

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: P953861

Luminaire Tested: **GALN-SB7B-750-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7B-750-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

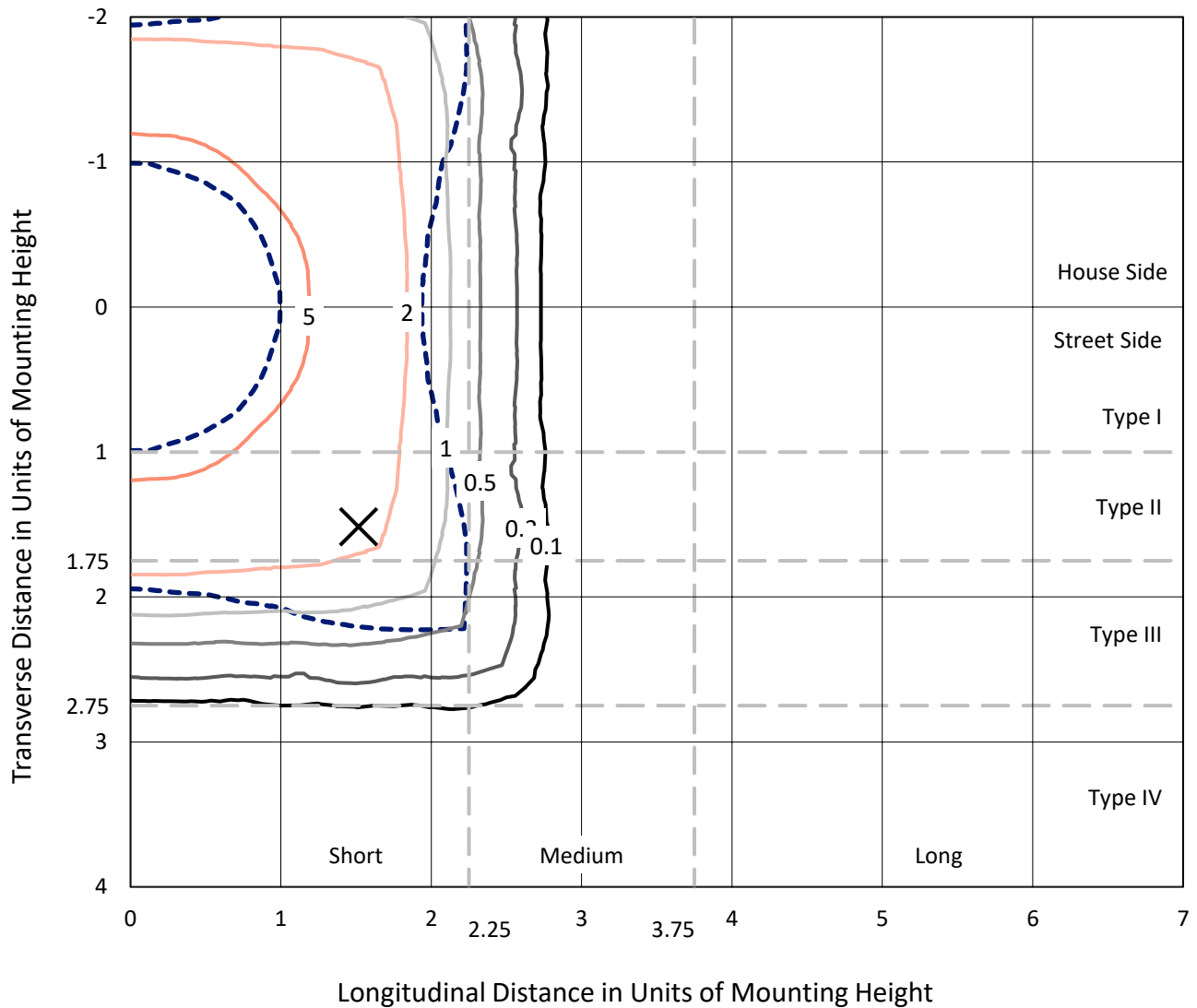
Lumens per Lamp: N/A  
Luminaire Lumens: 44397 lumens  
Efficiency: N/A  
Efficacy: 173.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

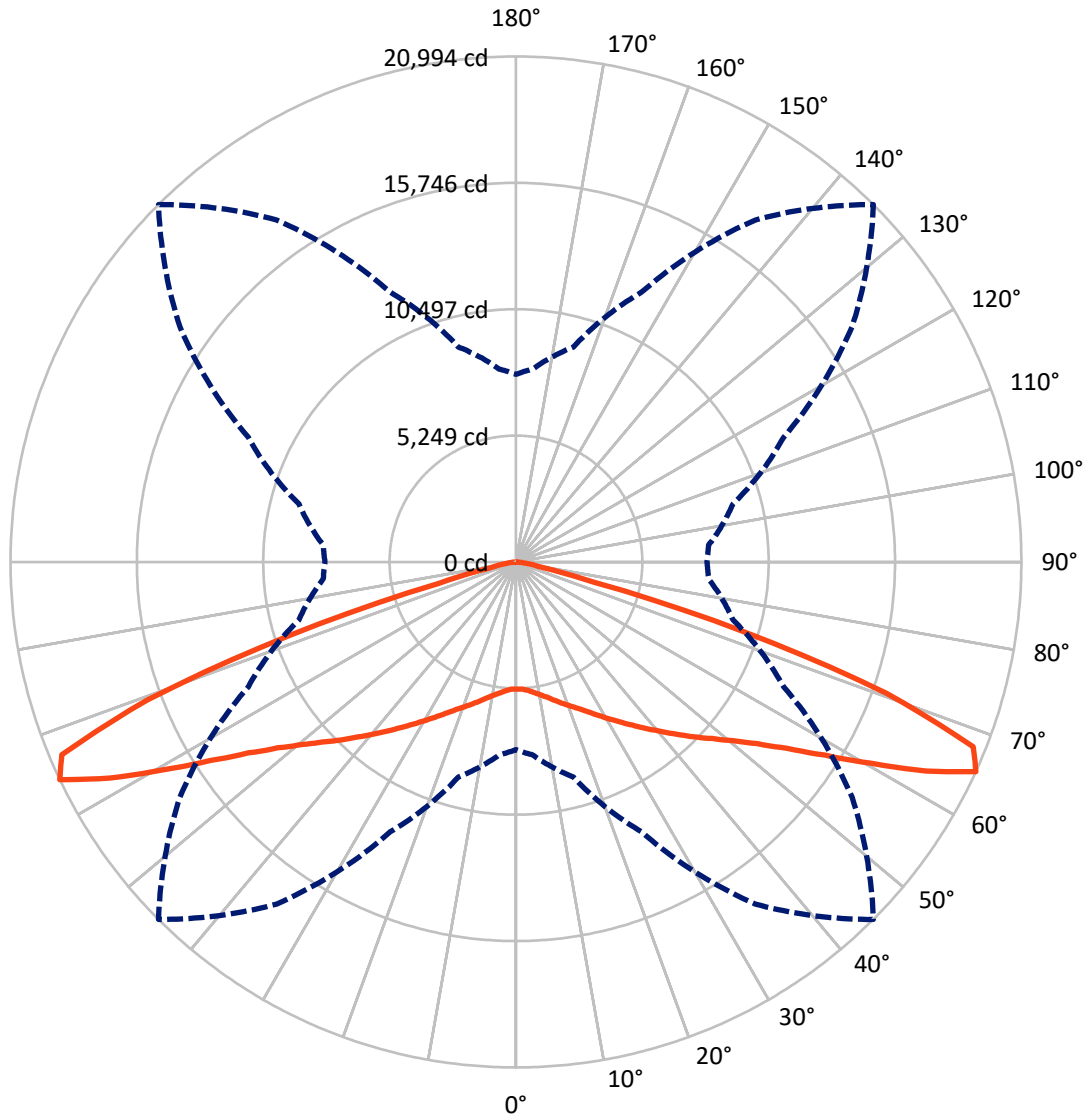
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 22198.5  | 0.0    | 22198.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 22198.5  | 0.0    | 22198.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 44397.0  | 0.0    | 44397.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 521.4   | 1.2       |
| 10°-20°   | 1701.5  | 3.8       |
| 20°-30°   | 3212.7  | 7.2       |
| 30°-40°   | 5260.6  | 11.8      |
| 40°-50°   | 8156.7  | 18.4      |
| 50°-60°   | 12049.1 | 27.1      |
| 60°-70°   | 11469.6 | 25.8      |
| 70°-80°   | 1850.8  | 4.2       |
| 80°-90°   | 174.5   | 0.4       |
| 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°    | 44397.0 | 100.0     |
| 0°-180°   | 44397.0 | 100.0     |

**Coefficient of Utilization**



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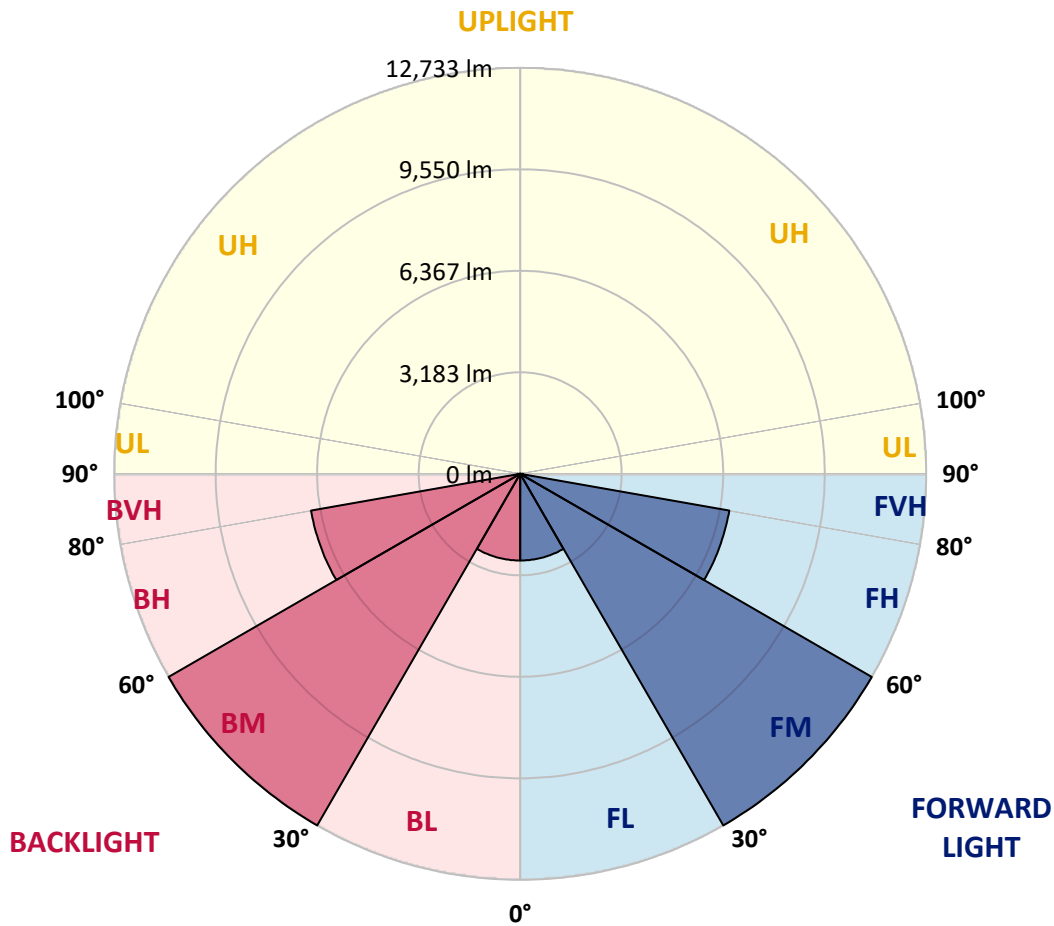
CATALOG NUMBER: GALN-SB7B-750-U-5NQ

