

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: P943180

Luminaire Tested: **GALN-SB7C-750-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943180  
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-SB7C-750-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

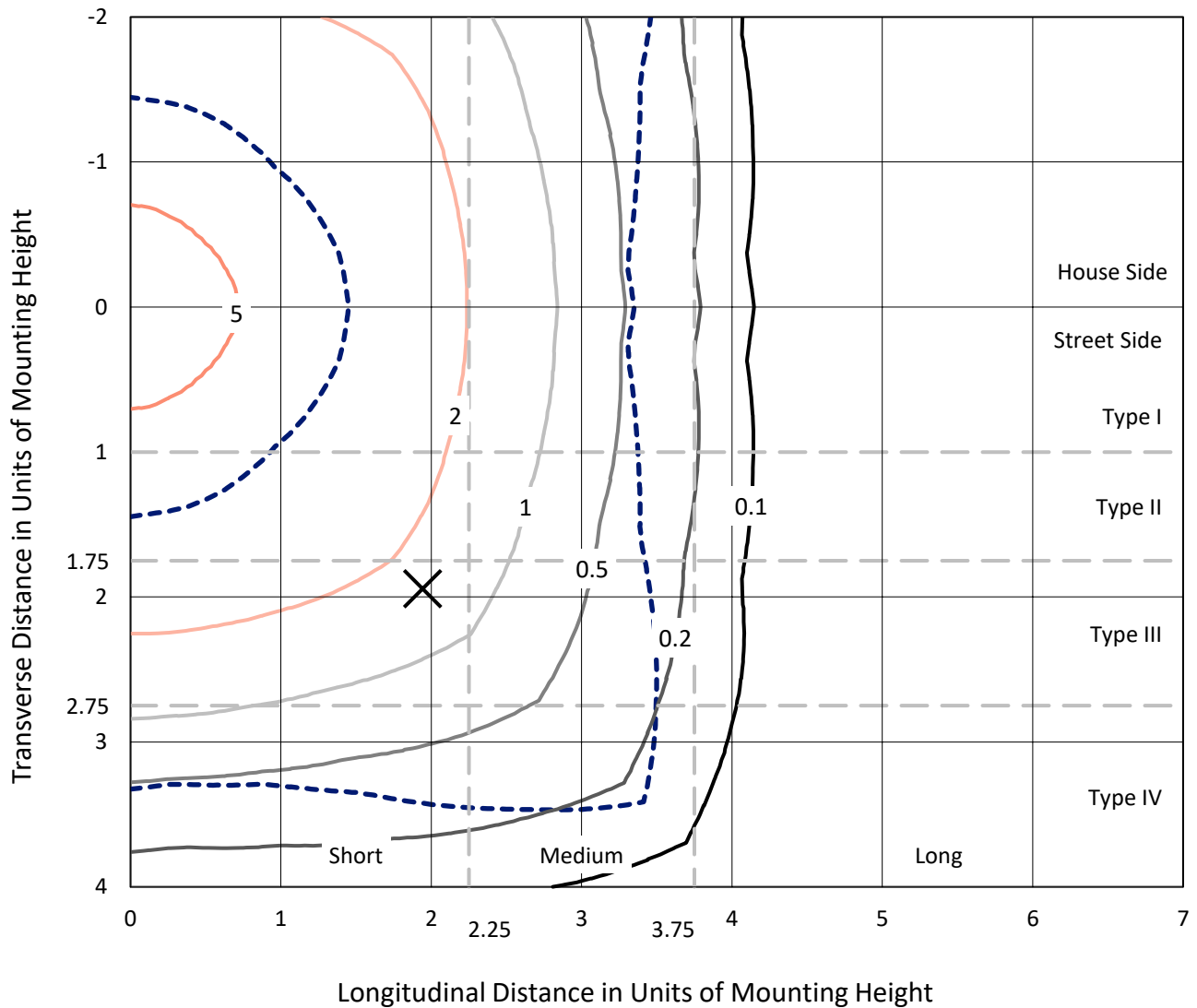
Lumens per Lamp: N/A  
Luminaire Lumens: 56996 lumens  
Efficiency: N/A  
Efficacy: 162.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

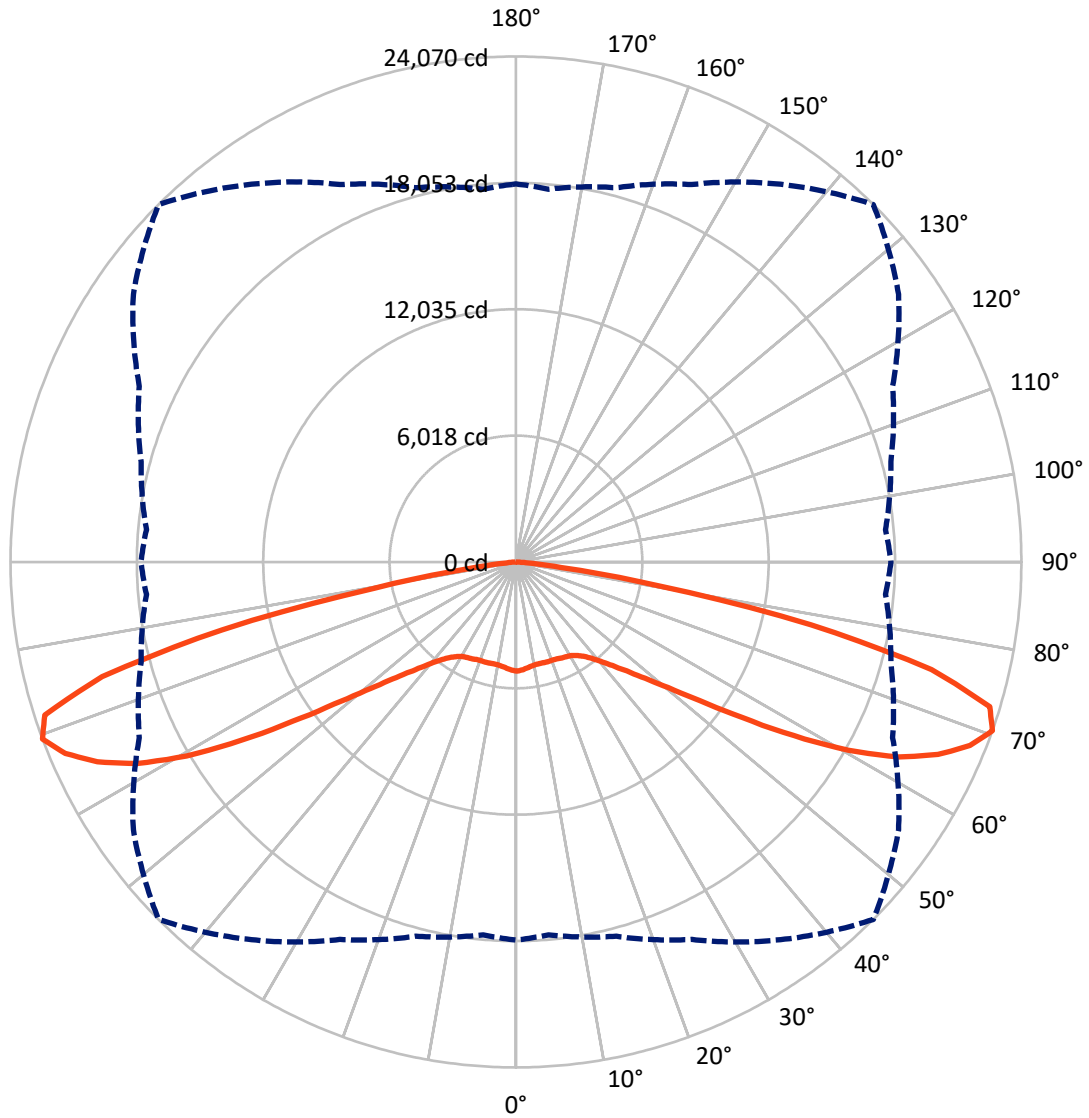
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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    | 28498.0  | 0.0    | 28498.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 28498.0  | 0.0    | 28498.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 56996.0  | 0.0    | 56996.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 483.6   | 0.8       |
| 10°-20°   | 1420.1  | 2.5       |
| 20°-30°   | 2363.3  | 4.1       |
| 30°-40°   | 3574.0  | 6.3       |
| 40°-50°   | 5939.1  | 10.4      |
| 50°-60°   | 11206.8 | 19.7      |
| 60°-70°   | 18923.2 | 33.2      |
| 70°-80°   | 12434.5 | 21.8      |
| 80°-90°   | 651.4   | 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°    | 56996.0 | 100.0     |
| 0°-180°   | 56996.0 | 100.0     |

