

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: P956090

Luminaire Tested: **GALN-SB8D-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-835-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78593 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

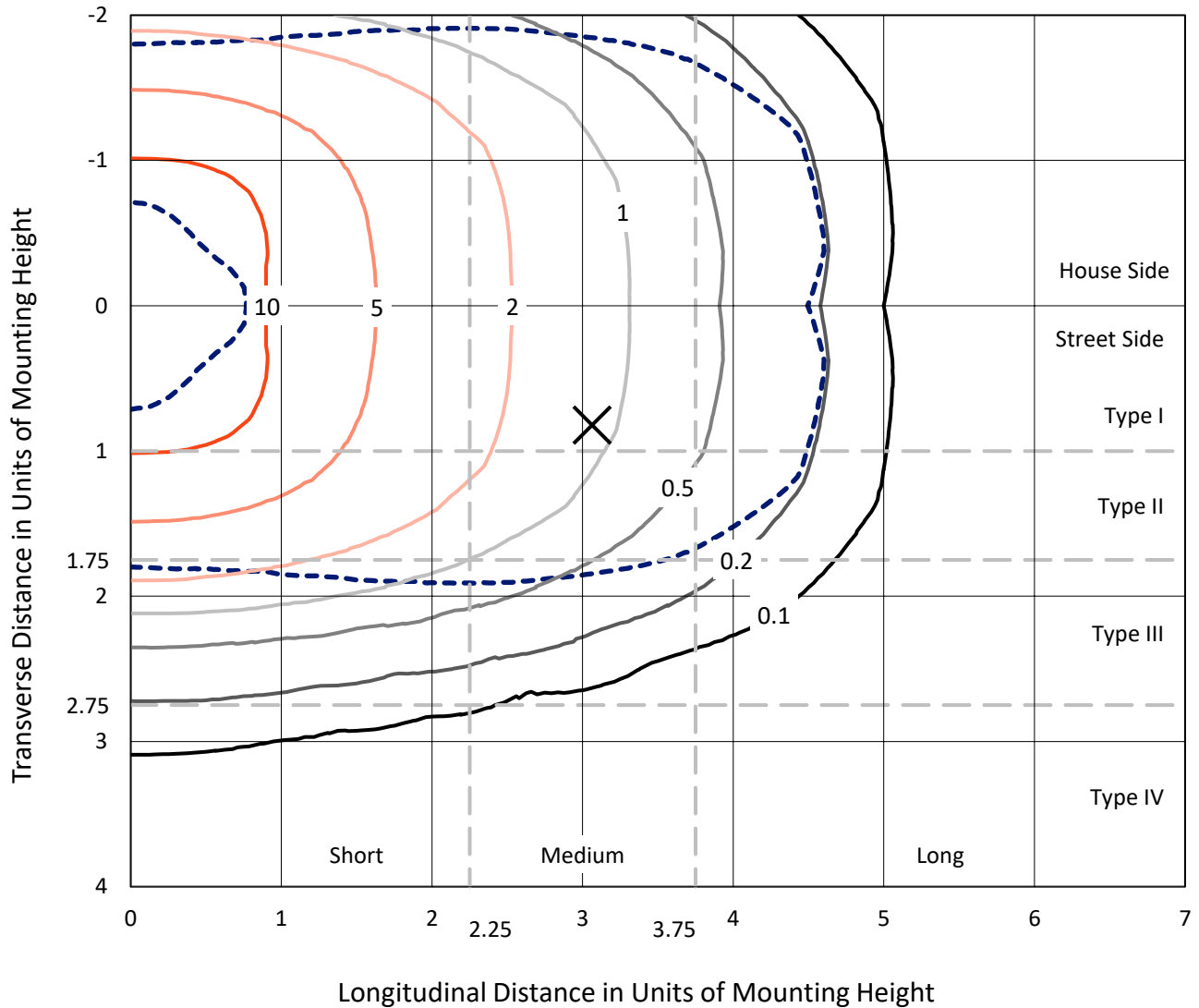
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

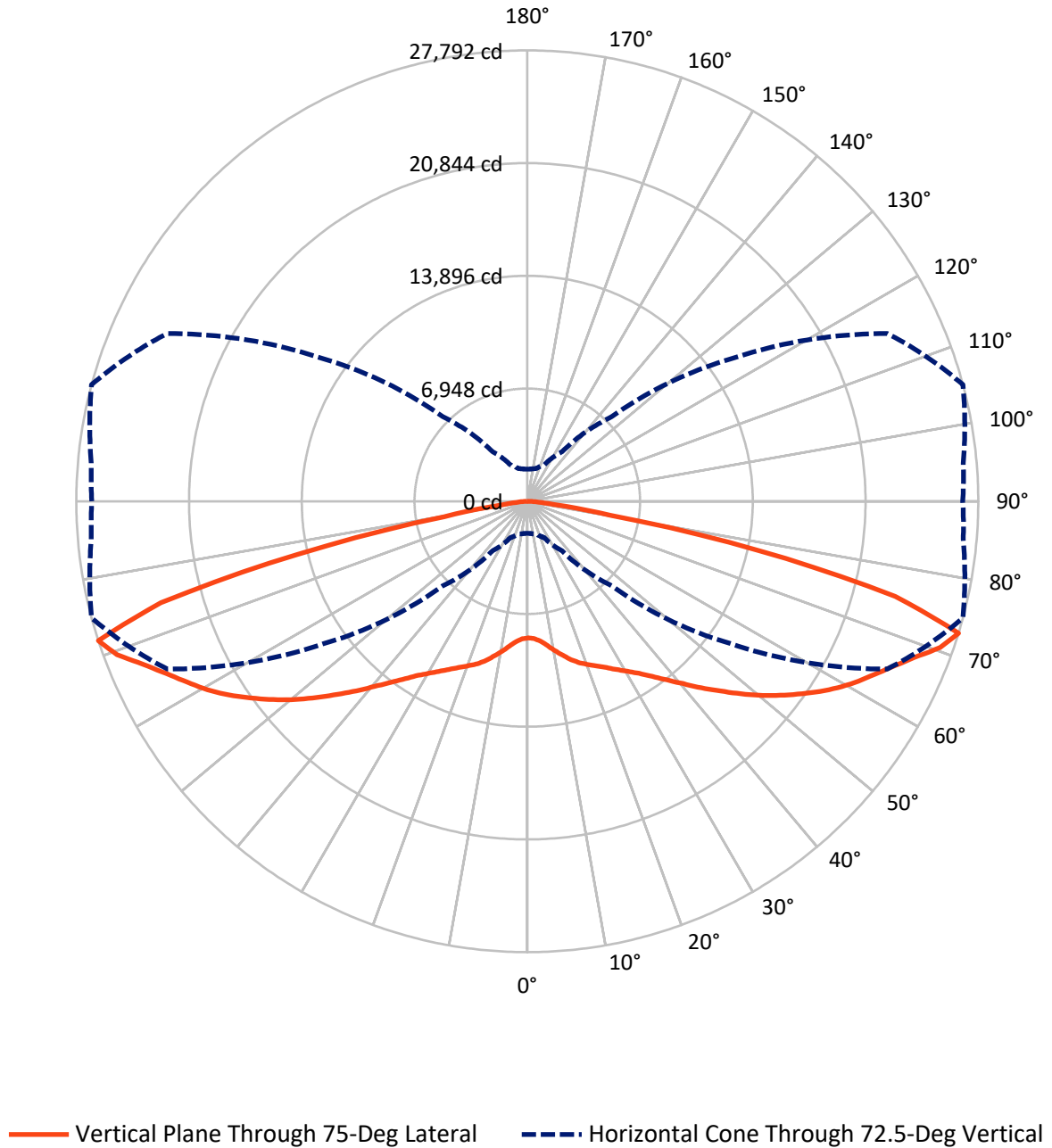
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 39296.5 | 0.0 | 39296.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 39296.5 | 0.0 | 39296.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 78593.0 | 0.0 | 78593.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 824.7 | 1.0 |
| 10°-20° | 2720.0 | 3.5 |
| 20°-30° | 5255.8 | 6.7 |
| 30°-40° | 8874.7 | 11.3 |
| 40°-50° | 14074.3 | 17.9 |
| 50°-60° | 18843.9 | 24.0 |
| 60°-70° | 17933.3 | 22.8 |
| 70°-80° | 9357.9 | 11.9 |
| 80°-90° | 708.4 | 0.9 |
| 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° | 78593.0 | 100.0 |
| 0°-180° | 78593.0 | 100.0 |

Coefficient of Utilization



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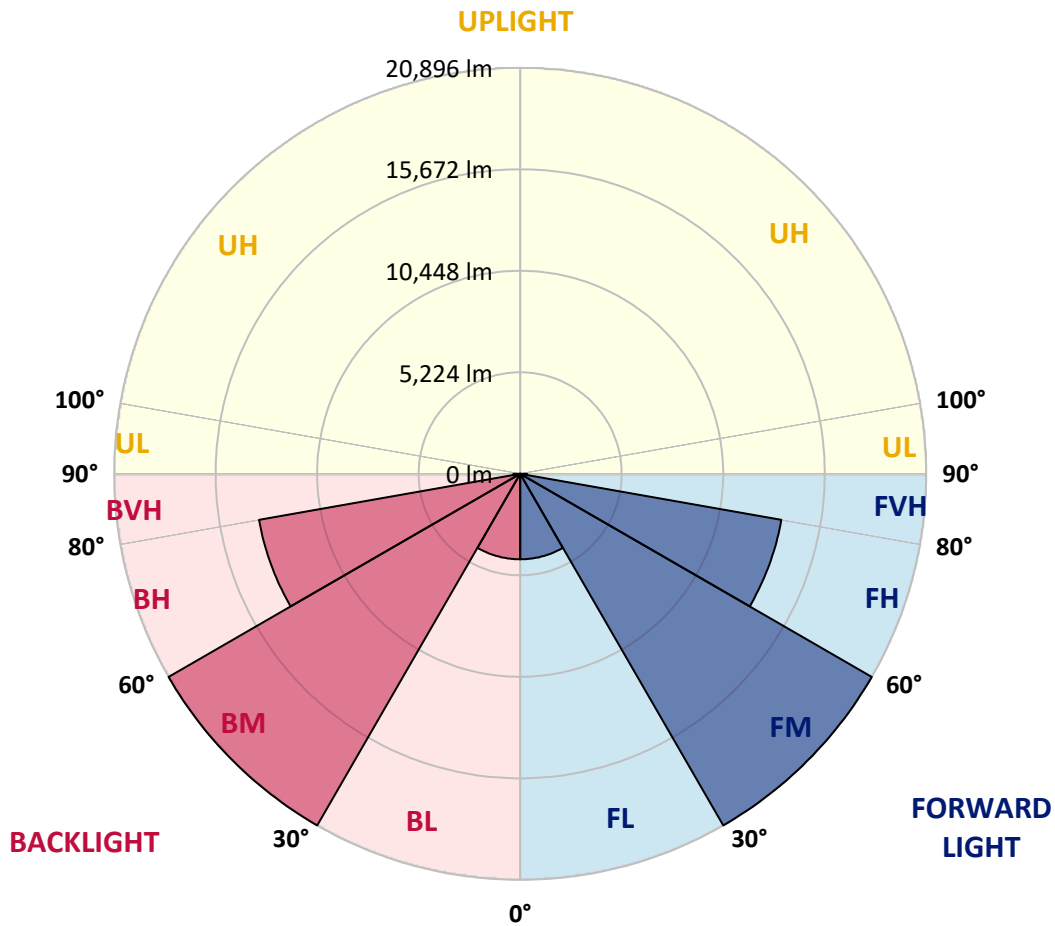
