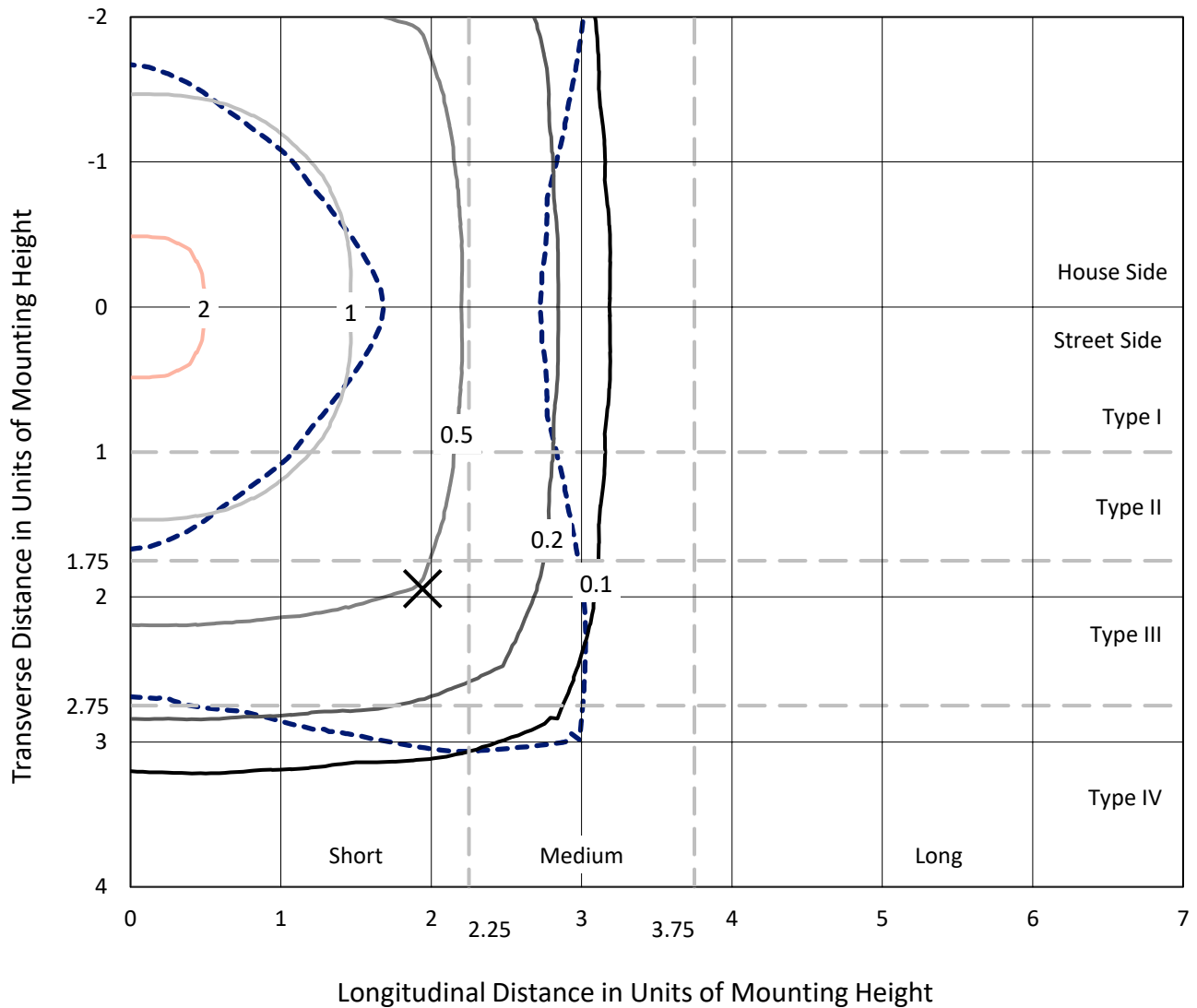
Lumens per Lamp: N/A  
Luminaire Lumens: 15685 lumens  
Efficiency: N/A  
Efficacy: 155.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

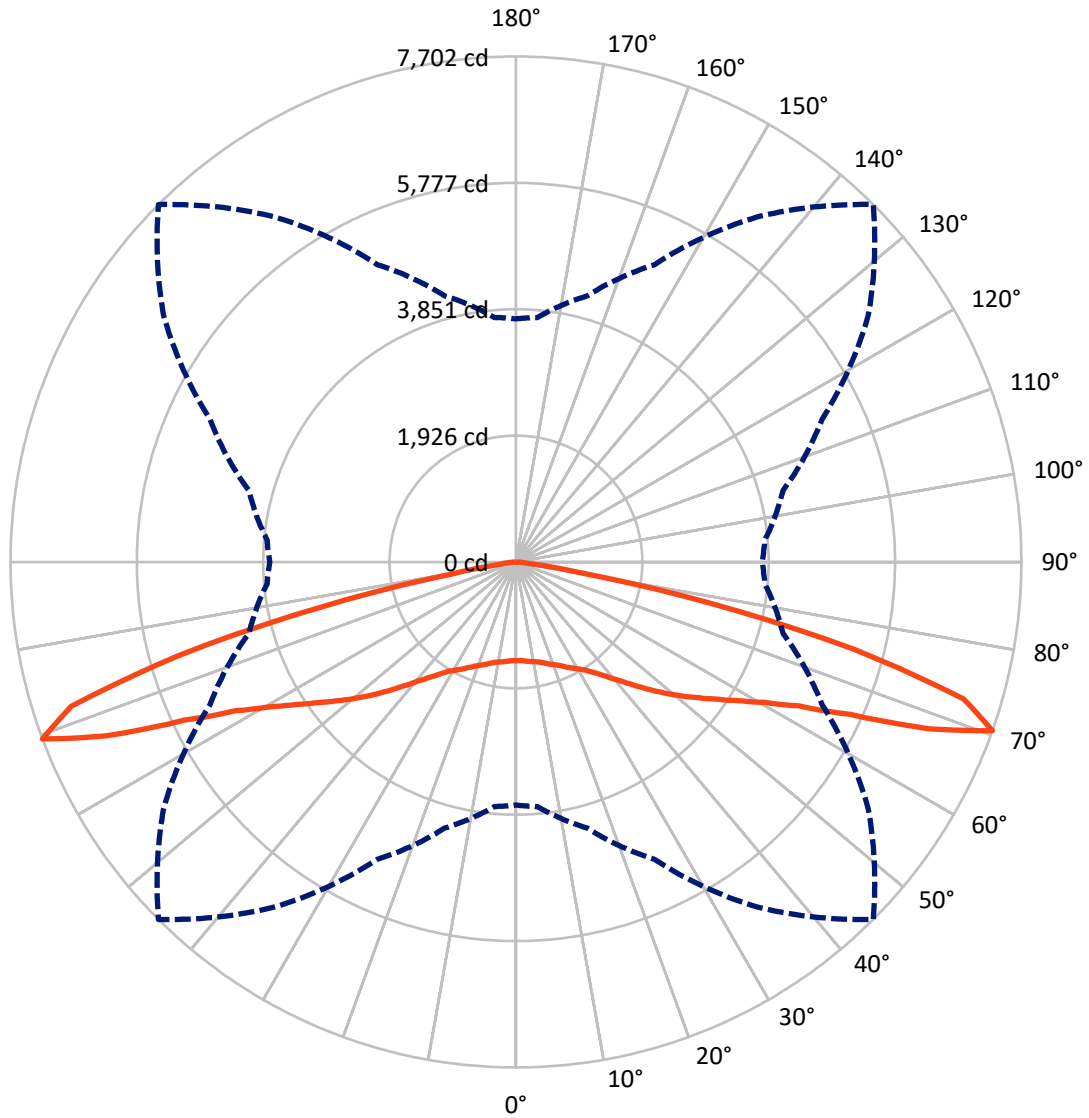
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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    | 7842.5   | 0.0    | 7842.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7842.5   | 0.0    | 7842.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15685.0  | 0.0    | 15685.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 146.0   | 0.9       |
| 10°-20°   | 452.6   | 2.9       |
| 20°-30°   | 808.9   | 5.2       |
| 30°-40°   | 1311.2  | 8.4       |
| 40°-50°   | 2135.7  | 13.6      |
| 50°-60°   | 3256.2  | 20.8      |
| 60°-70°   | 4844.2  | 30.9      |
| 70°-80°   | 2640.3  | 16.8      |
| 80°-90°   | 89.9    | 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°    | 15685.0 | 100.0     |
| 0°-180°   | 15685.0 | 100.0     |

**Coefficient of Utilization**



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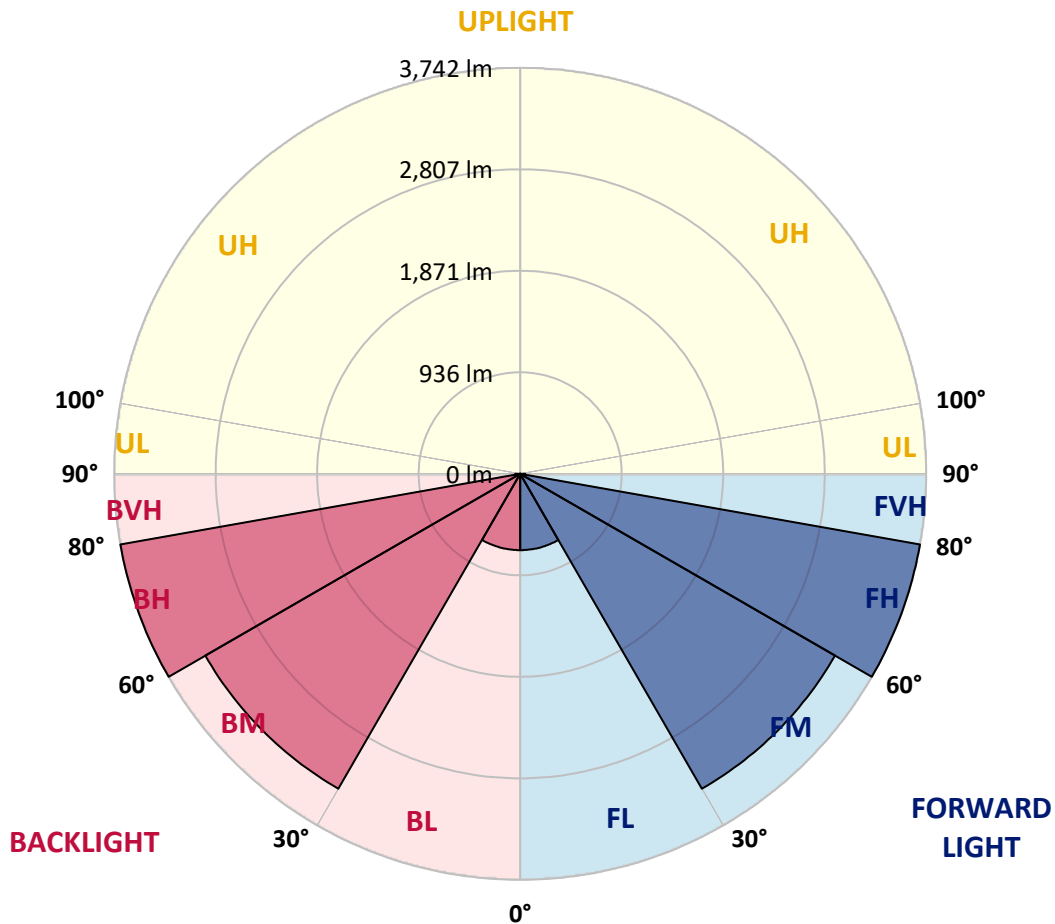
