

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: STREETWORKS

Report Number: P847911

Luminaire Tested: **GLAN-SB4B-727-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20301 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

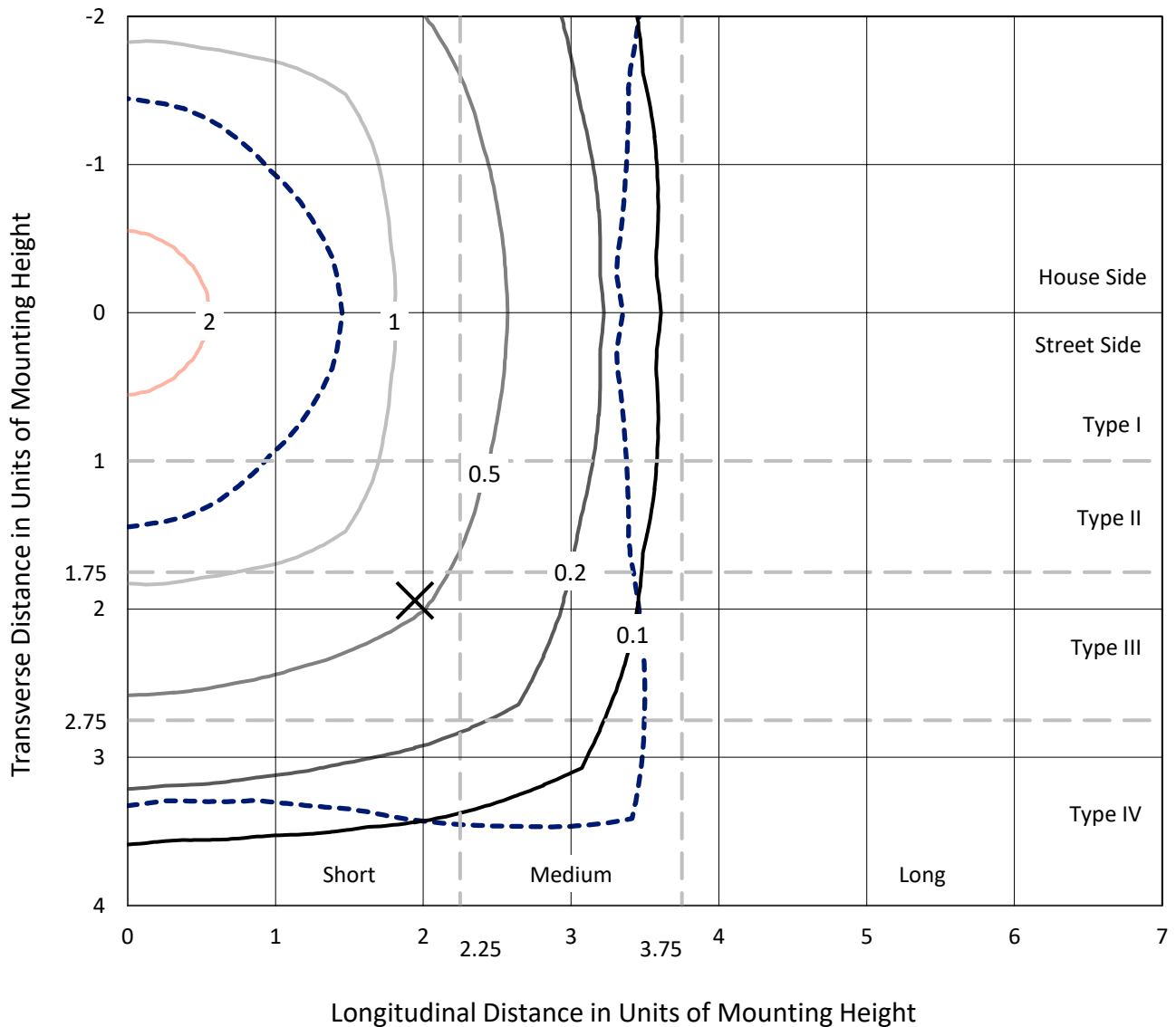
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

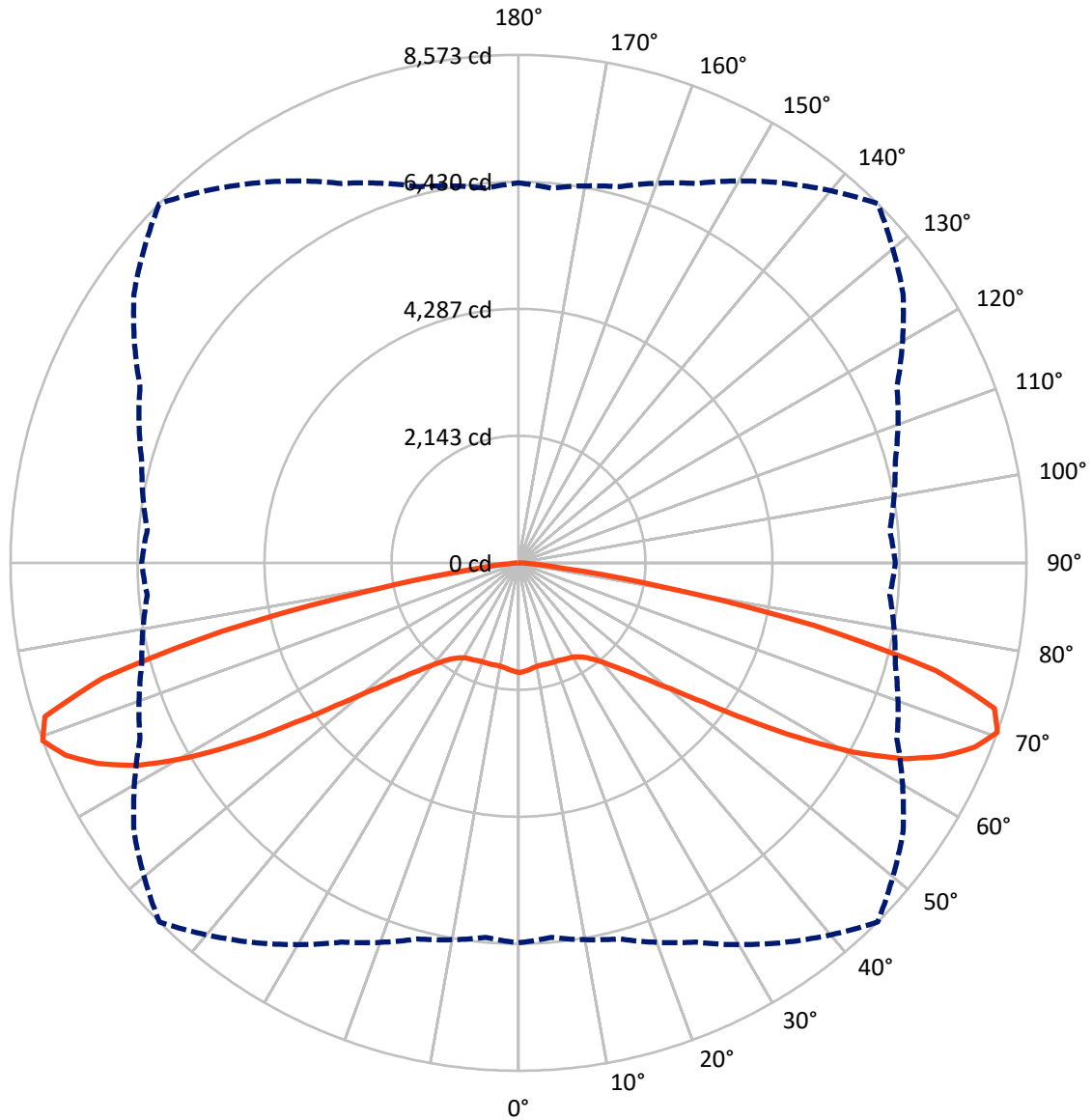
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10150.5 | 0.0 | 10150.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10150.5 | 0.0 | 10150.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20301.0 | 0.0 | 20301.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 172.3 | 0.8 |
| 10°-20° | 505.8 | 2.5 |
| 20°-30° | 841.8 | 4.1 |
| 30°-40° | 1273.0 | 6.3 |
| 40°-50° | 2115.4 | 10.4 |
| 50°-60° | 3991.7 | 19.7 |
| 60°-70° | 6740.1 | 33.2 |
| 70°-80° | 4429.0 | 21.8 |
| 80°-90° | 232.0 | 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° | 20301.0 | 100.0 |
| 0°-180° | 20301.0 | 100.0 |

Coefficient of Utilization



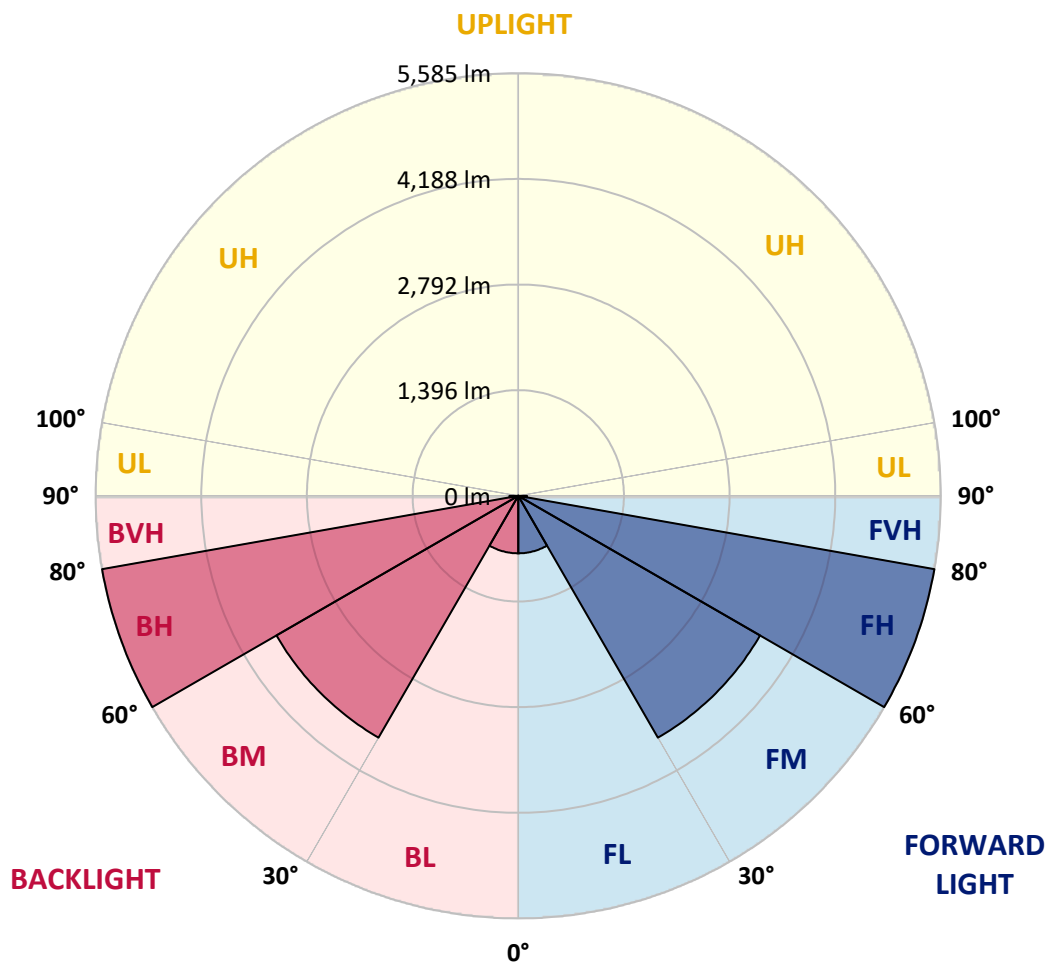
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 759.9 | 3.7 | | | |
