

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: P950273

Luminaire Tested: **GALN-SB4D-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950273
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-SB4D-740-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44431 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

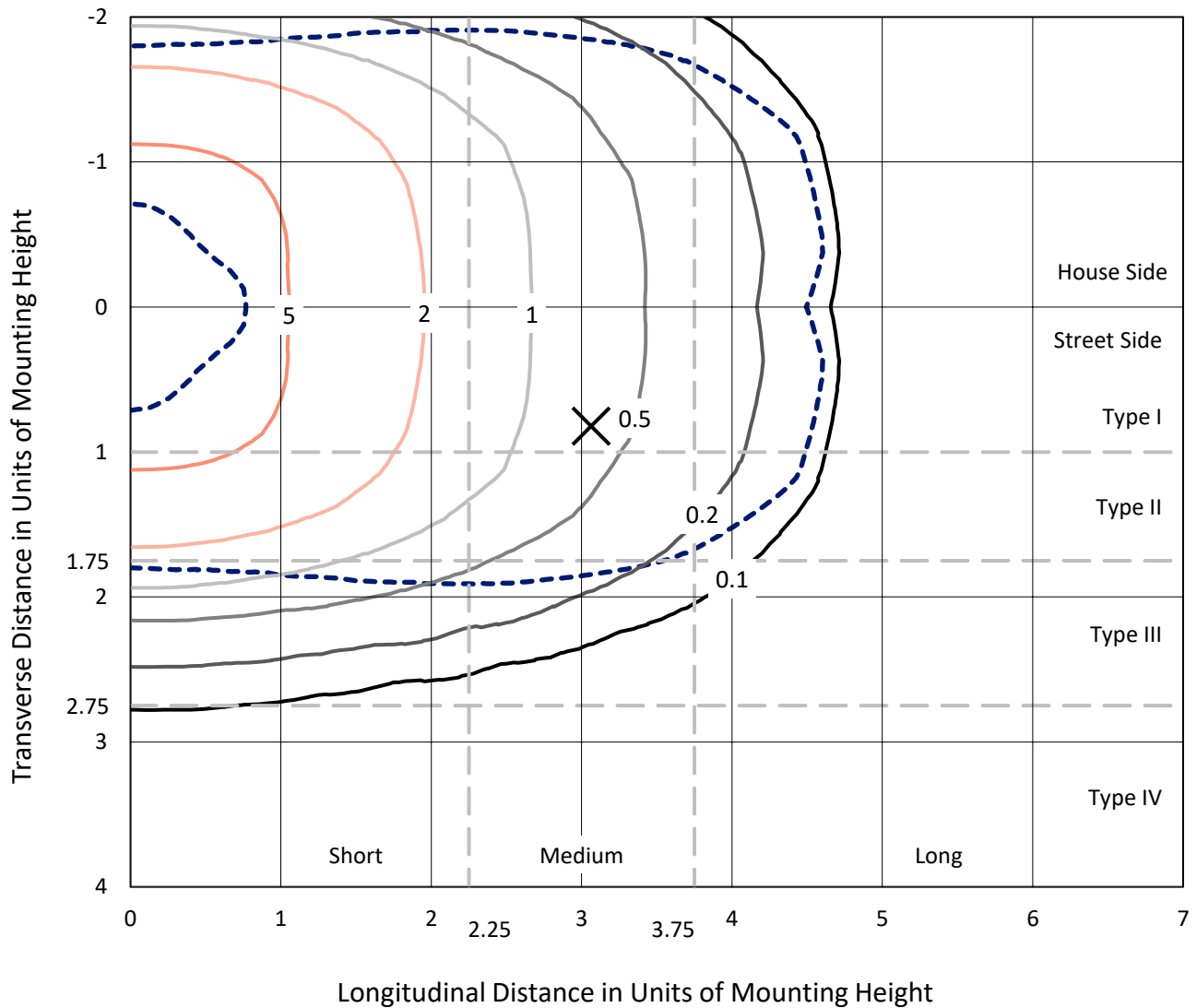
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

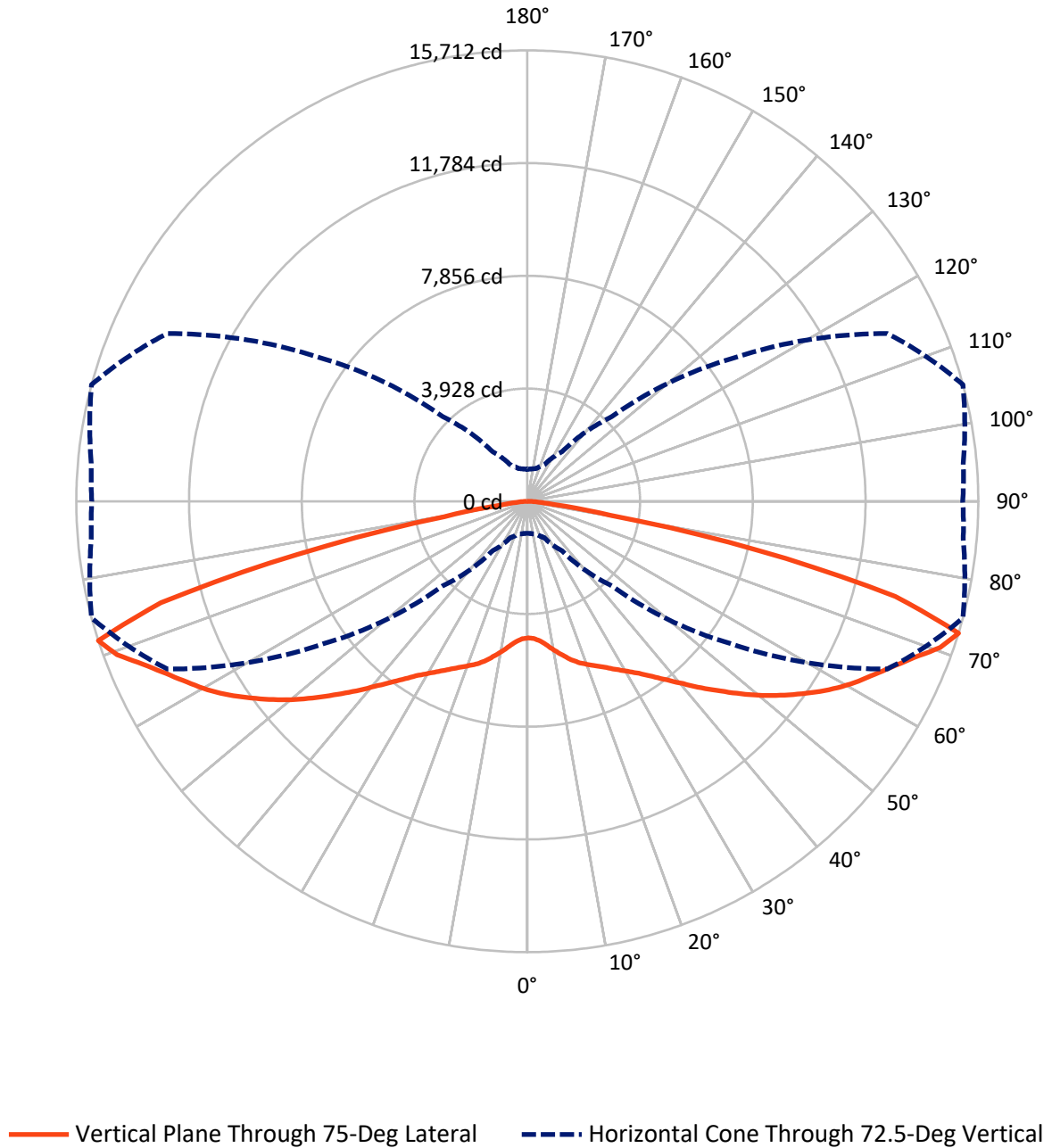
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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 | 22215.5 | 0.0 | 22215.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22215.5 | 0.0 | 22215.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44431.0 | 0.0 | 44431.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 466.2 | 1.0 |
| 10°-20° | 1537.7 | 3.5 |
| 20°-30° | 2971.3 | 6.7 |
| 30°-40° | 5017.2 | 11.3 |
| 40°-50° | 7956.6 | 17.9 |
| 50°-60° | 10653.0 | 24.0 |
| 60°-70° | 10138.3 | 22.8 |
| 70°-80° | 5290.3 | 11.9 |
| 80°-90° | 400.4 | 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° | 44431.0 | 100.0 |
| 0°-180° | 44431.0 | 100.0 |

Coefficient of Utilization