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 703.7  | 4.5       |                         |      |         |
| FM (30°-60°)   | 3351.6 | 21.4      |                         |      |         |
| FH (60°-80°)   | 3742.3 | 23.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 45.0   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 703.7  | 4.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 3351.6 | 21.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 3742.3 | 23.9      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 45.0   | 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°    | 1502.5 | 1502.5 | 1502.5 | 1502.5 | 1502.5 | 1502.5 | 1502.5 | 1502.5 | 1502.5 | 1502.5 |
| 2.5°  | 1509.5 | 1511.1 | 1508.0 | 1506.4 | 1504.8 | 1502.5 | 1503.2 | 1507.2 | 1510.3 | 1509.5 |
| 5°    | 1522.1 | 1523.7 | 1521.4 | 1520.6 | 1517.4 | 1516.6 | 1516.6 | 1520.6 | 1522.9 | 1521.4 |
| 7.5°  | 1536.3 | 1538.7 | 1534.7 | 1534.0 | 1532.4 | 1530.8 | 1530.0 | 1534.0 | 1536.3 | 1536.3 |
| 10°   | 1549.7 | 1552.1 | 1548.9 | 1546.6 | 1545.0 | 1545.0 | 1543.4 | 1546.6 | 1550.5 | 1549.7 |
| 12.5° | 1563.9 | 1565.5 | 1562.3 | 1560.7 | 1560.7 | 1563.1 | 1560.7 | 1562.3 | 1565.5 | 1563.9 |
