

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: P942560

Luminaire Tested: **GALN-SB6C-850-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942560  
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-SB6C-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

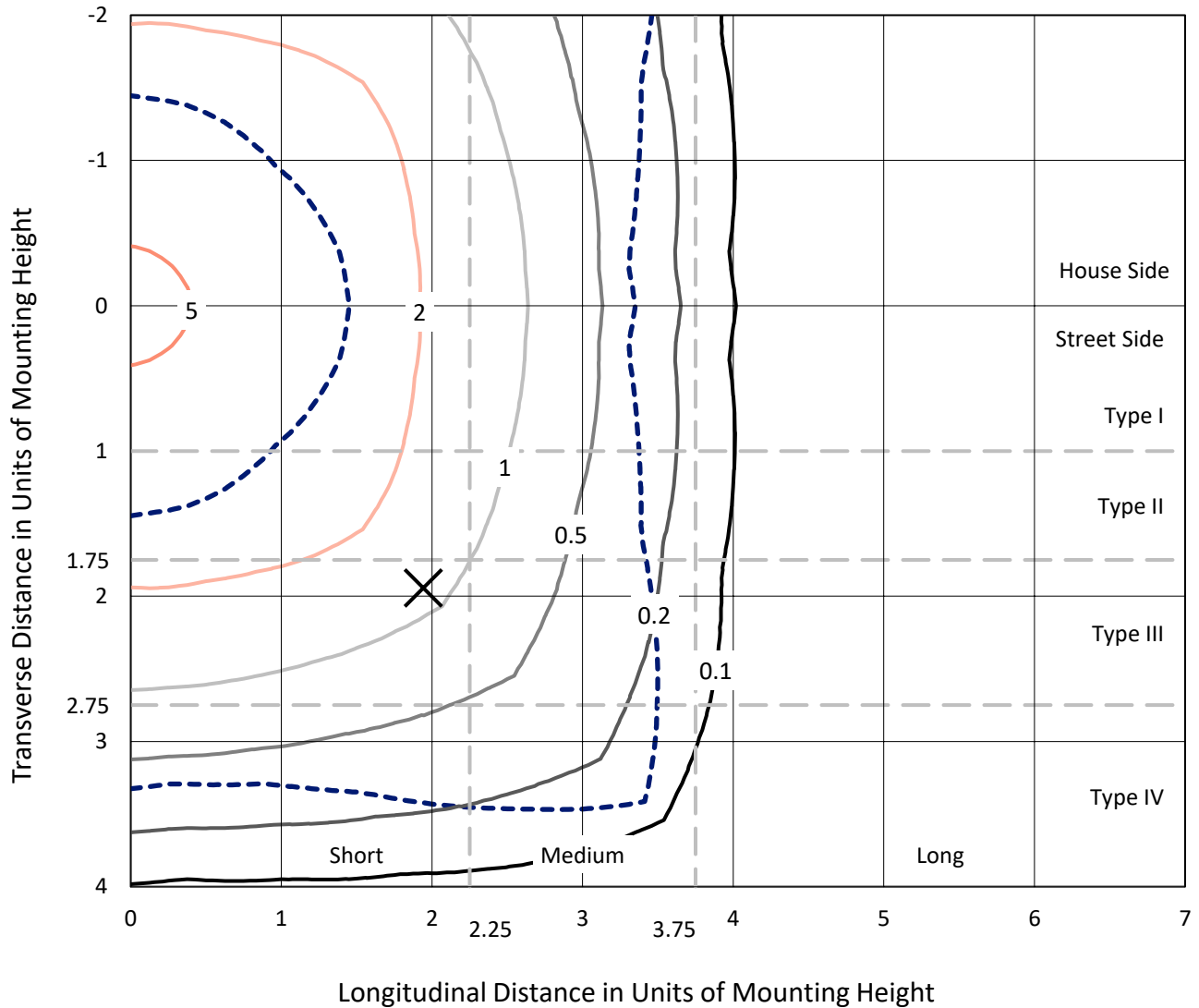
Lumens per Lamp: N/A  
Luminaire Lumens: 43940 lumens  
Efficiency: N/A  
Efficacy: 146.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

