

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: P957388

Luminaire Tested: **GALN-SB9D-735-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957388  
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-SB9D-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

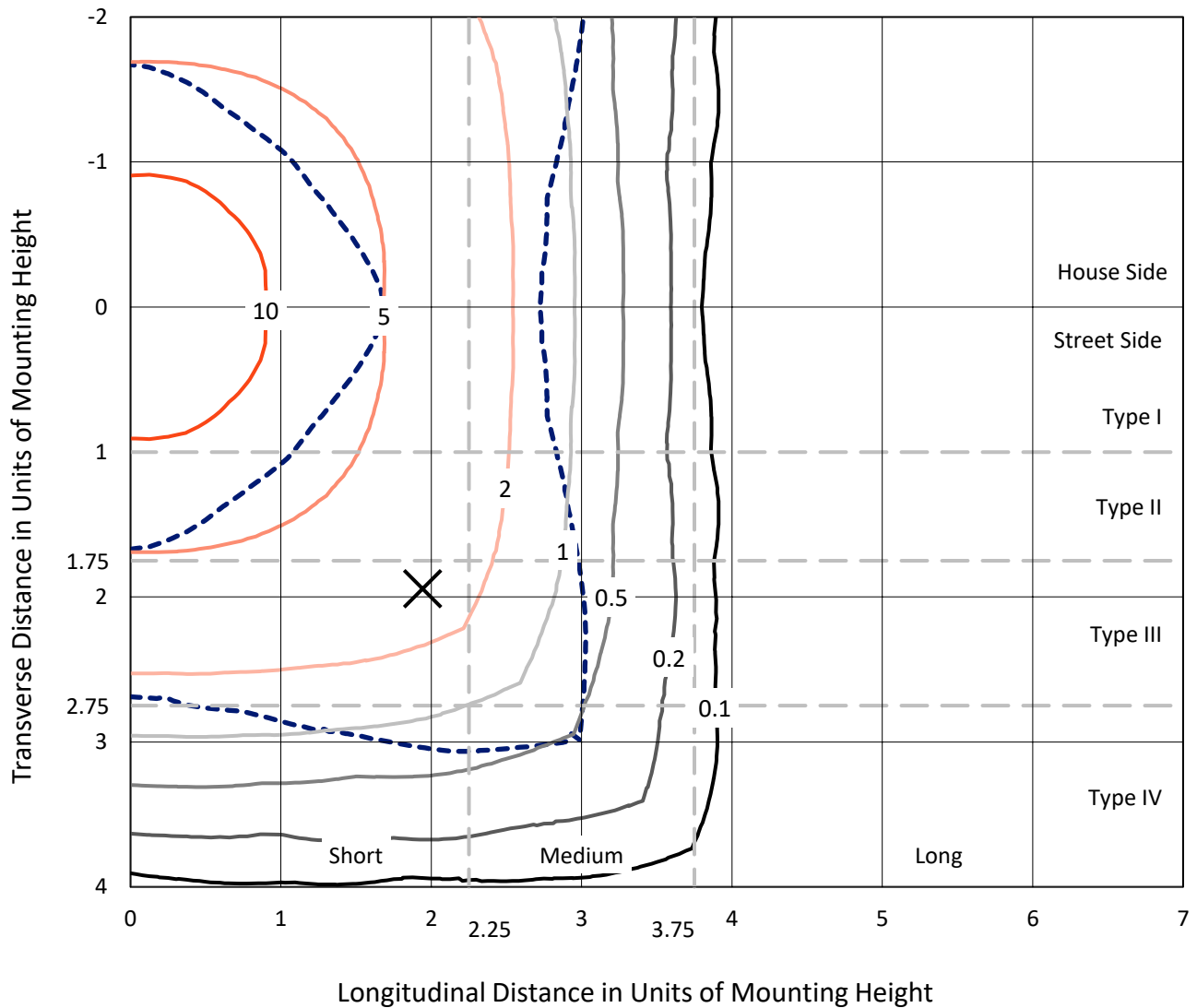
Lumens per Lamp: N/A  
Luminaire Lumens: 97067 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

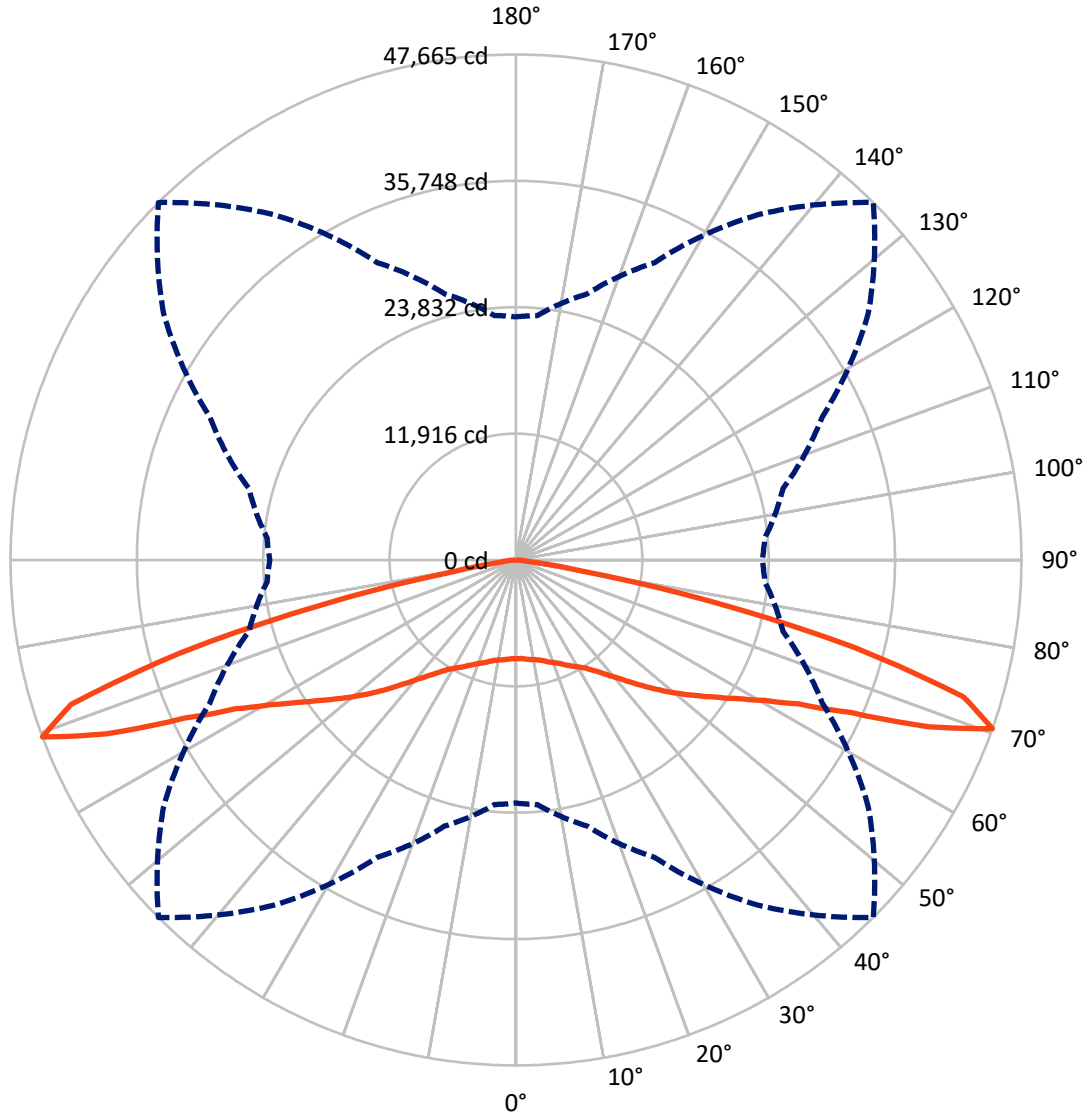
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type V - Short - N/A

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CATALOG NUMBER: GALN-SB9D-735-U-5MQ

### 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    | 48533.5  | 0.0    | 48533.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 48533.5  | 0.0    | 48533.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 97067.0  | 0.0    | 97067.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 903.3   | 0.9       |
| 10°-20°   | 2801.0  | 2.9       |
| 20°-30°   | 5005.8  | 5.2       |
| 30°-40°   | 8114.3  | 8.4       |
| 40°-50°   | 13216.9 | 13.6      |
| 50°-60°   | 20151.3 | 20.8      |
| 60°-70°   | 29978.7 | 30.9      |
| 70°-80°   | 16339.4 | 16.8      |
| 80°-90°   | 556.4   | 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°    | 97067.0 | 100.0     |
| 0°-180°   | 97067.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P957388