| FM (30°-60°) | 3690.0 | 18.2 | | | |
| FH (60°-80°) | 5584.5 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 116.0 | 0.6 | | | G2/225 |
| BL (0°-30°) | 759.9 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 3690.0 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 5584.5 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 116.0 | 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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1851.9 | 1851.9 | 1851.9 | 1851.9 | 1851.9 | 1851.9 | 1851.9 | 1851.9 | 1851.9 | 1851.9 |
| 2.5° | 1840.3 | 1845.5 | 1843.4 | 1839.2 | 1839.2 | 1836.0 | 1839.2 | 1841.3 | 1844.5 | 1846.6 |
| 5° | 1816.0 | 1820.2 | 1819.1 | 1816.0 | 1817.0 | 1813.9 | 1816.0 | 1819.1 | 1821.3 | 1822.3 |
| 7.5° | 1794.9 | 1799.1 | 1797.0 | 1791.7 | 1791.7 | 1788.5 | 1789.6 | 1792.8 | 1795.9 | 1797.0 |
| 10° | 1789.6 | 1793.8 | 1787.5 | 1779.1 | 1775.9 | 1771.7 | 1772.7 | 1775.9 | 1782.2 | 1785.4 |
| 12.5° | 1791.7 | 1794.9 | 1788.5 | 1775.9 | 1772.7 | 1768.5 | 1768.5 | 1771.7 | 1780.1 | 1784.3 |
| 15° | 1798.0 | 1801.2 | 1791.7 | 1778.0 | 1774.8 | 1771.7 | 1770.6 | 1774.8 | 1784.3 | 1791.7 |