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2717.8  | 6.1       |                         |      |         |
| FM (30°-60°)   | 12733.2 | 28.7      |                         |      |         |
| FH (60°-80°)   | 6660.2  | 15.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 87.2    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2717.8  | 6.1       | B4/5000                 |      |         |
| BM (30°-60°)   | 12733.2 | 28.7      | B5                      |      |         |
| BH (60°-80°)   | 6660.2  | 15.0      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 87.2    | 0.2       |                         |      | G1/100  |
| 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°    | 5283.7  | 5283.7  | 5283.7  | 5283.7  | 5283.7  | 5283.7  | 5283.7  | 5283.7  | 5283.7  | 5283.7  |
| 2.5°  | 5319.3  | 5301.5  | 5314.9  | 5303.7  | 5294.8  | 5285.9  | 5290.4  | 5306.0  | 5312.6  | 5314.9  |
| 5°    | 5390.6  | 5375.0  | 5381.7  | 5381.7  | 5366.1  | 5361.7  | 5363.9  | 5375.0  | 5388.4  | 5388.4  |
| 7.5°  | 5506.4  | 5490.8  | 5506.4  | 5497.5  | 5484.2  | 5479.7  | 5477.5  | 5486.4  | 5506.4  | 5506.4  |
| 10°   | 5646.8  | 5629.0  | 5637.9  | 5633.4  | 5617.8  | 5611.1  | 5608.9  | 5622.3  | 5640.1  | 5637.9  |
