

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: P948716

Luminaire Tested: **GALN-SB3C-940-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948716  
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-SB3C-940-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

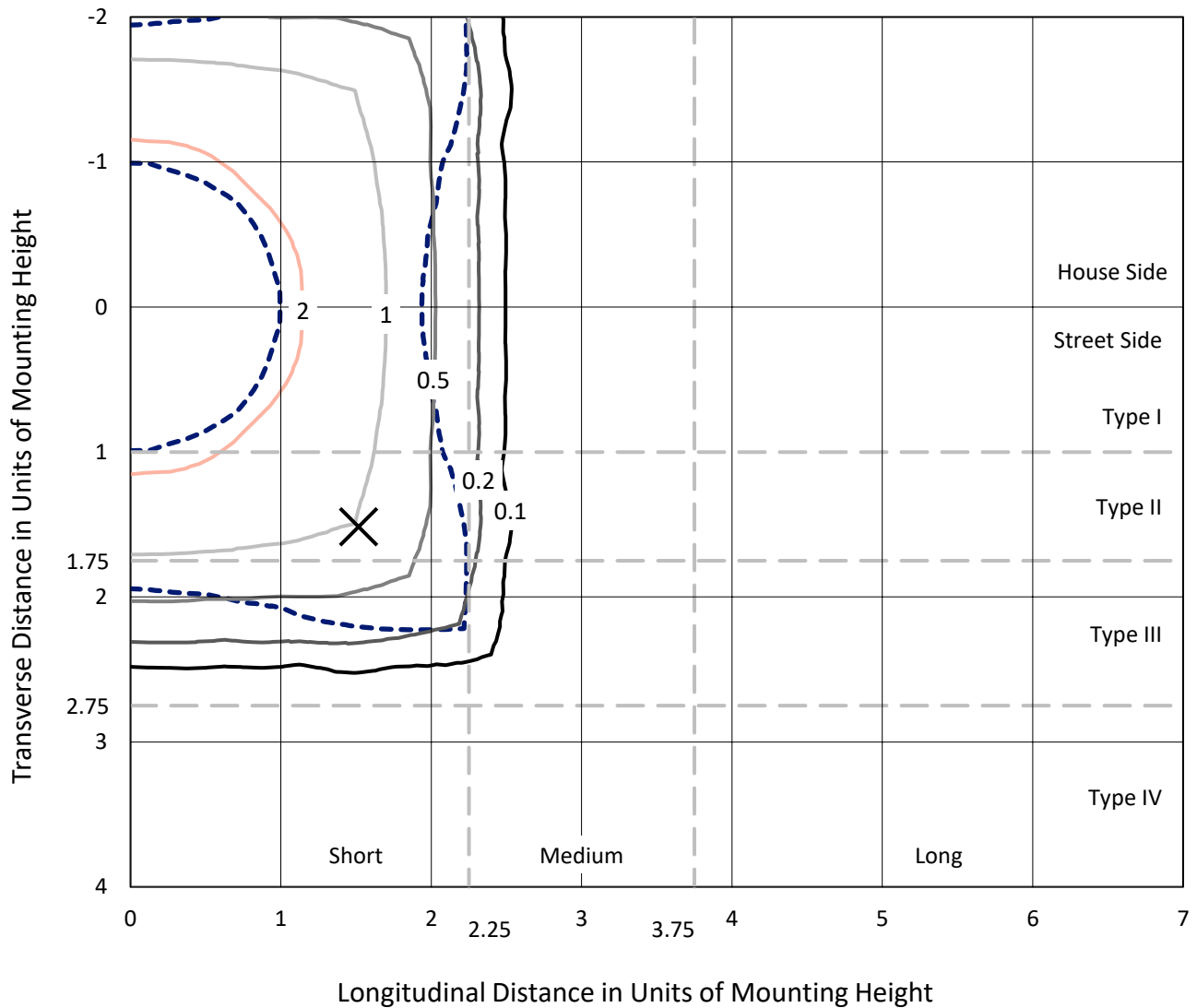
Lumens per Lamp: N/A  
Luminaire Lumens: 17062 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

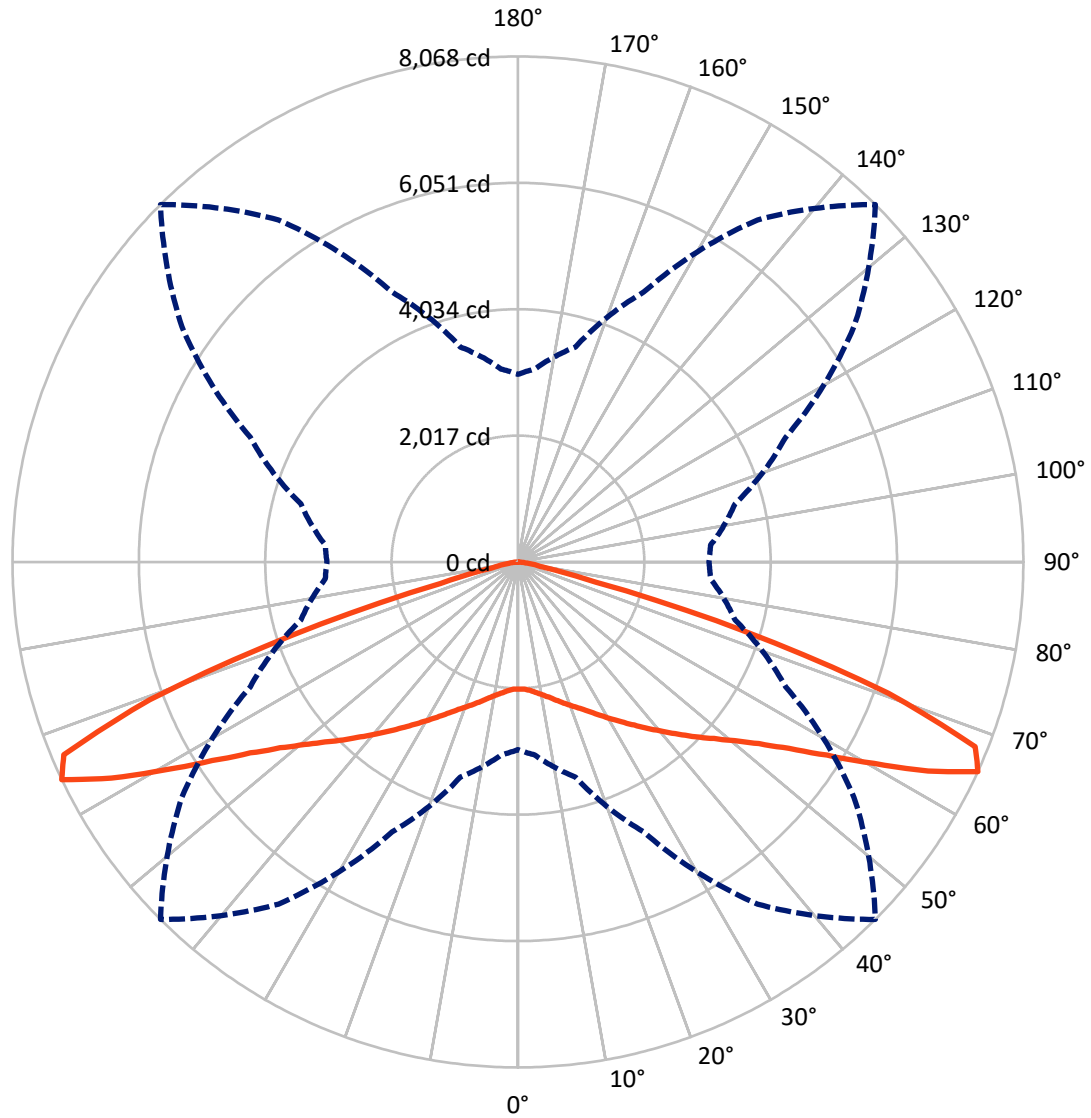
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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    | 8531.0   | 0.0    | 8531.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8531.0   | 0.0    | 8531.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17062.0  | 0.0    | 17062.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 200.4   | 1.2       |
| 10°-20°   | 653.9   | 3.8       |
| 20°-30°   | 1234.7  | 7.2       |
| 30°-40°   | 2021.7  | 11.8      |
| 40°-50°   | 3134.6  | 18.4      |
| 50°-60°   | 4630.5  | 27.1      |
| 60°-70°   | 4407.8  | 25.8      |
| 70°-80°   | 711.3   | 4.2       |
| 80°-90°   | 67.1    | 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°    | 17062.0 | 100.0     |
| 0°-180°   | 17062.0 | 100.0     |