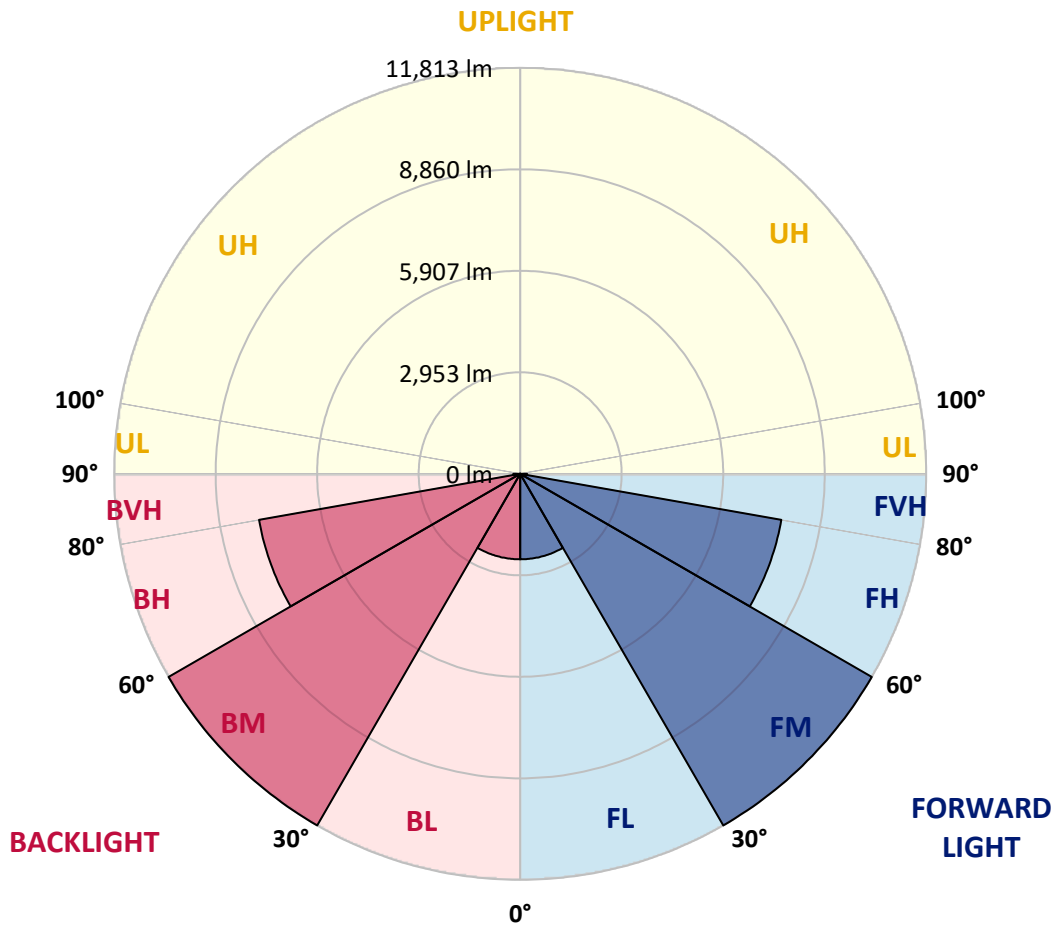


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2487.6 | 5.6 | | | |
| FM (30°-60°) | 11813.4 | 26.6 | | | |
| FH (60°-80°) | 7714.3 | 17.4 | | | G4/12000 |
| FVH (80°-90°) | 200.2 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2487.6 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 11813.4 | 26.6 | B5 | | |
| BH (60°-80°) | 7714.3 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 200.2 | 0.5 | | | G2/225 |
| 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° | 4759.4 | 4759.4 | 4759.4 | 4759.4 | 4759.4 | 4759.4 | 4759.4 | 4759.4 | 4759.4 | 4759.4 |
| 2.5° | 4759.4 | 4754.8 | 4759.4 | 4763.9 | 4761.6 | 4761.6 | 4773.0 | 4779.8 | 4793.4 | 4791.1 |
| 5° | 4727.6 | 4725.3 | 4743.5 | 4763.9 | 4779.8 | 4807.0 | 4841.0 | 4866.0 | 4897.7 | 4904.5 |
| 7.5° | 4711.7 | 4704.9 | 4736.7 | 4773.0 | 4822.9 | 4890.9 | 4956.7 | 5024.8 | 5079.2 | 5097.4 |
| 10° | 4723.1 | 4725.3 | 4768.4 | 4836.5 | 4915.9 | 5011.2 | 5104.2 | 5219.9 | 5297.0 | 5315.1 |
| 12.5° | 4775.2 | 4770.7 | 4843.3 | 4952.2 | 5061.1 | 5181.3 | 5290.2 | 5417.2 | 5501.2 | 5544.3 |