| 17.5° | 1809.7 | 1812.8 | 1798.0 | 1779.1 | 1774.8 | 1775.9 | 1774.8 | 1778.0 | 1792.8 | 1806.5 |
| 20° | 1820.2 | 1822.3 | 1802.3 | 1779.1 | 1774.8 | 1775.9 | 1774.8 | 1781.2 | 1800.2 | 1819.1 |
| 22.5° | 1823.4 | 1825.5 | 1806.5 | 1786.4 | 1783.3 | 1784.3 | 1783.3 | 1789.6 | 1807.5 | 1826.5 |
| 25° | 1824.4 | 1827.6 | 1812.8 | 1797.0 | 1802.3 | 1804.4 | 1802.3 | 1803.3 | 1817.0 | 1833.9 |
| 27.5° | 1840.3 | 1844.5 | 1830.8 | 1817.0 | 1820.2 | 1819.1 | 1822.3 | 1825.5 | 1836.0 | 1852.9 |
| 30° | 1873.0 | 1876.1 | 1864.5 | 1850.8 | 1848.7 | 1841.3 | 1850.8 | 1861.4 | 1873.0 | 1887.7 |
| 32.5° | 1926.8 | 1933.1 | 1918.3 | 1903.6 | 1894.1 | 1889.8 | 1897.2 | 1915.2 | 1931.0 | 1946.8 |
| 35° | 2016.5 | 2020.7 | 2007.0 | 1979.5 | 1962.7 | 1962.7 | 1969.0 | 1992.2 | 2017.5 | 2037.6 |
| 37.5° | 2143.1 | 2148.4 | 2124.1 | 2091.4 | 2066.1 | 2066.1 | 2074.5 | 2098.8 | 2136.8 | 2165.3 |
| 40° | 2297.2 | 2304.5 | 2273.9 | 2240.2 | 2215.9 | 2211.7 | 2222.2 | 2249.7 | 2285.5 | 2321.4 |
| 42.5° | 2482.9 | 2491.3 | 2451.2 | 2421.7 | 2402.7 | 2402.7 | 2407.9 | 2433.3 | 2466.0 | 2510.3 |