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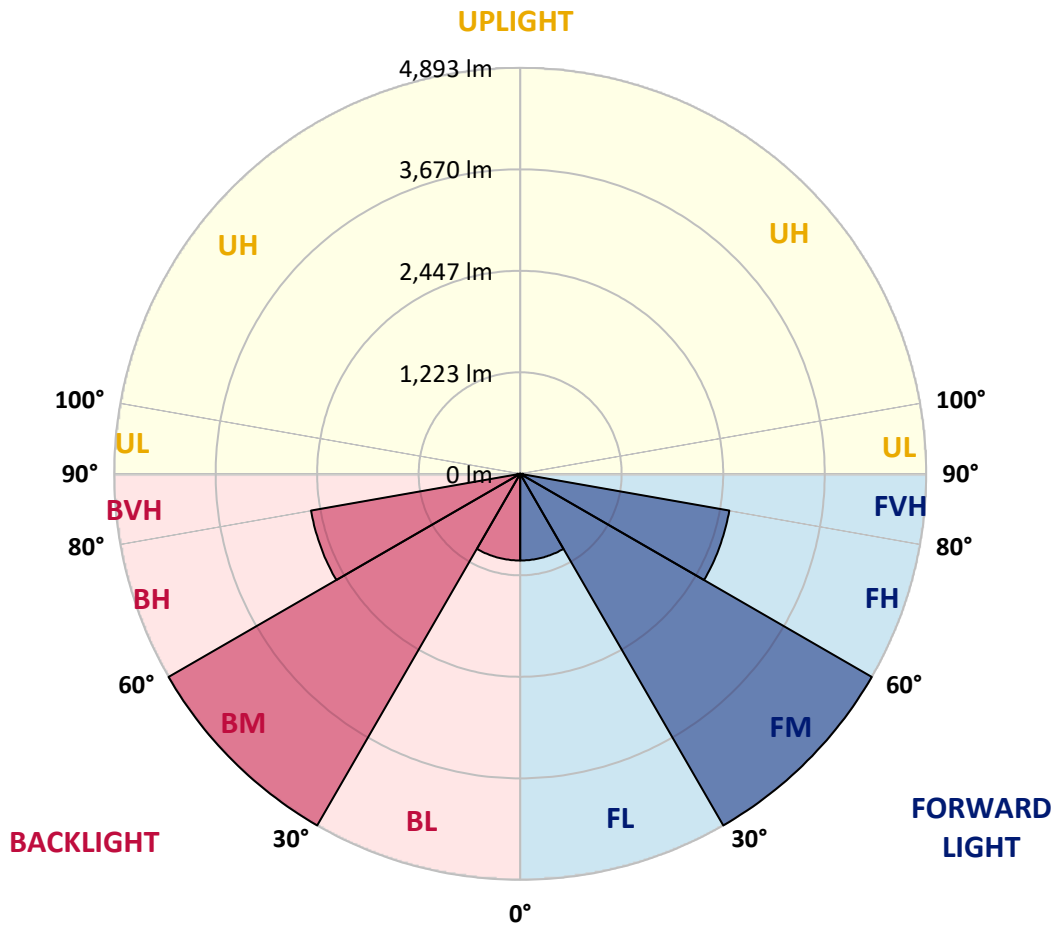
CATALOG NUMBER: GALN-SB3C-940-U-5NQ

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1044.5 | 6.1       |                         |      |         |
| FM (30°-60°)   | 4893.4 | 28.7      |                         |      |         |
| FH (60°-80°)   | 2559.6 | 15.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 33.5   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1044.5 | 6.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 4893.4 | 28.7      | B3/5000                 |      |         |
| BH (60°-80°)   | 2559.6 | 15.0      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 33.5   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2030.5 | 2030.5 | 2030.5 | 2030.5 | 2030.5 | 2030.5 | 2030.5 | 2030.5 | 2030.5 | 2030.5 |
| 2.5°  | 2044.2 | 2037.4 | 2042.5 | 2038.3 | 2034.8 | 2031.4 | 2033.1 | 2039.1 | 2041.7 | 2042.5 |
| 5°    | 2071.6 | 2065.6 | 2068.2 | 2068.2 | 2062.2 | 2060.5 | 2061.4 | 2065.6 | 2070.8 | 2070.8 |
| 7.5°  | 2116.2 | 2110.2 | 2116.2 | 2112.7 | 2107.6 | 2105.9 | 2105.0 | 2108.4 | 2116.2 | 2116.2 |
| 10°   | 2170.1 | 2163.2 | 2166.7 | 2164.9 | 2159.0 | 2156.4 | 2155.5 | 2160.7 | 2167.5 | 2166.7 |