| 15° | 4870.5 | 4861.4 | 4963.5 | 5124.6 | 5283.4 | 5424.0 | 5512.5 | 5632.7 | 5730.3 | 5784.7 |
| 17.5° | 4983.9 | 4988.5 | 5122.3 | 5331.0 | 5539.7 | 5698.5 | 5782.5 | 5843.7 | 5918.6 | 5966.2 |
| 20° | 5183.6 | 5192.6 | 5342.4 | 5589.6 | 5827.8 | 6009.3 | 6077.4 | 6054.7 | 6075.1 | 6111.4 |
| 22.5° | 5451.3 | 5455.8 | 5623.7 | 5891.3 | 6140.9 | 6340.5 | 6385.9 | 6292.9 | 6236.2 | 6261.1 |
| 25° | 5762.0 | 5791.5 | 5959.4 | 6233.9 | 6490.2 | 6680.8 | 6701.2 | 6560.6 | 6419.9 | 6426.7 |
| 27.5° | 6140.9 | 6168.1 | 6338.2 | 6610.5 | 6871.3 | 7036.9 | 7034.7 | 6846.4 | 6640.0 | 6587.8 |
| 30° | 6551.5 | 6581.0 | 6755.7 | 7036.9 | 7279.7 | 7424.9 | 7393.1 | 7168.5 | 6873.6 | 6776.1 |
| 32.5° | 7039.2 | 7057.4 | 7234.3 | 7515.6 | 7740.2 | 7855.9 | 7790.1 | 7513.3 | 7145.8 | 7034.7 |
| 35° | 7629.0 | 7656.3 | 7787.8 | 8053.2 | 8250.6 | 8345.9 | 8234.7 | 7908.1 | 7495.2 | 7370.4 |
| 37.5° | 8302.8 | 8284.6 | 8434.4 | 8670.3 | 8833.6 | 8892.6 | 8740.6 | 8352.7 | 7894.5 | 7747.0 |
| 40° | 9006.0 | 8997.0 | 9160.3 | 9387.1 | 9475.6 | 9511.9 | 9287.3 | 8863.1 | 8355.0 | 8196.2 |
| 42.5° | 9643.5 | 9636.7 | 9856.7 | 10108.5 | 10215.1 | 10174.3 | 9890.7 | 9405.3 | 8888.1 | 8706.6 |