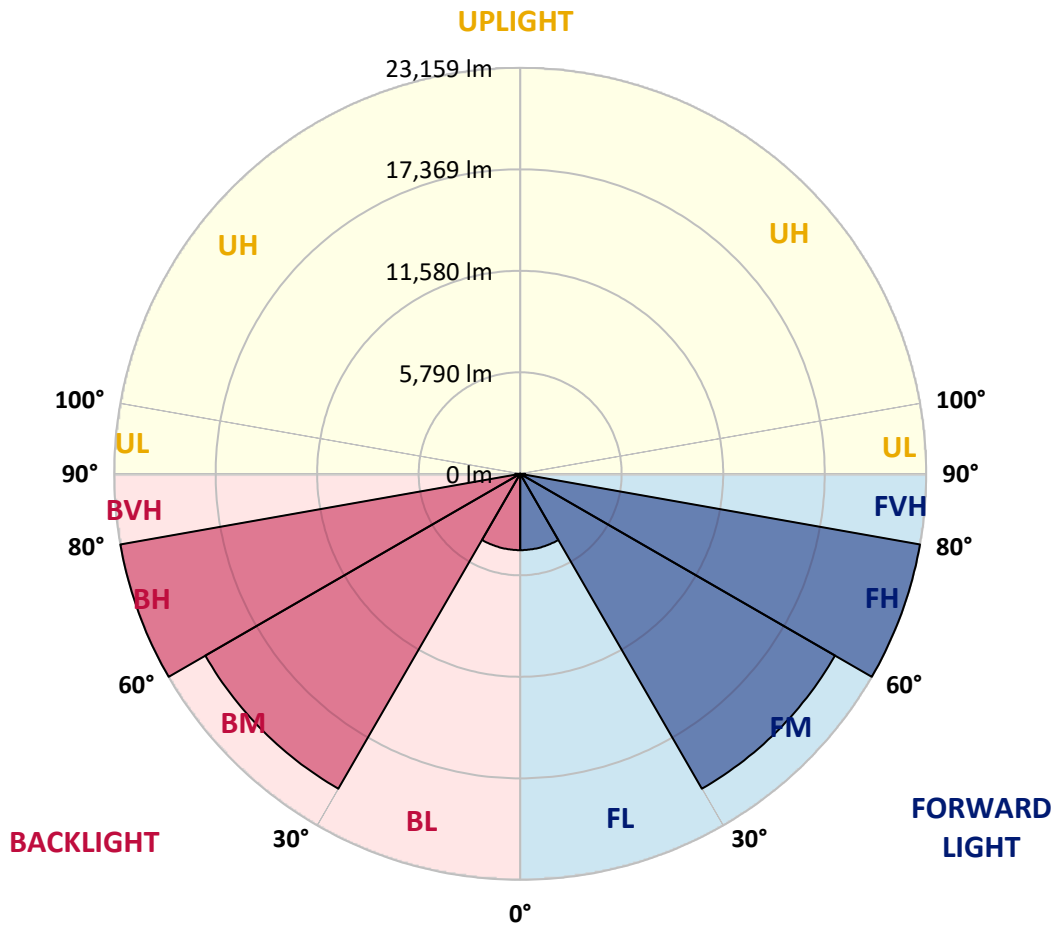
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 4355.1  | 4.5       |                         |      |        |
| FM (30°-60°)   | 20741.2 | 21.4      |                         |      |        |
| FH (60°-80°)   | 23159.0 | 23.9      |                         |      | G5     |
| FVH (80°-90°)  | 278.2   | 0.3       |                         |      | G3/500 |
| BL (0°-30°)    | 4355.1  | 4.5       | B4/5000                 |      |        |
| BM (30°-60°)   | 20741.2 | 21.4      | B5                      |      |        |
| BH (60°-80°)   | 23159.0 | 23.9      | B5                      |      | G5     |
| BVH (80°-90°)  | 278.2   | 0.3       |                         |      | 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 V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9298.0  | 9298.0  | 9298.0  | 9298.0  | 9298.0  | 9298.0  | 9298.0  | 9298.0  | 9298.0  | 9298.0  |
| 2.5°  | 9341.9  | 9351.6  | 9332.1  | 9322.4  | 9312.6  | 9298.0  | 9302.9  | 9327.3  | 9346.7  | 9341.9  |
| 5°    | 9419.8  | 9429.6  | 9415.0  | 9410.1  | 9390.6  | 9385.7  | 9385.7  | 9410.1  | 9424.7  | 9415.0  |
| 7.5°  | 9507.6  | 9522.2  | 9497.8  | 9492.9  | 9483.2  | 9473.4  | 9468.6  | 9492.9  | 9507.6  | 9507.6  |
