

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: P948022

Luminaire Tested: **GALN-SB3A-950-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948022  
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-SB3A-950-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

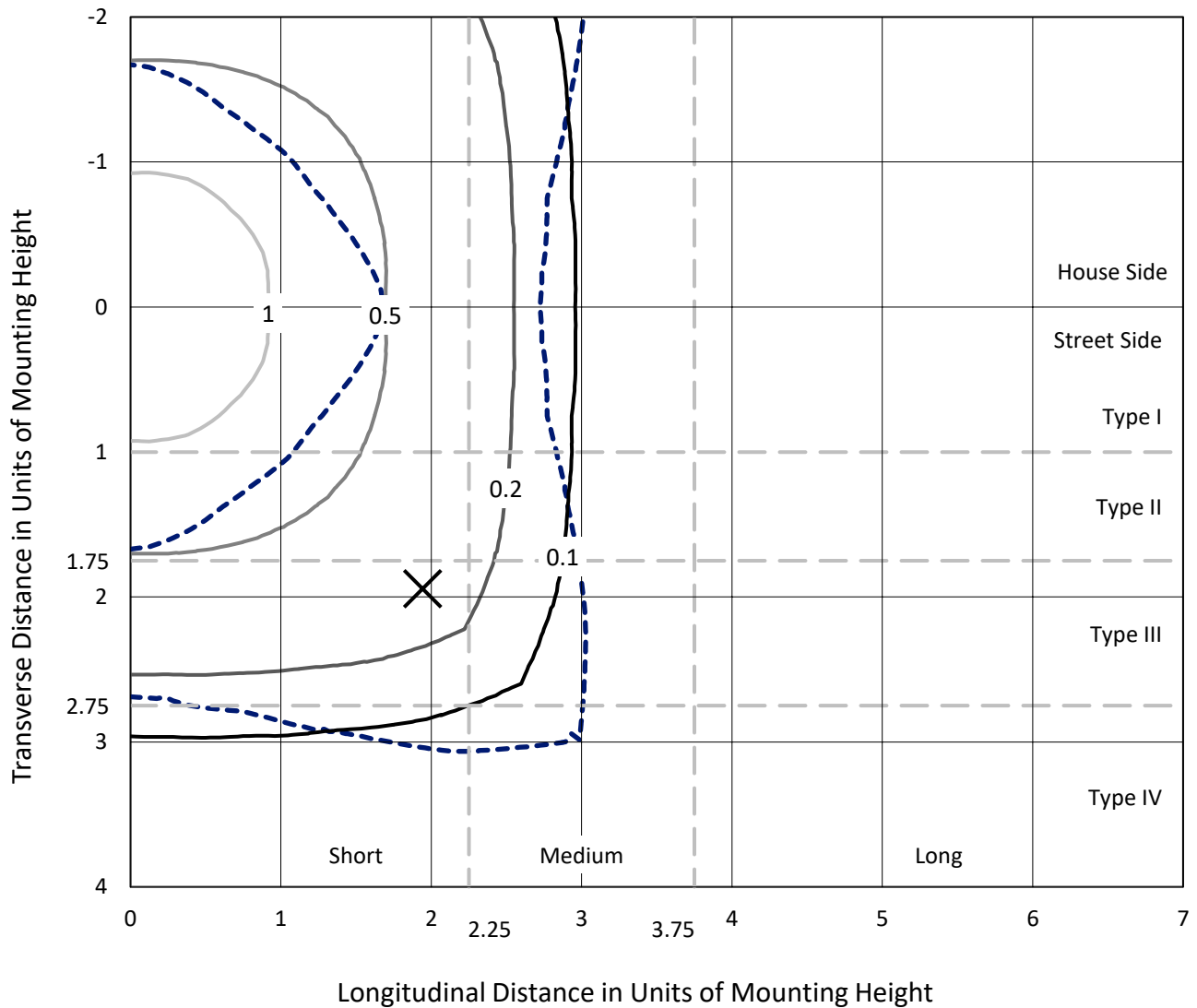
Lumens per Lamp: N/A  
Luminaire Lumens: 9805 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

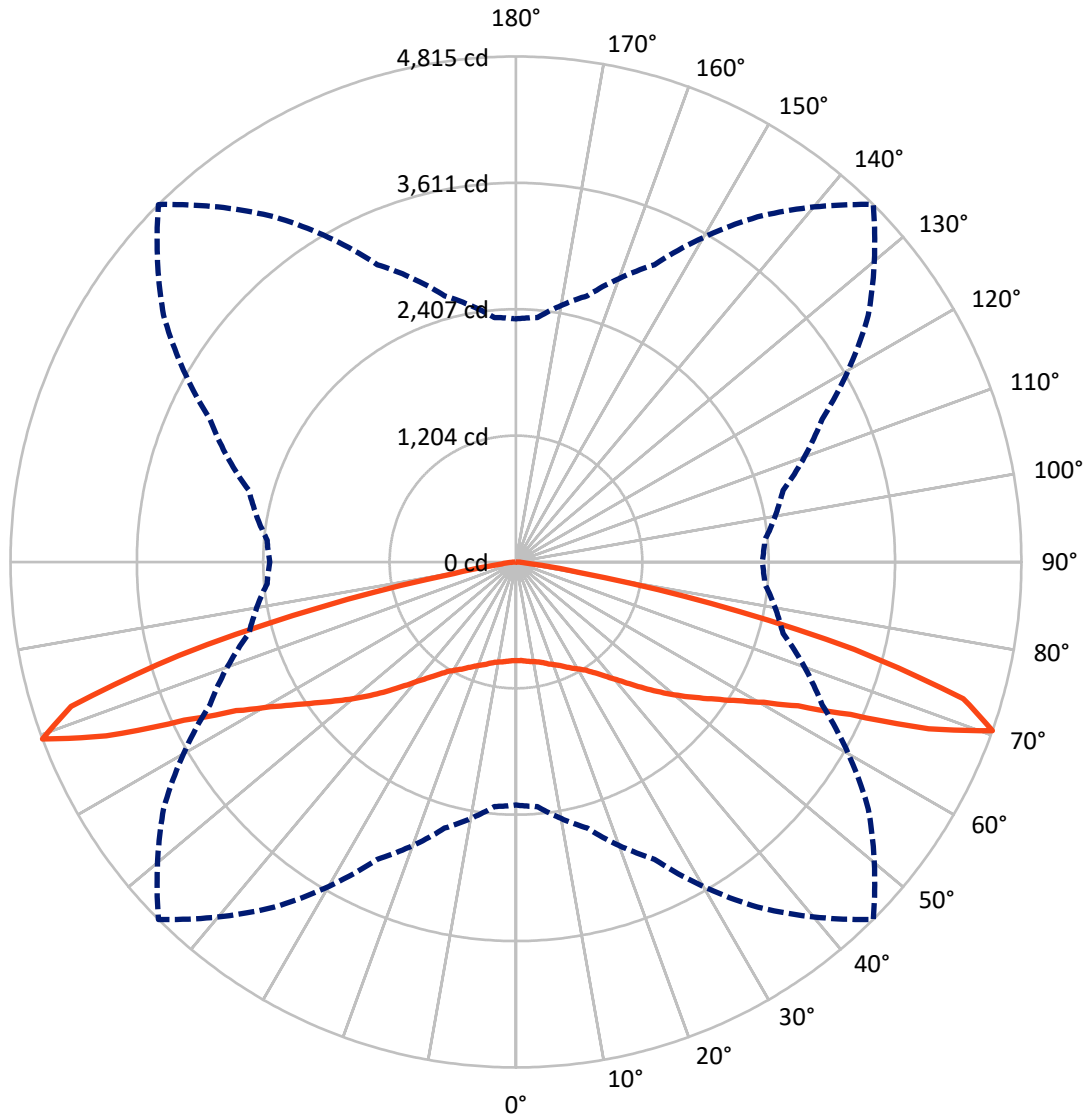
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4902.5   | 0.0    | 4902.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4902.5   | 0.0    | 4902.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9805.0   | 0.0    | 9805.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.2   | 0.9       |
| 10°-20°   | 282.9  | 2.9       |
| 20°-30°   | 505.6  | 5.2       |
| 30°-40°   | 819.7  | 8.4       |
| 40°-50°   | 1335.1 | 13.6      |
| 50°-60°   | 2035.5 | 20.8      |
| 60°-70°   | 3028.2 | 30.9      |
| 70°-80°   | 1650.5 | 16.8      |
| 80°-90°   | 56.2   | 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°    | 9805.0 | 100.0     |
| 0°-180°   | 9805.0 | 100.0     |

