

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: P944520

Luminaire Tested: **GALN-SB9C-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

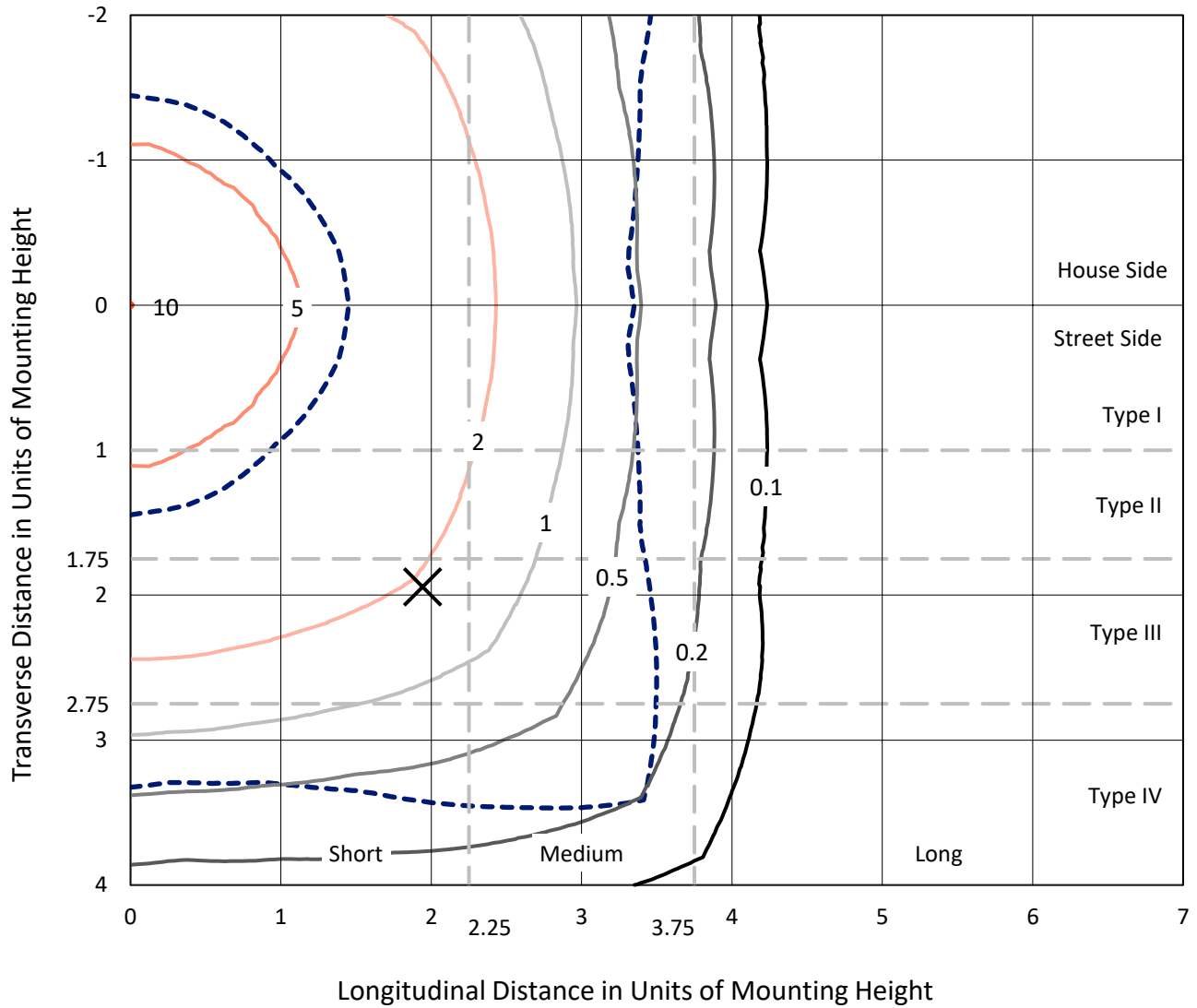
Lumens per Lamp: N/A  
Luminaire Lumens: 68998 lumens  
Efficiency: N/A  
Efficacy: 153.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

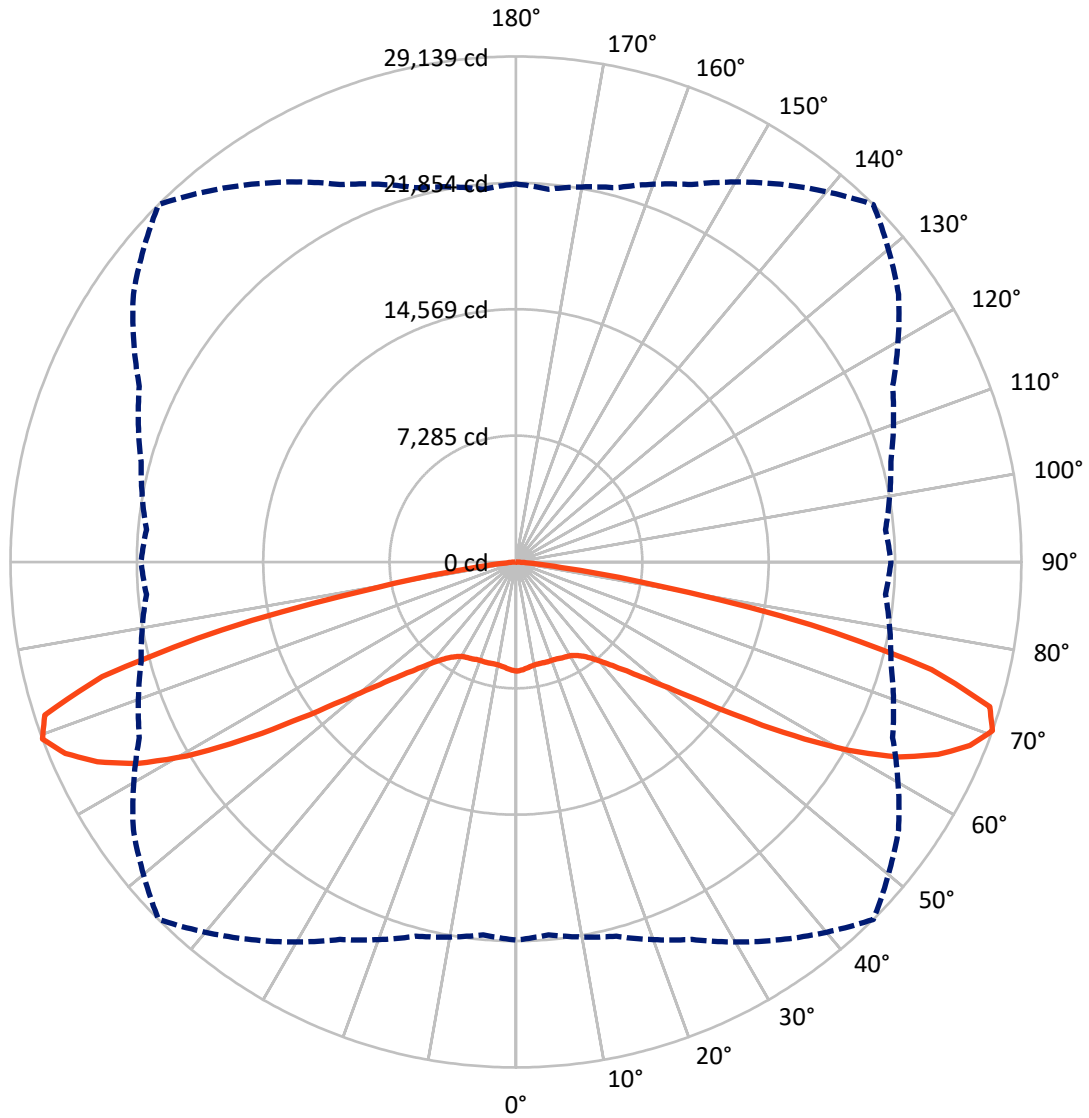
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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    | 34499.0  | 0.0    | 34499.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 34499.0  | 0.0    | 34499.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 68998.0  | 0.0    | 68998.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 585.5   | 0.8       |
| 10°-20°   | 1719.1  | 2.5       |
| 20°-30°   | 2860.9  | 4.1       |
| 30°-40°   | 4326.6  | 6.3       |
| 40°-50°   | 7189.7  | 10.4      |
| 50°-60°   | 13566.7 | 19.7      |
| 60°-70°   | 22908.0 | 33.2      |
| 70°-80°   | 15052.9 | 21.8      |
| 80°-90°   | 788.6   | 1.1       |
| 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°    | 68998.0 | 100.0     |
| 0°-180°   | 68998.0 | 100.0     |

**Coefficient of Utilization**



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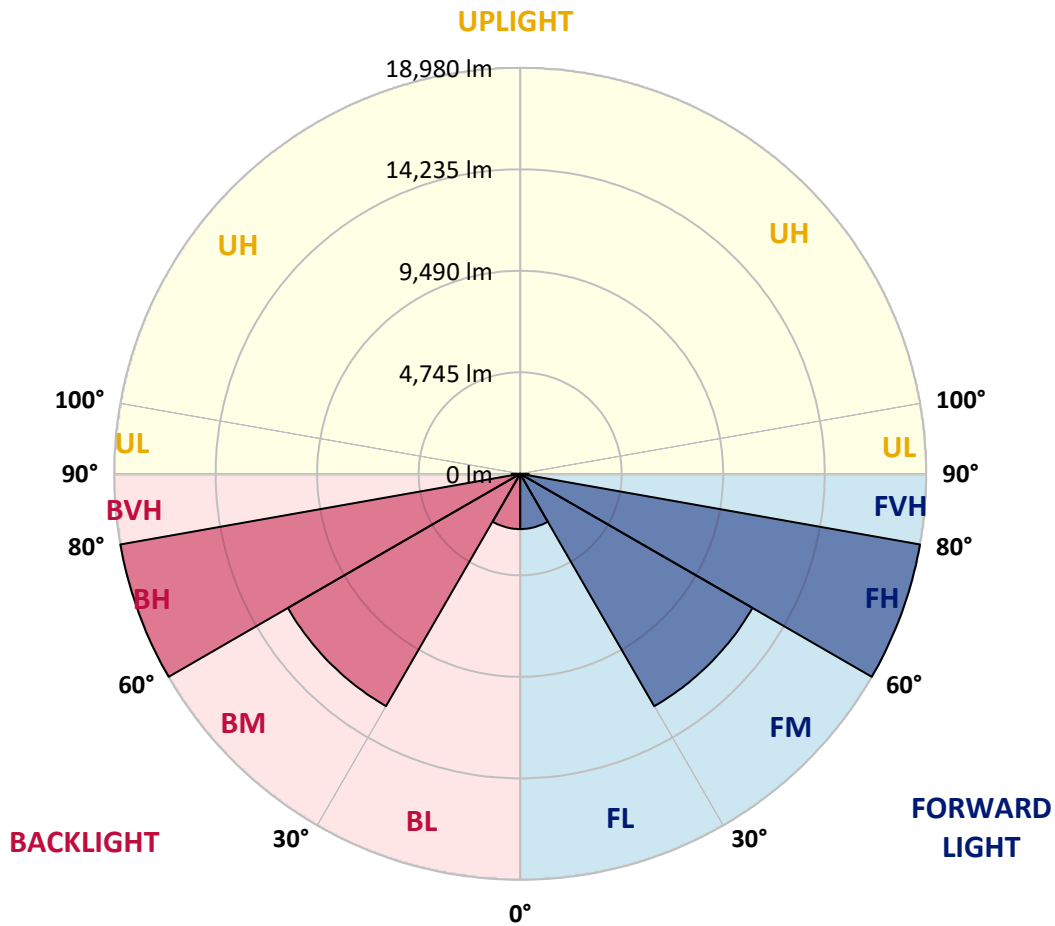