**Coefficient of Utilization**



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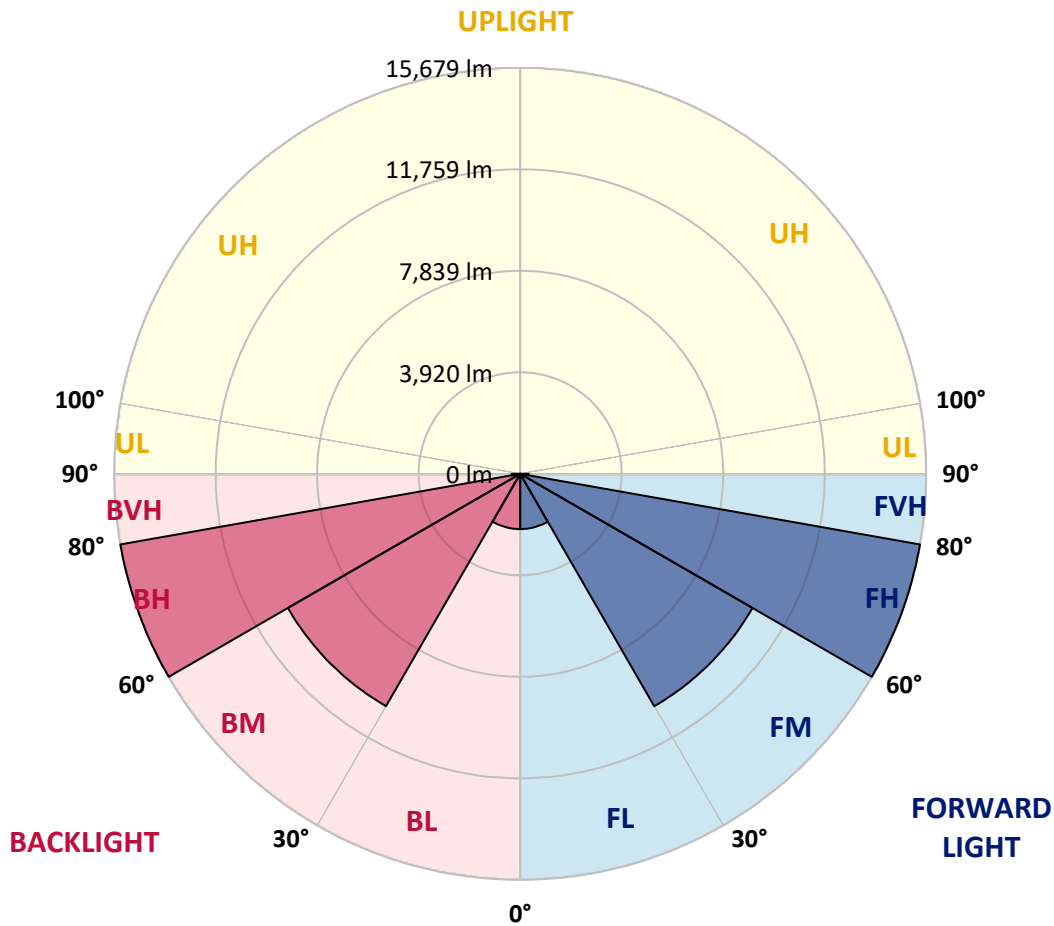
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 2133.5  | 3.7       |                         |      |        |
| FM (30°-60°)   | 10359.9 | 18.2      |                         |      |        |
| FH (60°-80°)   | 15678.8 | 27.5      |                         |      | G5     |
| FVH (80°-90°)  | 325.7   | 0.6       |                         |      | G3/500 |
| BL (0°-30°)    | 2133.5  | 3.7       | B3/2500                 |      |        |
| BM (30°-60°)   | 10359.9 | 18.2      | B5                      |      |        |
| BH (60°-80°)   | 15678.8 | 27.5      | B5                      |      | G5     |
| BVH (80°-90°)  | 325.7   | 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°    | 5199.2  | 5199.2  | 5199.2  | 5199.2  | 5199.2  | 5199.2  | 5199.2  | 5199.2  | 5199.2  | 5199.2  |
| 2.5°  | 5166.6  | 5181.4  | 5175.5  | 5163.6  | 5163.6  | 5154.7  | 5163.6  | 5169.6  | 5178.4  | 5184.4  |
| 5°    | 5098.5  | 5110.3  | 5107.3  | 5098.5  | 5101.4  | 5092.5  | 5098.5  | 5107.3  | 5113.3  | 5116.2  |
| 7.5°  | 5039.2  | 5051.1  | 5045.1  | 5030.3  | 5030.3  | 5021.4  | 5024.4  | 5033.3  | 5042.2  | 5045.1  |
| 10°   | 5024.4  | 5036.2  | 5018.5  | 4994.8  | 4985.9  | 4974.0  | 4977.0  | 4985.9  | 5003.7  | 5012.5  |