| 12.5° | 2229.2 | 2221.4 | 2225.7 | 2220.6 | 2218.9 | 2216.3 | 2216.3 | 2215.5 | 2219.7 | 2216.3 |
| 15°   | 2295.1 | 2289.9 | 2291.6 | 2288.2 | 2290.8 | 2289.1 | 2282.2 | 2278.8 | 2280.5 | 2275.4 |
| 17.5° | 2373.0 | 2361.0 | 2367.0 | 2365.3 | 2365.3 | 2368.7 | 2357.6 | 2353.3 | 2356.7 | 2351.6 |
| 20°   | 2462.9 | 2450.9 | 2453.4 | 2450.0 | 2445.7 | 2449.2 | 2435.5 | 2438.9 | 2441.5 | 2438.0 |
| 22.5° | 2561.3 | 2545.9 | 2545.0 | 2546.7 | 2537.3 | 2538.2 | 2528.8 | 2537.3 | 2542.5 | 2533.0 |
| 25°   | 2662.3 | 2646.0 | 2657.2 | 2652.9 | 2640.9 | 2643.5 | 2636.6 | 2645.2 | 2649.5 | 2637.5 |
| 27.5° | 2769.3 | 2758.2 | 2768.5 | 2771.0 | 2756.5 | 2766.8 | 2756.5 | 2764.2 | 2768.5 | 2750.5 |
| 30°   | 2894.3 | 2883.2 | 2892.6 | 2899.4 | 2882.3 | 2898.6 | 2890.0 | 2895.2 | 2896.0 | 2874.6 |
| 32.5° | 3030.4 | 3013.3 | 3037.3 | 3040.7 | 3021.9 | 3041.5 | 3030.4 | 3037.3 | 3041.5 | 3012.4 |
| 35°   | 3196.5 | 3175.1 | 3202.5 | 3198.2 | 3181.9 | 3198.2 | 3187.9 | 3198.2 | 3208.5 | 3173.4 |
| 37.5° | 3375.4 | 3353.1 | 3382.3 | 3374.5 | 3359.1 | 3370.3 | 3364.3 | 3371.1 | 3387.4 | 3349.7 |
| 40°   | 3572.3 | 3544.9 | 3584.3 | 3570.6 | 3556.0 | 3554.3 | 3557.7 | 3562.0 | 3583.4 | 3541.5 |