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 2582.8  | 3.7       |                         |      |        |
| FM (30°-60°)   | 12541.5 | 18.2      |                         |      |        |
| FH (60°-80°)   | 18980.4 | 27.5      |                         |      | G5     |
| FVH (80°-90°)  | 394.3   | 0.6       |                         |      | G3/500 |
| BL (0°-30°)    | 2582.8  | 3.7       | B4/5000                 |      |        |
| BM (30°-60°)   | 12541.5 | 18.2      | B5                      |      |        |
| BH (60°-80°)   | 18980.4 | 27.5      | B5                      |      | G5     |
| BVH (80°-90°)  | 394.3   | 0.6       |                         |      | 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°    | 6294.0  | 6294.0  | 6294.0  | 6294.0  | 6294.0  | 6294.0  | 6294.0  | 6294.0  | 6294.0  | 6294.0  |
| 2.5°  | 6254.6  | 6272.5  | 6265.3  | 6251.0  | 6251.0  | 6240.2  | 6251.0  | 6258.1  | 6268.9  | 6276.1  |
| 5°    | 6172.1  | 6186.4  | 6182.8  | 6172.1  | 6175.7  | 6164.9  | 6172.1  | 6182.8  | 6190.0  | 6193.6  |
| 7.5°  | 6100.3  | 6114.7  | 6107.5  | 6089.6  | 6089.6  | 6078.8  | 6082.4  | 6093.2  | 6103.9  | 6107.5  |
| 10°   | 6082.4  | 6096.8  | 6075.2  | 6046.6  | 6035.8  | 6021.4  | 6025.0  | 6035.8  | 6057.3  | 6068.1  |