**Coefficient of Utilization**



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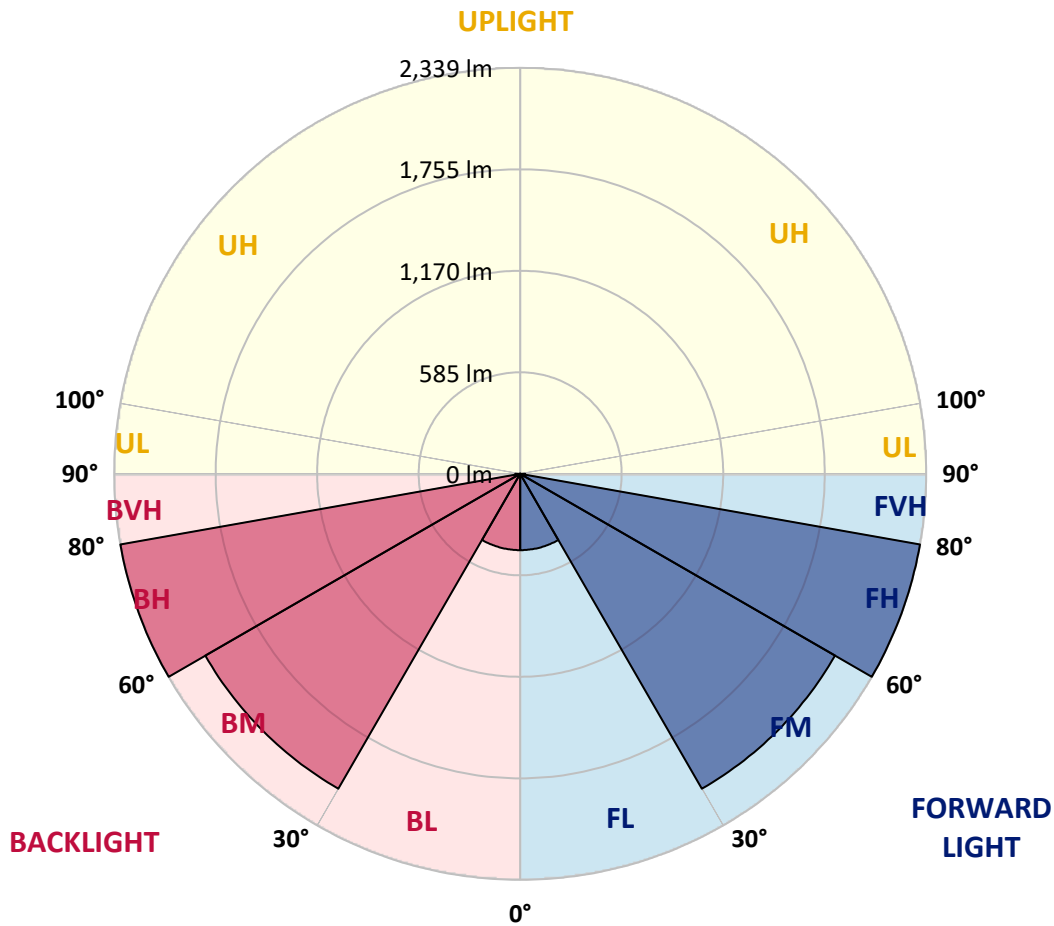
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 439.9  | 4.5       |                         |      |         |
| FM (30°-60°)   | 2095.1 | 21.4      |                         |      |         |
| FH (60°-80°)   | 2339.4 | 23.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 28.1   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 439.9  | 4.5       | B1/500                  |      |         |
| BM (30°-60°)   | 2095.1 | 21.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 2339.4 | 23.9      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 28.1   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 939.2  | 939.2  | 939.2  | 939.2  | 939.2  | 939.2  | 939.2  | 939.2  | 939.2  | 939.2  |
| 2.5°  | 943.6  | 944.6  | 942.7  | 941.7  | 940.7  | 939.2  | 939.7  | 942.2  | 944.1  | 943.6  |
| 5°    | 951.5  | 952.5  | 951.0  | 950.5  | 948.6  | 948.1  | 948.1  | 950.5  | 952.0  | 951.0  |
| 7.5°  | 960.4  | 961.9  | 959.4  | 958.9  | 957.9  | 956.9  | 956.4  | 958.9  | 960.4  | 960.4  |
| 10°   | 968.8  | 970.2  | 968.3  | 966.8  | 965.8  | 965.8  | 964.8  | 966.8  | 969.2  | 968.8  |