| 45° | 2720.3 | 2735.1 | 2680.2 | 2650.6 | 2632.7 | 2636.9 | 2640.1 | 2662.2 | 2691.8 | 2742.4 |
| 47.5° | 3003.1 | 3017.8 | 2959.8 | 2929.2 | 2926.0 | 2946.1 | 2933.4 | 2949.3 | 2965.1 | 3023.1 |
| 50° | 3323.9 | 3349.2 | 3309.1 | 3307.0 | 3313.3 | 3350.2 | 3320.7 | 3329.1 | 3311.2 | 3348.1 |
| 52.5° | 3716.4 | 3753.3 | 3745.9 | 3758.6 | 3829.3 | 3905.3 | 3837.7 | 3808.2 | 3740.7 | 3752.3 |
| 55° | 4192.3 | 4248.2 | 4258.8 | 4334.7 | 4495.1 | 4650.2 | 4506.7 | 4387.5 | 4244.0 | 4217.6 |
| 57.5° | 4733.6 | 4777.9 | 4828.6 | 4983.7 | 5283.3 | 5558.7 | 5283.3 | 5019.5 | 4793.7 | 4739.9 |
| 60° | 5316.1 | 5370.9 | 5419.5 | 5648.4 | 6093.7 | 6481.0 | 6085.3 | 5666.4 | 5367.8 | 5294.9 |
| 62.5° | 5941.8 | 6012.5 | 6046.2 | 6300.5 | 6819.7 | 7281.9 | 6827.1 | 6319.5 | 5988.2 | 5910.1 |
| 65° | 6542.2 | 6600.2 | 6638.2 | 6909.4 | 7405.3 | 7868.6 | 7439.1 | 6938.9 | 6598.1 | 6495.8 |
| 67.5° | 6821.8 | 6853.5 | 6946.3 | 7253.4 | 7776.8 | 8305.4 | 7865.4 | 7286.1 | 6905.2 | 6725.8 |
| 70° | 6412.4 | 6348.0 | 6571.7 | 7063.4 | 7821.1 | 8573.4 | 7922.4 | 7048.7 | 6582.3 | 6291.0 |