CATALOG NUMBER: GALN-SB8D-835-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4400.2 | 5.6 | | | |
| FM (30°-60°) | 20896.5 | 26.6 | | | |
| FH (60°-80°) | 13645.6 | 17.4 | | | G5 |
| FVH (80°-90°) | 354.2 | 0.5 | | | G3/500 |
| BL (0°-30°) | 4400.2 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 20896.5 | 26.6 | B5 | | |
| BH (60°-80°) | 13645.6 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 354.2 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8418.7 | 8418.7 | 8418.7 | 8418.7 | 8418.7 | 8418.7 | 8418.7 | 8418.7 | 8418.7 | 8418.7 |
| 2.5° | 8418.7 | 8410.7 | 8418.7 | 8426.7 | 8422.7 | 8422.7 | 8442.8 | 8454.8 | 8478.9 | 8474.9 |
| 5° | 8362.5 | 8358.5 | 8390.6 | 8426.7 | 8454.8 | 8503.0 | 8563.2 | 8607.3 | 8663.5 | 8675.5 |
| 7.5° | 8334.4 | 8322.4 | 8378.6 | 8442.8 | 8531.1 | 8651.5 | 8767.8 | 8888.2 | 8984.5 | 9016.6 |
| 10° | 8354.5 | 8358.5 | 8434.8 | 8555.2 | 8695.6 | 8864.1 | 9028.7 | 9233.3 | 9369.7 | 9401.8 |
| 12.5° | 8446.8 | 8438.8 | 8567.2 | 8759.8 | 8952.4 | 9165.1 | 9357.7 | 9582.4 | 9730.9 | 9807.1 |
| 15° | 8615.3 | 8599.3 | 8779.9 | 9064.8 | 9345.7 | 9594.4 | 9750.9 | 9963.6 | 10136.2 | 10232.5 |