| 15°   | 1581.2 | 1582.0 | 1581.2 | 1583.6 | 1587.5 | 1595.4 | 1588.3 | 1586.7 | 1588.3 | 1584.4 |
| 17.5° | 1604.8 | 1606.4 | 1609.6 | 1615.1 | 1620.6 | 1634.8 | 1622.2 | 1618.2 | 1618.2 | 1610.3 |
| 20°   | 1634.0 | 1636.3 | 1641.1 | 1650.5 | 1657.6 | 1671.0 | 1658.4 | 1652.9 | 1650.5 | 1640.3 |
| 22.5° | 1664.7 | 1668.6 | 1675.7 | 1688.3 | 1700.9 | 1713.5 | 1700.9 | 1691.4 | 1684.4 | 1671.0 |
| 25°   | 1700.1 | 1704.8 | 1715.9 | 1736.3 | 1753.7 | 1771.8 | 1756.8 | 1737.9 | 1723.7 | 1704.8 |
| 27.5° | 1750.5 | 1756.0 | 1769.4 | 1794.6 | 1816.7 | 1832.4 | 1818.2 | 1793.8 | 1774.1 | 1751.3 |
| 30°   | 1821.4 | 1826.9 | 1842.6 | 1869.4 | 1884.4 | 1894.6 | 1885.2 | 1866.3 | 1842.6 | 1816.7 |
| 32.5° | 1912.7 | 1919.8 | 1937.1 | 1962.3 | 1965.5 | 1967.1 | 1963.9 | 1954.5 | 1937.1 | 1905.6 |
| 35°   | 2028.5 | 2036.4 | 2056.0 | 2076.5 | 2073.4 | 2076.5 | 2071.8 | 2068.6 | 2056.0 | 2019.8 |
| 37.5° | 2170.2 | 2179.7 | 2200.1 | 2215.9 | 2208.0 | 2204.1 | 2204.9 | 2205.7 | 2198.6 | 2158.4 |
| 40°   | 2334.8 | 2347.4 | 2362.4 | 2378.9 | 2365.5 | 2353.7 | 2361.6 | 2367.9 | 2361.6 | 2320.6 |
| 42.5° | 2504.1 | 2522.2 | 2538.0 | 2561.6 | 2550.6 | 2535.6 | 2546.6 | 2553.7 | 2540.3 | 2496.2 |