| 12.5° | 5030.3  | 5039.2  | 5021.4  | 4985.9  | 4977.0  | 4965.1  | 4965.1  | 4974.0  | 4997.7  | 5009.6  |
| 15°   | 5048.1  | 5057.0  | 5030.3  | 4991.8  | 4982.9  | 4974.0  | 4971.1  | 4982.9  | 5009.6  | 5030.3  |
| 17.5° | 5080.7  | 5089.6  | 5048.1  | 4994.8  | 4982.9  | 4985.9  | 4982.9  | 4991.8  | 5033.3  | 5071.8  |
| 20°   | 5110.3  | 5116.2  | 5059.9  | 4994.8  | 4982.9  | 4985.9  | 4982.9  | 5000.7  | 5054.0  | 5107.3  |
| 22.5° | 5119.2  | 5125.1  | 5071.8  | 5015.5  | 5006.6  | 5009.6  | 5006.6  | 5024.4  | 5074.8  | 5128.1  |
| 25°   | 5122.2  | 5131.0  | 5089.6  | 5045.1  | 5059.9  | 5065.9  | 5059.9  | 5062.9  | 5101.4  | 5148.8  |
| 27.5° | 5166.6  | 5178.4  | 5139.9  | 5101.4  | 5110.3  | 5107.3  | 5116.2  | 5125.1  | 5154.7  | 5202.1  |
| 30°   | 5258.4  | 5267.3  | 5234.7  | 5196.2  | 5190.3  | 5169.6  | 5196.2  | 5225.8  | 5258.4  | 5299.9  |
| 32.5° | 5409.5  | 5427.3  | 5385.8  | 5344.3  | 5317.7  | 5305.8  | 5326.6  | 5376.9  | 5421.4  | 5465.8  |
| 35°   | 5661.3  | 5673.2  | 5634.7  | 5557.6  | 5510.2  | 5510.2  | 5528.0  | 5593.2  | 5664.3  | 5720.6  |
| 37.5° | 6016.8  | 6031.6  | 5963.5  | 5871.7  | 5800.6  | 5800.6  | 5824.3  | 5892.4  | 5999.1  | 6079.0  |
| 40°   | 6449.4  | 6470.1  | 6384.2  | 6289.4  | 6221.2  | 6209.4  | 6239.0  | 6316.0  | 6416.8  | 6517.5  |