| 12.5° | 977.6  | 978.6  | 976.6  | 975.6  | 975.6  | 977.1  | 975.6  | 976.6  | 978.6  | 977.6  |
| 15°   | 988.4  | 988.9  | 988.4  | 989.9  | 992.4  | 997.3  | 992.9  | 991.9  | 992.9  | 990.4  |
| 17.5° | 1003.2 | 1004.2 | 1006.2 | 1009.6 | 1013.1 | 1021.9 | 1014.0 | 1011.6 | 1011.6 | 1006.7 |
| 20°   | 1021.4 | 1022.9 | 1025.9 | 1031.8 | 1036.2 | 1044.6 | 1036.7 | 1033.2 | 1031.8 | 1025.4 |
| 22.5° | 1040.6 | 1043.1 | 1047.5 | 1055.4 | 1063.3 | 1071.1 | 1063.3 | 1057.4 | 1052.9 | 1044.6 |
| 25°   | 1062.8 | 1065.7 | 1072.6 | 1085.4 | 1096.2 | 1107.6 | 1098.2 | 1086.4 | 1077.5 | 1065.7 |
| 27.5° | 1094.3 | 1097.7 | 1106.1 | 1121.8 | 1135.6 | 1145.5 | 1136.6 | 1121.4 | 1109.0 | 1094.8 |
| 30°   | 1138.6 | 1142.0 | 1151.9 | 1168.6 | 1178.0 | 1184.4 | 1178.5 | 1166.6 | 1151.9 | 1135.6 |
| 32.5° | 1195.7 | 1200.1 | 1210.9 | 1226.7 | 1228.7 | 1229.6 | 1227.7 | 1221.8 | 1210.9 | 1191.3 |
| 35°   | 1268.0 | 1273.0 | 1285.3 | 1298.1 | 1296.1 | 1298.1 | 1295.1 | 1293.1 | 1285.3 | 1262.6 |
| 37.5° | 1356.6 | 1362.6 | 1375.4 | 1385.2 | 1380.3 | 1377.8 | 1378.3 | 1378.8 | 1374.4 | 1349.3 |
| 40°   | 1459.5 | 1467.4 | 1476.8 | 1487.1 | 1478.7 | 1471.3 | 1476.3 | 1480.2 | 1476.3 | 1450.7 |