| 12.5° | 5800.5  | 5780.4  | 5791.6  | 5778.2  | 5773.7  | 5767.1  | 5767.1  | 5764.8  | 5776.0  | 5767.1  |
| 15°   | 5972.0  | 5958.6  | 5963.1  | 5954.2  | 5960.9  | 5956.4  | 5938.6  | 5929.7  | 5934.1  | 5920.8  |
| 17.5° | 6174.7  | 6143.5  | 6159.1  | 6154.6  | 6154.6  | 6163.6  | 6134.6  | 6123.5  | 6132.4  | 6119.0  |
| 20°   | 6408.6  | 6377.4  | 6384.1  | 6375.2  | 6364.0  | 6372.9  | 6337.3  | 6346.2  | 6352.9  | 6344.0  |
| 22.5° | 6664.8  | 6624.7  | 6622.4  | 6626.9  | 6602.4  | 6604.6  | 6580.1  | 6602.4  | 6615.7  | 6591.2  |
| 25°   | 6927.6  | 6885.3  | 6914.2  | 6903.1  | 6871.9  | 6878.6  | 6860.8  | 6883.0  | 6894.2  | 6863.0  |
| 27.5° | 7206.0  | 7177.1  | 7203.8  | 7210.5  | 7172.6  | 7199.4  | 7172.6  | 7192.7  | 7203.8  | 7157.0  |
| 30°   | 7531.3  | 7502.3  | 7526.8  | 7544.6  | 7500.1  | 7542.4  | 7520.1  | 7533.5  | 7535.7  | 7480.0  |
| 32.5° | 7885.4  | 7840.9  | 7903.3  | 7912.2  | 7863.2  | 7914.4  | 7885.4  | 7903.3  | 7914.4  | 7838.7  |
| 35°   | 8317.6  | 8261.9  | 8333.2  | 8322.0  | 8279.7  | 8322.0  | 8295.3  | 8322.0  | 8348.8  | 8257.4  |
| 37.5° | 8783.1  | 8725.2  | 8800.9  | 8780.9  | 8740.8  | 8769.8  | 8754.2  | 8772.0  | 8814.3  | 8716.3  |
| 40°   | 9295.5  | 9224.2  | 9326.6  | 9291.0  | 9253.1  | 9248.7  | 9257.6  | 9268.7  | 9324.4  | 9215.3  |