| 12.5° | 6089.6  | 6100.3  | 6078.8  | 6035.8  | 6025.0  | 6010.7  | 6010.7  | 6021.4  | 6050.1  | 6064.5  |
| 15°   | 6111.1  | 6121.9  | 6089.6  | 6043.0  | 6032.2  | 6021.4  | 6017.9  | 6032.2  | 6064.5  | 6089.6  |
| 17.5° | 6150.6  | 6161.3  | 6111.1  | 6046.6  | 6032.2  | 6035.8  | 6032.2  | 6043.0  | 6093.2  | 6139.8  |
| 20°   | 6186.4  | 6193.6  | 6125.4  | 6046.6  | 6032.2  | 6035.8  | 6032.2  | 6053.7  | 6118.3  | 6182.8  |
| 22.5° | 6197.2  | 6204.3  | 6139.8  | 6071.7  | 6060.9  | 6064.5  | 6060.9  | 6082.4  | 6143.4  | 6207.9  |
| 25°   | 6200.8  | 6211.5  | 6161.3  | 6107.5  | 6125.4  | 6132.6  | 6125.4  | 6129.0  | 6175.7  | 6233.0  |
| 27.5° | 6254.6  | 6268.9  | 6222.3  | 6175.7  | 6186.4  | 6182.8  | 6193.6  | 6204.3  | 6240.2  | 6297.6  |
| 30°   | 6365.7  | 6376.5  | 6337.0  | 6290.4  | 6283.2  | 6258.1  | 6290.4  | 6326.3  | 6365.7  | 6415.9  |
| 32.5° | 6548.6  | 6570.2  | 6519.9  | 6469.7  | 6437.5  | 6423.1  | 6448.2  | 6509.2  | 6563.0  | 6616.8  |
| 35°   | 6853.5  | 6867.8  | 6821.2  | 6728.0  | 6670.6  | 6670.6  | 6692.1  | 6771.0  | 6857.1  | 6925.2  |
| 37.5° | 7283.8  | 7301.8  | 7219.3  | 7108.1  | 7022.0  | 7022.0  | 7050.7  | 7133.2  | 7262.3  | 7359.1  |
| 40°   | 7807.4  | 7832.5  | 7728.5  | 7613.8  | 7531.3  | 7516.9  | 7552.8  | 7646.1  | 7768.0  | 7889.9  |