| 17.5° | 8816.0 | 8824.0 | 9060.8 | 9429.9 | 9799.1 | 10080.0 | 10228.5 | 10336.8 | 10469.2 | 10553.5 |
| 20° | 9169.1 | 9185.1 | 9450.0 | 9887.4 | 10308.7 | 10629.7 | 10750.1 | 10710.0 | 10746.1 | 10810.3 |
| 22.5° | 9642.6 | 9650.6 | 9947.6 | 10421.1 | 10862.5 | 11215.6 | 11295.8 | 11131.3 | 11031.0 | 11075.1 |
| 25° | 10192.3 | 10244.5 | 10541.5 | 11027.0 | 11480.4 | 11817.5 | 11853.6 | 11604.8 | 11356.0 | 11368.1 |
| 27.5° | 10862.5 | 10910.6 | 11211.6 | 11693.1 | 12154.6 | 12447.5 | 12443.5 | 12110.4 | 11745.3 | 11653.0 |
| 30° | 11588.8 | 11640.9 | 11949.9 | 12447.5 | 12876.9 | 13133.7 | 13077.5 | 12680.2 | 12158.6 | 11986.0 |
| 32.5° | 12451.5 | 12483.6 | 12796.6 | 13294.2 | 13691.5 | 13896.1 | 13779.7 | 13290.2 | 12640.1 | 12443.5 |
| 35° | 13494.8 | 13543.0 | 13775.7 | 14245.2 | 14594.3 | 14762.9 | 14566.2 | 13988.4 | 13258.1 | 13037.4 |
| 37.5° | 14686.6 | 14654.5 | 14919.3 | 15336.7 | 15625.6 | 15729.9 | 15461.1 | 14774.9 | 13964.3 | 13703.5 |
| 40° | 15930.6 | 15914.5 | 16203.4 | 16604.7 | 16761.2 | 16825.4 | 16428.1 | 15677.8 | 14778.9 | 14498.0 |
| 42.5° | 17058.1 | 17046.1 | 17435.3 | 17880.7 | 18069.3 | 17997.1 | 17495.5 | 16636.8 | 15721.9 | 15400.9 |