| 42.5° | 9843.4  | 9767.7  | 9921.4  | 9865.7  | 9812.2  | 9776.6  | 9805.6  | 9827.8  | 9881.3  | 9758.8  |
| 45°   | 10469.4 | 10382.5 | 10583.0 | 10516.1 | 10431.5 | 10358.0 | 10404.8 | 10438.2 | 10516.1 | 10369.1 |
| 47.5° | 11159.9 | 11061.9 | 11275.7 | 11255.7 | 11117.6 | 10957.2 | 11064.1 | 11159.9 | 11217.8 | 11039.6 |
| 50°   | 11834.8 | 11759.1 | 12039.8 | 12064.3 | 11895.0 | 11670.0 | 11819.2 | 11964.0 | 11979.6 | 11745.7 |
| 52.5° | 12467.5 | 12391.7 | 12799.4 | 12953.1 | 12801.6 | 12534.3 | 12692.4 | 12839.4 | 12721.4 | 12418.4 |
| 55°   | 12973.1 | 12910.7 | 13429.7 | 13826.2 | 13877.5 | 13656.9 | 13750.5 | 13746.1 | 13358.5 | 12892.9 |
| 57.5° | 13095.6 | 13086.7 | 13741.6 | 14581.4 | 15116.0 | 15142.7 | 14957.8 | 14485.6 | 13650.3 | 13024.3 |
| 60°   | 12538.7 | 12594.4 | 13494.3 | 14975.6 | 16401.3 | 16993.8 | 16194.1 | 14846.4 | 13318.4 | 12449.6 |
| 62.5° | 10872.5 | 11019.6 | 12104.4 | 14494.5 | 17439.3 | 19123.3 | 17185.3 | 14298.5 | 11955.1 | 10821.3 |
| 65°   | 7791.9  | 8048.0  | 9246.5  | 12369.4 | 17345.7 | 20994.4 | 17042.8 | 12269.2 | 9335.6  | 8028.0  |
| 67.5° | 3535.1  | 3795.7  | 4813.7  | 8469.0  | 15078.1 | 20486.5 | 15042.5 | 8558.1  | 5054.3  | 3809.1  |
| 70°   | 1280.8  | 1325.4  | 1652.8  | 3390.3  | 9636.3  | 16323.3 | 10048.4 | 3414.8  | 1757.5  | 1412.3  |