| 42.5° | 6970.8  | 6994.5  | 6881.9  | 6798.9  | 6745.6  | 6745.6  | 6760.4  | 6831.5  | 6923.4  | 7047.8  |
| 45°   | 7637.3  | 7678.8  | 7524.7  | 7441.8  | 7391.4  | 7403.3  | 7412.2  | 7474.4  | 7557.3  | 7699.5  |
| 47.5° | 8431.3  | 8472.7  | 8309.8  | 8223.9  | 8215.0  | 8271.3  | 8235.7  | 8280.2  | 8324.6  | 8487.6  |
| 50°   | 9331.9  | 9403.0  | 9290.4  | 9284.5  | 9302.2  | 9405.9  | 9323.0  | 9346.7  | 9296.3  | 9400.0  |
| 52.5° | 10433.9 | 10537.6 | 10516.9 | 10552.4 | 10750.9 | 10964.2 | 10774.6 | 10691.7 | 10502.1 | 10534.6 |
| 55°   | 11770.0 | 11927.0 | 11956.6 | 12169.9 | 12620.2 | 13055.7 | 12652.8 | 12318.1 | 11915.2 | 11841.1 |
| 57.5° | 13289.8 | 13414.2 | 13556.4 | 13991.9 | 14833.2 | 15606.4 | 14833.2 | 14092.6 | 13458.6 | 13307.5 |
| 60°   | 14925.1 | 15079.1 | 15215.4 | 15858.2 | 17108.4 | 18195.7 | 17084.7 | 15908.6 | 15070.2 | 14865.8 |
| 62.5° | 16681.8 | 16880.3 | 16975.1 | 17689.1 | 19146.6 | 20444.2 | 19167.4 | 17742.4 | 16812.2 | 16592.9 |
| 65°   | 18367.5 | 18530.4 | 18637.1 | 19398.4 | 20790.8 | 22091.3 | 20885.6 | 19481.4 | 18524.5 | 18237.1 |
| 67.5° | 19152.5 | 19241.4 | 19502.1 | 20364.2 | 21833.6 | 23317.8 | 22082.5 | 20456.0 | 19386.6 | 18883.0 |
| 70°   | 18003.1 | 17822.4 | 18450.4 | 19831.0 | 21958.0 | 24070.3 | 22242.4 | 19789.5 | 18480.1 | 17662.4 |