| 42.5° | 3782.9 | 3753.8 | 3812.8 | 3791.4 | 3770.9 | 3757.2 | 3768.3 | 3776.9 | 3797.4 | 3750.4 |
| 45°   | 4023.4 | 3990.0 | 4067.1 | 4041.4 | 4008.9 | 3980.6 | 3998.6 | 4011.4 | 4041.4 | 3984.9 |
| 47.5° | 4288.8 | 4251.1 | 4333.3 | 4325.6 | 4272.5 | 4210.9 | 4252.0 | 4288.8 | 4311.1 | 4242.6 |
| 50°   | 4548.2 | 4519.1 | 4626.9 | 4636.4 | 4571.3 | 4484.8 | 4542.2 | 4597.8 | 4603.8 | 4513.9 |
| 52.5° | 4791.3 | 4762.2 | 4918.9 | 4977.9 | 4919.7 | 4817.0 | 4877.8 | 4934.3 | 4888.9 | 4772.5 |
| 55°   | 4985.6 | 4961.7 | 5161.1 | 5313.5 | 5333.2 | 5248.4 | 5284.4 | 5282.7 | 5133.7 | 4954.8 |
| 57.5° | 5032.7 | 5029.3 | 5281.0 | 5603.7 | 5809.1 | 5819.4 | 5748.4 | 5566.9 | 5245.9 | 5005.3 |
| 60°   | 4818.7 | 4840.1 | 5185.9 | 5755.2 | 6303.1 | 6530.8 | 6223.5 | 5705.6 | 5118.3 | 4784.5 |
| 62.5° | 4178.4 | 4234.9 | 4651.8 | 5570.3 | 6702.0 | 7349.2 | 6604.4 | 5495.0 | 4594.4 | 4158.7 |
| 65°   | 2994.5 | 3092.9 | 3553.5 | 4753.6 | 6666.1 | 8068.3 | 6549.6 | 4715.1 | 3587.7 | 3085.2 |
| 67.5° | 1358.6 | 1458.7 | 1849.9 | 3254.7 | 5794.6 | 7873.1 | 5780.9 | 3288.9 | 1942.4 | 1463.8 |
| 70°   | 492.2  | 509.3  | 635.2  | 1302.9 | 3703.3 | 6273.1 | 3861.6 | 1312.3 | 675.4  | 542.7  |