| 72.5° | 4955.2 | 4844.4 | 5232.7 | 6073.7 | 7314.6 | 8402.5 | 7365.2 | 6121.2 | 5474.3 | 4883.4 |
| 75° | 2696.0 | 2570.4 | 3106.5 | 4170.1 | 5833.1 | 7282.9 | 5967.1 | 4289.4 | 3458.9 | 2676.0 |
| 77.5° | 760.8 | 713.3 | 1145.9 | 2017.5 | 3508.5 | 5113.5 | 3643.6 | 2061.8 | 1359.1 | 806.2 |
| 80° | 233.2 | 225.8 | 306.0 | 607.8 | 1489.9 | 2449.1 | 1431.9 | 615.2 | 389.4 | 245.9 |
| 82.5° | 138.2 | 126.6 | 151.9 | 221.6 | 379.9 | 769.2 | 369.3 | 231.1 | 185.7 | 124.5 |
| 85° | 79.1 | 73.9 | 89.7 | 107.6 | 127.7 | 163.6 | 106.6 | 109.7 | 99.2 | 66.5 |
| 87.5° | 32.7 | 29.5 | 34.8 | 33.8 | 29.5 | 38.0 | 28.5 | 33.8 | 40.1 | 26.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 1851.9 |
| 1845.5 |
| 1822.3 |
| 1797.0 |
| 1785.4 |
| 1785.4 |
| 1792.8 |
| 1806.5 |
| 1820.2 |
| 1826.5 |
| 1832.9 |
| 1848.7 |
| 1884.6 |
| 1940.5 |
| 2030.2 |
| 2154.7 |
| 2309.8 |
| 2507.1 |
| 2740.3 |
| 3006.2 |
| 3326.0 |
| 3713.2 |
| 4176.4 |
| 4701.9 |
| 5231.6 |
| 5846.8 |
| 6445.1 |
| 6727.9 |
| 6360.7 |
| 5030.1 |
| 2850.1 |
| 895.9 |
| 259.6 |
| 135.1 |
| 69.6 |
| 24.3 |
| 0.0 |

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