| 42.5° | 8438.6  | 8467.3  | 8331.0  | 8230.6  | 8166.1  | 8166.1  | 8184.0  | 8270.1  | 8381.3  | 8531.9  |
| 45°   | 9245.6  | 9295.8  | 9109.3  | 9008.9  | 8947.9  | 8962.2  | 8973.0  | 9048.3  | 9148.7  | 9320.9  |
| 47.5° | 10206.7 | 10256.9 | 10059.7 | 9955.6  | 9944.9  | 10013.0 | 9970.0  | 10023.8 | 10077.6 | 10274.8 |
| 50°   | 11296.9 | 11383.0 | 11246.7 | 11239.6 | 11261.1 | 11386.6 | 11286.2 | 11314.9 | 11253.9 | 11379.4 |
| 52.5° | 12631.0 | 12756.6 | 12731.5 | 12774.5 | 13014.8 | 13273.0 | 13043.5 | 12943.1 | 12713.5 | 12753.0 |
| 55°   | 14248.5 | 14438.6 | 14474.4 | 14732.6 | 15277.8 | 15805.0 | 15317.2 | 14912.0 | 14424.2 | 14334.6 |
| 57.5° | 16088.3 | 16238.9 | 16411.0 | 16938.2 | 17956.7 | 18892.8 | 17956.7 | 17060.2 | 16292.7 | 16109.8 |
| 60°   | 18067.9 | 18254.4 | 18419.4 | 19197.6 | 20711.0 | 22027.2 | 20682.4 | 19258.6 | 18243.7 | 17996.2 |
| 62.5° | 20194.6 | 20434.9 | 20549.7 | 21414.0 | 23178.4 | 24749.3 | 23203.5 | 21478.5 | 20352.4 | 20087.0 |
| 65°   | 22235.2 | 22432.5 | 22561.6 | 23483.3 | 25168.9 | 26743.3 | 25283.6 | 23583.7 | 22425.3 | 22077.4 |
| 67.5° | 23185.6 | 23293.2 | 23608.8 | 24652.4 | 26431.2 | 28228.0 | 26732.5 | 24763.6 | 23468.9 | 22859.3 |
| 70°   | 21794.1 | 21575.4 | 22335.7 | 24006.9 | 26581.9 | 29138.9 | 26926.2 | 23956.7 | 22371.5 | 21381.7 |