| 45° | 10153.9 | 10144.8 | 10414.8 | 10768.7 | 10977.4 | 10909.3 | 10528.2 | 10004.2 | 9428.0 | 9239.7 |
| 47.5° | 10546.4 | 10550.9 | 10841.3 | 11279.1 | 11644.3 | 11669.3 | 11179.3 | 10614.4 | 10022.3 | 9809.1 |
| 50° | 10829.9 | 10843.5 | 11154.3 | 11639.8 | 12138.9 | 12358.9 | 11843.9 | 11240.5 | 10637.1 | 10396.6 |
| 52.5° | 10900.2 | 10925.2 | 11299.5 | 11868.9 | 12456.4 | 12876.1 | 12520.0 | 11841.7 | 11220.1 | 10991.0 |
| 55° | 10525.9 | 10575.8 | 11050.0 | 11850.7 | 12651.5 | 13216.4 | 13114.3 | 12451.9 | 11807.6 | 11571.7 |
| 57.5° | 9666.2 | 9736.5 | 10290.0 | 11335.8 | 12608.4 | 13450.1 | 13574.8 | 13037.2 | 12395.2 | 12168.3 |
| 60° | 8461.6 | 8545.5 | 9076.3 | 10217.4 | 12000.5 | 13536.3 | 13899.2 | 13606.6 | 12935.1 | 12715.1 |
| 62.5° | 6644.5 | 6753.4 | 7388.6 | 8727.0 | 10716.5 | 13134.7 | 14176.0 | 14121.5 | 13420.6 | 13146.1 |
| 65° | 4262.5 | 4378.2 | 5047.5 | 6628.6 | 9003.8 | 11905.2 | 14262.2 | 14622.9 | 13933.3 | 13549.9 |
| 67.5° | 2570.2 | 2622.4 | 2953.6 | 4017.5 | 6581.0 | 10051.8 | 13531.7 | 15178.7 | 14532.1 | 14055.8 |
| 70° | 1644.7 | 1674.2 | 1871.5 | 2359.3 | 3720.4 | 7334.1 | 11721.4 | 15283.0 | 15258.1 | 14575.2 |