| 72.5° | 297.9  | 300.5  | 327.0  | 466.5  | 1286.6 | 3808.6 | 1341.4 | 482.0  | 333.9  | 296.2  |
| 75°   | 189.2  | 187.5  | 232.8  | 285.1  | 456.3  | 1284.9 | 478.5  | 285.1  | 232.0  | 211.4  |
| 77.5° | 136.1  | 140.4  | 166.9  | 213.2  | 287.6  | 435.7  | 282.5  | 203.7  | 166.9  | 137.0  |
| 80°   | 101.9  | 104.4  | 121.6  | 166.1  | 202.0  | 271.4  | 179.8  | 150.7  | 125.8  | 85.6   |
| 82.5° | 73.6   | 73.6   | 79.6   | 120.7  | 123.3  | 146.4  | 97.6   | 106.2  | 83.0   | 60.8   |
| 85°   | 43.7   | 42.8   | 49.7   | 71.9   | 64.2   | 53.9   | 44.5   | 65.1   | 52.2   | 37.7   |
| 87.5° | 15.4   | 16.3   | 15.4   | 20.5   | 17.1   | 14.6   | 13.7   | 18.0   | 14.6   | 12.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END C

| 90°    |
|--------|
| 2030.5 |
| 2042.5 |
| 2070.8 |
| 2113.6 |
| 2164.9 |
| 2218.0 |
| 2276.2 |
| 2355.8 |
| 2445.7 |
| 2542.5 |
| 2651.2 |
| 2764.2 |
| 2887.5 |
| 3032.1 |
| 3194.8 |
| 3372.8 |
| 3555.2 |
| 3775.2 |
| 4014.0 |
| 4265.7 |
| 4525.1 |
| 4775.9 |
| 4960.8 |
| 4989.9 |
| 4745.1 |
| 4133.0 |
| 3048.4 |
| 1442.4 |
| 535.9  |
| 301.3  |
| 213.2  |
| 139.5  |
| 88.2   |
| 60.8   |
| 36.8   |
| 12.0   |
| 0.0    |

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