| 45°   | 2692.3 | 2709.6 | 2730.1 | 2765.5 | 2757.7 | 2741.9 | 2757.7 | 2759.2 | 2736.4 | 2684.4 |
| 47.5° | 2886.8 | 2904.9 | 2935.6 | 2982.9 | 2979.7 | 2962.4 | 2982.9 | 2971.8 | 2942.7 | 2880.5 |
| 50°   | 3071.1 | 3096.3 | 3143.5 | 3209.7 | 3216.0 | 3194.7 | 3222.3 | 3201.0 | 3152.2 | 3074.2 |
| 52.5° | 3244.3 | 3271.1 | 3345.9 | 3435.7 | 3458.5 | 3430.9 | 3467.9 | 3430.9 | 3357.7 | 3257.7 |
| 55°   | 3426.2 | 3456.1 | 3545.1 | 3662.4 | 3708.1 | 3687.6 | 3722.3 | 3666.4 | 3562.4 | 3441.2 |
| 57.5° | 3640.4 | 3658.5 | 3764.8 | 3904.2 | 3981.4 | 3986.1 | 4001.8 | 3907.3 | 3781.4 | 3643.5 |
| 60°   | 3872.7 | 3897.9 | 4013.6 | 4180.6 | 4302.6 | 4342.0 | 4325.5 | 4185.3 | 4038.8 | 3880.6 |
| 62.5° | 4170.4 | 4197.9 | 4336.5 | 4536.5 | 4729.4 | 4827.1 | 4762.5 | 4559.4 | 4378.2 | 4188.5 |
| 65°   | 4416.8 | 4447.5 | 4697.9 | 5054.7 | 5405.9 | 5601.9 | 5439.7 | 5065.7 | 4739.7 | 4471.9 |
| 67.5° | 4238.1 | 4275.9 | 4668.8 | 5324.0 | 6197.3 | 6782.3 | 6227.2 | 5404.3 | 4765.7 | 4402.7 |
| 70°   | 3704.2 | 3739.6 | 4197.9 | 4998.8 | 6420.1 | 7702.1 | 6554.0 | 5146.0 | 4212.9 | 3806.5 |
| 72.5° | 2459.2 | 2573.4 | 3037.2 | 3997.9 | 5732.7 | 7127.2 | 5789.4 | 3916.8 | 2817.5 | 2453.7 |