| 72.5° | 1116.1 | 1125.2 | 1177.4 | 1397.4 | 2105.2 | 4167.3 | 8645.3 | 13835.7 | 15711.8 | 15244.5 |
| 75° | 816.7 | 866.6 | 950.5 | 989.1 | 1195.5 | 2082.5 | 4954.4 | 9720.6 | 13241.4 | 13445.5 |
| 77.5° | 608.0 | 610.2 | 725.9 | 771.3 | 853.0 | 1109.3 | 2096.1 | 5426.3 | 8221.1 | 8631.7 |
| 80° | 515.0 | 487.7 | 485.5 | 621.6 | 642.0 | 691.9 | 936.9 | 1873.8 | 2944.5 | 1785.3 |
| 82.5° | 428.8 | 399.3 | 360.7 | 485.5 | 437.8 | 424.2 | 406.1 | 762.2 | 936.9 | 460.5 |
| 85° | 299.4 | 285.8 | 272.2 | 317.6 | 249.5 | 213.2 | 195.1 | 356.2 | 394.7 | 195.1 |
| 87.5° | 129.3 | 133.8 | 136.1 | 140.6 | 104.4 | 74.9 | 74.9 | 99.8 | 99.8 | 77.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4759.4 |
| 4788.8 |
| 4904.5 |
| 5101.9 |
| 5333.3 |
| 5562.4 |
| 5805.1 |
| 5988.9 |
| 6138.6 |
| 6279.3 |
| 6438.1 |
| 6603.7 |
| 6787.4 |
| 7061.9 |
| 7388.6 |
| 7774.2 |
| 8248.3 |
| 8752.0 |
| 9282.8 |
| 9872.6 |
| 10469.2 |
| 11050.0 |
| 11637.5 |
| 12220.5 |
| 12762.7 |
| 13177.8 |
| 13597.5 |
| 14092.0 |
| 14570.7 |
| 15171.9 |
| 12951.0 |
| 7699.4 |
| 1349.8 |
| 392.5 |
| 172.4 |
| 56.7 |
| 0.0 |

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