| 72.5° | 775.2   | 781.9   | 850.9   | 1214.0  | 3348.0  | 9910.3  | 3490.5  | 1254.1  | 868.7   | 770.7   |
| 75°   | 492.3   | 487.8   | 605.9   | 741.8   | 1187.3  | 3343.5  | 1245.2  | 741.8   | 603.7   | 550.2   |
| 77.5° | 354.2   | 365.3   | 434.4   | 554.7   | 748.4   | 1133.8  | 735.1   | 530.2   | 434.4   | 356.4   |
| 80°   | 265.1   | 271.8   | 316.3   | 432.1   | 525.7   | 706.1   | 467.8   | 392.0   | 327.4   | 222.8   |
| 82.5° | 191.6   | 191.6   | 207.2   | 314.1   | 320.8   | 380.9   | 253.9   | 276.2   | 216.1   | 158.2   |
| 85°   | 113.6   | 111.4   | 129.2   | 187.1   | 167.1   | 140.3   | 115.8   | 169.3   | 135.9   | 98.0    |
| 87.5° | 40.1    | 42.3    | 40.1    | 53.5    | 44.6    | 37.9    | 35.6    | 46.8    | 37.9    | 33.4    |
| 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°     |
|---------|
| 5283.7  |
| 5314.9  |
| 5388.4  |
| 5499.8  |
| 5633.4  |
| 5771.5  |
| 5923.0  |
| 6130.1  |
| 6364.0  |
| 6615.7  |
| 6898.6  |
| 7192.7  |
| 7513.4  |
| 7889.9  |
| 8313.1  |
| 8776.4  |
| 9250.9  |
| 9823.4  |
| 10444.9 |
| 11099.8 |
| 11774.7 |
| 12427.4 |
| 12908.5 |
| 12984.2 |
| 12347.2 |
| 10754.5 |
| 7932.2  |
| 3753.4  |
| 1394.4  |
| 784.1   |
| 554.7   |
| 363.1   |
| 229.4   |
| 158.2   |
| 95.8    |
| 31.2    |
| 0.0     |

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