| 10°   | 9590.4  | 9605.0  | 9585.5  | 9570.9  | 9561.2  | 9561.2  | 9551.4  | 9570.9  | 9595.3  | 9590.4  |
| 12.5° | 9678.1  | 9687.9  | 9668.4  | 9658.6  | 9658.6  | 9673.2  | 9658.6  | 9668.4  | 9687.9  | 9678.1  |
| 15°   | 9785.3  | 9790.2  | 9785.3  | 9800.0  | 9824.3  | 9873.0  | 9829.2  | 9819.4  | 9829.2  | 9804.8  |
| 17.5° | 9931.5  | 9941.3  | 9960.8  | 9994.9  | 10029.0 | 10116.7 | 10038.7 | 10014.4 | 10014.4 | 9965.6  |
| 20°   | 10111.8 | 10126.5 | 10155.7 | 10214.2 | 10258.0 | 10340.9 | 10262.9 | 10228.8 | 10214.2 | 10150.8 |
| 22.5° | 10301.9 | 10326.3 | 10370.1 | 10448.1 | 10526.1 | 10604.0 | 10526.1 | 10467.6 | 10423.7 | 10340.9 |
| 25°   | 10521.2 | 10550.4 | 10618.6 | 10745.3 | 10852.6 | 10964.6 | 10872.0 | 10755.1 | 10667.4 | 10550.4 |
| 27.5° | 10833.1 | 10867.2 | 10950.0 | 11106.0 | 11242.4 | 11339.9 | 11252.2 | 11101.1 | 10979.3 | 10837.9 |
| 30°   | 11271.6 | 11305.8 | 11403.2 | 11568.9 | 11661.5 | 11724.9 | 11666.4 | 11549.4 | 11403.2 | 11242.4 |
| 32.5° | 11836.9 | 11880.8 | 11988.0 | 12143.9 | 12163.4 | 12173.2 | 12153.7 | 12095.2 | 11988.0 | 11793.1 |
| 35°   | 12553.3 | 12602.0 | 12723.9 | 12850.6 | 12831.1 | 12850.6 | 12821.3 | 12801.8 | 12723.9 | 12499.7 |
| 37.5° | 13430.5 | 13488.9 | 13615.6 | 13713.1 | 13664.4 | 13640.0 | 13644.9 | 13649.8 | 13605.9 | 13357.4 |
| 40°   | 14449.0 | 14526.9 | 14619.5 | 14721.9 | 14639.0 | 14565.9 | 14614.6 | 14653.6 | 14614.6 | 14361.2 |