| 45° | 17961.0 | 17944.9 | 18422.5 | 19048.5 | 19417.6 | 19297.2 | 18623.1 | 17696.2 | 16676.9 | 16343.9 |
| 47.5° | 18655.2 | 18663.2 | 19176.9 | 19951.3 | 20597.4 | 20641.5 | 19774.8 | 18775.6 | 17728.3 | 17351.1 |
| 50° | 19156.8 | 19180.9 | 19730.6 | 20589.3 | 21472.1 | 21861.4 | 20950.5 | 19883.1 | 18815.7 | 18390.4 |
| 52.5° | 19281.2 | 19325.3 | 19987.4 | 20994.6 | 22033.9 | 22776.3 | 22146.3 | 20946.5 | 19847.0 | 19441.7 |
| 55° | 18619.1 | 18707.4 | 19546.0 | 20962.5 | 22379.0 | 23378.2 | 23197.6 | 22025.9 | 20886.3 | 20469.0 |
| 57.5° | 17098.3 | 17222.7 | 18201.8 | 20051.6 | 22302.8 | 23791.5 | 24012.2 | 23061.2 | 21925.6 | 21524.3 |
| 60° | 14967.5 | 15116.0 | 16055.0 | 18073.4 | 21227.4 | 23944.0 | 24586.0 | 24068.4 | 22880.6 | 22491.4 |
| 62.5° | 11753.3 | 11945.9 | 13069.5 | 15437.0 | 18956.2 | 23233.7 | 25075.6 | 24979.3 | 23739.3 | 23253.8 |
| 65° | 7539.9 | 7744.6 | 8928.3 | 11725.2 | 15926.5 | 21058.8 | 25228.1 | 25866.1 | 24646.2 | 23968.1 |
| 67.5° | 4546.4 | 4638.7 | 5224.6 | 7106.6 | 11640.9 | 17780.4 | 23936.0 | 26849.2 | 25705.6 | 24862.9 |
| 70° | 2909.2 | 2961.4 | 3310.5 | 4173.2 | 6580.9 | 12973.2 | 20733.8 | 27033.8 | 26989.7 | 25781.8 |