| 42.5° | 1565.4 | 1576.7 | 1586.5 | 1601.3 | 1594.4 | 1585.1 | 1591.9 | 1596.4 | 1588.0 | 1560.4 |
| 45°   | 1683.0 | 1693.8 | 1706.6 | 1728.8 | 1723.9 | 1714.0 | 1723.9 | 1724.9 | 1710.6 | 1678.1 |
| 47.5° | 1804.6 | 1815.9 | 1835.1 | 1864.7 | 1862.7 | 1851.9 | 1864.7 | 1857.8 | 1839.5 | 1800.7 |
| 50°   | 1919.8 | 1935.5 | 1965.1 | 2006.4 | 2010.4 | 1997.1 | 2014.3 | 2001.0 | 1970.5 | 1921.8 |
| 52.5° | 2028.1 | 2044.8 | 2091.6 | 2147.7 | 2162.0 | 2144.7 | 2167.9 | 2144.7 | 2099.0 | 2036.4 |
| 55°   | 2141.8 | 2160.5 | 2216.1 | 2289.5 | 2318.0 | 2305.2 | 2326.9 | 2291.9 | 2226.9 | 2151.1 |
| 57.5° | 2275.7 | 2287.0 | 2353.5 | 2440.6 | 2488.8 | 2491.8 | 2501.6 | 2442.6 | 2363.8 | 2277.7 |
| 60°   | 2420.9 | 2436.6 | 2509.0 | 2613.4 | 2689.7 | 2714.3 | 2703.9 | 2616.3 | 2524.8 | 2425.8 |
| 62.5° | 2607.0 | 2624.2 | 2710.8 | 2835.9 | 2956.5 | 3017.5 | 2977.1 | 2850.1 | 2736.9 | 2618.3 |
| 65°   | 2761.0 | 2780.2 | 2936.8 | 3159.8 | 3379.3 | 3501.9 | 3400.5 | 3166.7 | 2962.9 | 2795.5 |
| 67.5° | 2649.3 | 2672.9 | 2918.6 | 3328.1 | 3874.0 | 4239.8 | 3892.7 | 3378.3 | 2979.1 | 2752.2 |
| 70°   | 2315.6 | 2337.7 | 2624.2 | 3124.8 | 4013.3 | 4814.7 | 4097.0 | 3216.9 | 2633.6 | 2379.5 |