| 42.5° | 15496.7 | 15608.8 | 15706.2 | 15852.4 | 15784.2 | 15691.6 | 15759.8 | 15803.7 | 15720.9 | 15448.0 |
| 45°   | 16661.4 | 16768.6 | 16895.3 | 17114.6 | 17065.9 | 16968.4 | 17065.9 | 17075.6 | 16934.3 | 16612.6 |
| 47.5° | 17865.1 | 17977.1 | 18167.2 | 18459.6 | 18440.1 | 18332.9 | 18459.6 | 18391.4 | 18211.0 | 17826.1 |
| 50°   | 19005.4 | 19161.3 | 19453.7 | 19863.1 | 19902.0 | 19770.5 | 19941.0 | 19809.4 | 19507.3 | 19024.9 |
| 52.5° | 20077.5 | 20243.2 | 20706.1 | 21261.7 | 21403.0 | 21232.4 | 21461.5 | 21232.4 | 20779.2 | 20160.3 |
| 55°   | 21203.2 | 21388.4 | 21939.0 | 22665.1 | 22947.8 | 22821.1 | 23035.5 | 22689.5 | 22046.2 | 21295.8 |
| 57.5° | 22528.7 | 22640.8 | 23298.6 | 24161.2 | 24638.8 | 24668.0 | 24765.5 | 24180.7 | 23401.0 | 22548.2 |
| 60°   | 23966.3 | 24122.2 | 24838.6 | 25871.7 | 26627.0 | 26870.7 | 26768.3 | 25900.9 | 24994.5 | 24015.0 |
| 62.5° | 25808.3 | 25978.9 | 26836.6 | 28074.3 | 29268.3 | 29872.6 | 29472.9 | 28215.7 | 27094.8 | 25920.4 |
| 65°   | 27333.6 | 27523.7 | 29073.3 | 31280.9 | 33454.3 | 34667.8 | 33663.9 | 31349.1 | 29331.6 | 27674.7 |
| 67.5° | 26227.4 | 26461.3 | 28893.0 | 32947.5 | 38351.9 | 41972.6 | 38537.1 | 33444.6 | 29492.4 | 27245.9 |
| 70°   | 22923.4 | 23142.7 | 25978.9 | 30934.9 | 39731.0 | 47664.5 | 40559.4 | 31846.2 | 26071.5 | 23556.9 |