| 72.5° | 16841.4 | 16464.8 | 17784.6 | 20642.9 | 24860.4 | 28557.9 | 25032.6 | 20804.3 | 18605.9 | 16597.5 |
| 75°   | 9163.1  | 8736.3  | 10558.2 | 14173.2 | 19825.2 | 24752.8 | 20280.7 | 14578.4 | 11756.0 | 9094.9  |
| 77.5° | 2585.7  | 2424.4  | 3894.8  | 6857.1  | 11924.5 | 17379.3 | 12383.6 | 7007.7  | 4619.2  | 2740.0  |
| 80°   | 792.6   | 767.5   | 1040.0  | 2065.7  | 5063.9  | 8323.9  | 4866.6  | 2090.8  | 1323.4  | 835.6   |
| 82.5° | 469.8   | 430.4   | 516.4   | 753.1   | 1291.1  | 2614.4  | 1255.2  | 785.4   | 631.2   | 423.2   |
| 85°   | 269.0   | 251.0   | 304.8   | 365.8   | 433.9   | 555.9   | 362.2   | 373.0   | 337.1   | 225.9   |
| 87.5° | 111.2   | 100.4   | 118.3   | 114.8   | 100.4   | 129.1   | 96.8    | 114.8   | 136.3   | 89.7    |
| 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°     |
|---------|
| 6294.0  |
| 6272.5  |
| 6193.6  |
| 6107.5  |
| 6068.1  |
| 6068.1  |
| 6093.2  |
| 6139.8  |
| 6186.4  |
| 6207.9  |
| 6229.5  |
| 6283.2  |
| 6405.2  |
| 6595.3  |
| 6900.1  |
| 7323.3  |
| 7850.5  |
| 8521.1  |
| 9313.7  |
| 10217.5 |
| 11304.1 |
| 12620.3 |
| 14194.7 |
| 15980.7 |
| 17781.0 |
| 19871.8 |
| 21905.3 |
| 22866.4 |
| 21618.4 |
| 17096.0 |
| 9686.7  |
| 3044.8  |
| 882.2   |
| 459.1   |
| 236.7   |
| 82.5    |
| 0.0     |

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