| 72.5° | 1974.3 | 1990.3 | 2082.6 | 2471.8 | 3723.8 | 7371.4 | 15292.5 | 24473.7 | 27792.2 | 26965.6 |
| 75° | 1444.6 | 1532.9 | 1681.3 | 1749.6 | 2114.7 | 3683.7 | 8763.8 | 17194.6 | 23422.3 | 23783.5 |
| 77.5° | 1075.4 | 1079.4 | 1284.1 | 1364.3 | 1508.8 | 1962.2 | 3707.8 | 9598.5 | 14542.2 | 15268.5 |
| 80° | 910.9 | 862.7 | 858.7 | 1099.5 | 1135.6 | 1223.9 | 1657.3 | 3314.5 | 5208.5 | 3158.0 |
| 82.5° | 758.4 | 706.2 | 638.0 | 858.7 | 774.5 | 750.4 | 718.3 | 1348.3 | 1657.3 | 814.6 |
| 85° | 529.7 | 505.6 | 481.5 | 561.8 | 441.4 | 377.2 | 345.1 | 630.0 | 698.2 | 345.1 |
| 87.5° | 228.7 | 236.8 | 240.8 | 248.8 | 184.6 | 132.4 | 132.4 | 176.6 | 176.6 | 136.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 8418.7 |
| 8470.9 |
| 8675.5 |
| 9024.6 |
| 9433.9 |
| 9839.2 |
| 10268.6 |
| 10593.6 |
| 10858.5 |
| 11107.2 |
| 11388.1 |
| 11681.1 |
| 12006.1 |
| 12491.6 |
| 13069.5 |
| 13751.6 |
| 14590.3 |
| 15481.1 |
| 16420.1 |
| 17463.4 |
| 18518.8 |
| 19546.0 |
| 20585.3 |
| 21616.6 |
| 22575.6 |
| 23310.0 |
| 24052.3 |
| 24927.1 |
| 25773.8 |
| 26837.2 |
| 22908.7 |
| 13619.2 |
| 2387.6 |
| 694.2 |
| 305.0 |
| 100.3 |
| 0.0 |

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