| 72.5° | 15218.9 | 15925.5 | 18795.8 | 24741.1 | 35476.7 | 44107.1 | 35827.6 | 24239.2 | 17436.2 | 15184.8 |
| 75°   | 5048.6  | 5613.9  | 7572.9  | 12826.2 | 23761.6 | 32986.5 | 22621.3 | 11349.6 | 5998.9  | 4317.6  |
| 77.5° | 1271.9  | 1466.8  | 2022.4  | 3669.5  | 9478.3  | 18781.2 | 8532.9  | 2997.0  | 1632.5  | 1140.3  |
| 80°   | 618.9   | 682.2   | 974.6   | 1223.2  | 2373.2  | 5969.6  | 2227.0  | 1150.1  | 770.0   | 594.5   |
| 82.5° | 341.1   | 346.0   | 550.7   | 692.0   | 882.0   | 1544.8  | 916.2   | 672.5   | 443.5   | 360.6   |
| 85°   | 209.5   | 204.7   | 292.4   | 370.4   | 370.4   | 550.7   | 438.6   | 370.4   | 253.4   | 224.2   |
| 87.5° | 82.8    | 82.8    | 107.2   | 117.0   | 102.3   | 141.3   | 112.1   | 121.8   | 97.5    | 92.6    |
| 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°     |
|---------|
| 9298.0  |
| 9346.7  |
| 9419.8  |
| 9507.6  |
| 9590.4  |
| 9673.2  |
| 9804.8  |
| 9965.6  |
| 10150.8 |
| 10336.0 |
| 10545.5 |
| 10833.1 |
| 11242.4 |
| 11798.0 |
| 12499.7 |
| 13357.4 |
| 14361.2 |
| 15467.5 |
| 16646.8 |
| 17801.7 |
| 19015.1 |
| 20101.8 |
| 21193.4 |
| 22431.2 |
| 23859.1 |
| 25715.7 |
| 27401.9 |
| 26909.7 |
| 23220.7 |
| 14692.6 |
| 4083.7  |
| 1018.5  |
| 545.8   |
| 360.6   |
| 233.9   |
| 97.5    |
| 0.0     |

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