| 75°   | 815.8  | 907.1  | 1223.7 | 2072.6 | 3839.6 | 5330.3 | 3655.4 | 1834.0 | 969.4  | 697.7  |
| 77.5° | 205.5  | 237.0  | 326.8  | 593.0  | 1531.6 | 3034.8 | 1378.8 | 484.3  | 263.8  | 184.3  |
| 80°   | 100.0  | 110.2  | 157.5  | 197.7  | 383.5  | 964.6  | 359.9  | 185.8  | 124.4  | 96.1   |
| 82.5° | 55.1   | 55.9   | 89.0   | 111.8  | 142.5  | 249.6  | 148.0  | 108.7  | 71.7   | 58.3   |
| 85°   | 33.9   | 33.1   | 47.2   | 59.8   | 59.8   | 89.0   | 70.9   | 59.8   | 40.9   | 36.2   |
| 87.5° | 13.4   | 13.4   | 17.3   | 18.9   | 16.5   | 22.8   | 18.1   | 19.7   | 15.7   | 15.0   |
| 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°    |
|--------|
| 1502.5 |
| 1510.3 |
| 1522.1 |
| 1536.3 |
| 1549.7 |
| 1563.1 |
| 1584.4 |
| 1610.3 |
| 1640.3 |
| 1670.2 |
| 1704.0 |
| 1750.5 |
| 1816.7 |
| 1906.4 |
| 2019.8 |
| 2158.4 |
| 2320.6 |
| 2499.4 |
| 2689.9 |
| 2876.6 |
| 3072.6 |
| 3248.2 |
| 3424.6 |
| 3624.6 |
| 3855.4 |
| 4155.4 |
| 4427.8 |
| 4348.3 |
| 3752.2 |
| 2374.2 |
| 659.9  |
| 164.6  |
| 88.2   |
| 58.3   |
| 37.8   |
| 15.7   |
| 0.0    |

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