| 72.5° | 1537.3 | 1608.7 | 1898.6 | 2499.2 | 3583.6 | 4455.4 | 3619.0 | 2448.5 | 1761.3 | 1533.9 |
| 75°   | 510.0  | 567.1  | 765.0  | 1295.6 | 2400.2 | 3332.1 | 2285.0 | 1146.5 | 606.0  | 436.1  |
| 77.5° | 128.5  | 148.2  | 204.3  | 370.7  | 957.4  | 1897.1 | 861.9  | 302.7  | 164.9  | 115.2  |
| 80°   | 62.5   | 68.9   | 98.5   | 123.6  | 239.7  | 603.0  | 225.0  | 116.2  | 77.8   | 60.1   |
| 82.5° | 34.5   | 34.9   | 55.6   | 69.9   | 89.1   | 156.0  | 92.5   | 67.9   | 44.8   | 36.4   |
| 85°   | 21.2   | 20.7   | 29.5   | 37.4   | 37.4   | 55.6   | 44.3   | 37.4   | 25.6   | 22.6   |
| 87.5° | 8.4    | 8.4    | 10.8   | 11.8   | 10.3   | 14.3   | 11.3   | 12.3   | 9.8    | 9.4    |
| 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°    |
|--------|
| 939.2  |
| 944.1  |
| 951.5  |
| 960.4  |
| 968.8  |
| 977.1  |
| 990.4  |
| 1006.7 |
| 1025.4 |
| 1044.1 |
| 1065.2 |
| 1094.3 |
| 1135.6 |
| 1191.7 |
| 1262.6 |
| 1349.3 |
| 1450.7 |
| 1562.4 |
| 1681.5 |
| 1798.2 |
| 1920.8 |
| 2030.5 |
| 2140.8 |
| 2265.8 |
| 2410.1 |
| 2597.6 |
| 2767.9 |
| 2718.2 |
| 2345.6 |
| 1484.1 |
| 412.5  |
| 102.9  |
| 55.1   |
| 36.4   |
| 23.6   |
| 9.8    |
| 0.0    |

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