| 72.5° | 13911.9 | 13600.8 | 14691.0 | 17052.1 | 20536.0 | 23590.4 | 20678.2 | 17185.4 | 15369.4 | 13710.4 |
| 75°   | 7569.2  | 7216.6  | 8721.6  | 11707.8 | 16376.7 | 20447.2 | 16752.9 | 12042.6 | 9711.1  | 7512.9  |
| 77.5° | 2136.0  | 2002.6  | 3217.3  | 5664.3  | 9850.3  | 14356.3 | 10229.5 | 5788.7  | 3815.7  | 2263.3  |
| 80°   | 654.7   | 634.0   | 859.1   | 1706.4  | 4183.0  | 6876.0  | 4020.1  | 1727.1  | 1093.2  | 690.3   |
| 82.5° | 388.1   | 355.5   | 426.6   | 622.1   | 1066.5  | 2159.7  | 1036.9  | 648.8   | 521.4   | 349.6   |
| 85°   | 222.2   | 207.4   | 251.8   | 302.2   | 358.5   | 459.2   | 299.2   | 308.1   | 278.5   | 186.6   |
| 87.5° | 91.8    | 82.9    | 97.8    | 94.8    | 82.9    | 106.6   | 80.0    | 94.8    | 112.6   | 74.1    |
| 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°     |
|---------|
| 5199.2  |
| 5181.4  |
| 5116.2  |
| 5045.1  |
| 5012.5  |
| 5012.5  |
| 5033.3  |
| 5071.8  |
| 5110.3  |
| 5128.1  |
| 5145.9  |
| 5190.3  |
| 5291.0  |
| 5448.0  |
| 5699.8  |
| 6049.4  |
| 6484.9  |
| 7038.9  |
| 7693.6  |
| 8440.2  |
| 9337.8  |
| 10425.0 |
| 11725.6 |
| 13200.9 |
| 14688.1 |
| 16415.2 |
| 18094.9 |
| 18888.9 |
| 17857.9 |
| 14122.2 |
| 8001.7  |
| 2515.2  |
| 728.8   |
| 379.2   |
| 195.5   |
| 68.1    |
| 0.0     |

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