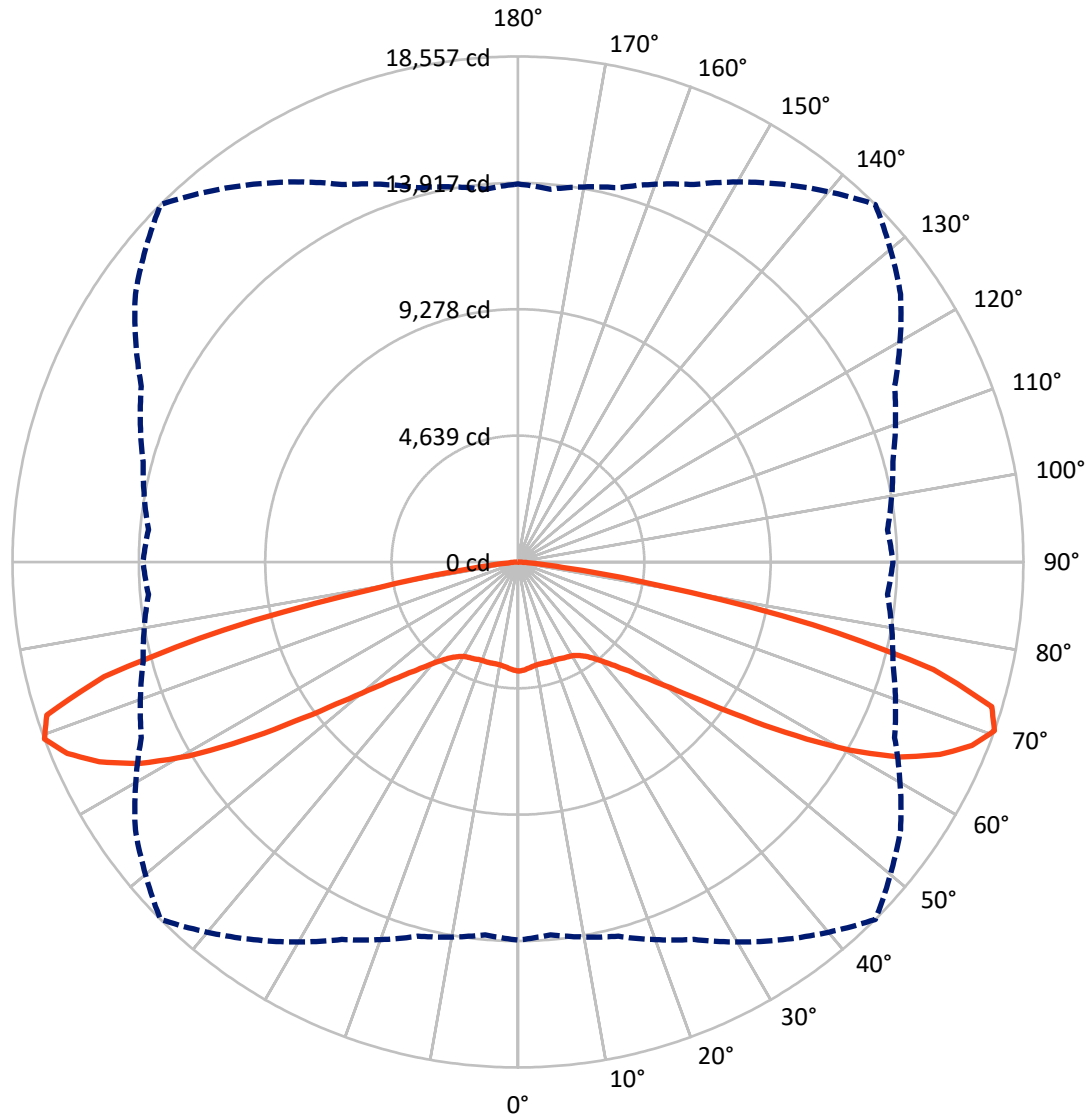
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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    | 21970.0  | 0.0    | 21970.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 21970.0  | 0.0    | 21970.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 43940.0  | 0.0    | 43940.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 372.9   | 0.8       |
| 10°-20°   | 1094.8  | 2.5       |
| 20°-30°   | 1821.9  | 4.1       |
| 30°-40°   | 2755.3  | 6.3       |
| 40°-50°   | 4578.6  | 10.4      |
| 50°-60°   | 8639.7  | 19.7      |
| 60°-70°   | 14588.5 | 33.2      |
| 70°-80°   | 9586.1  | 21.8      |
| 80°-90°   | 502.2   | 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°    | 43940.0 | 100.0     |
| 0°-180°   | 43940.0 | 100.0     |

**Coefficient of Utilization**



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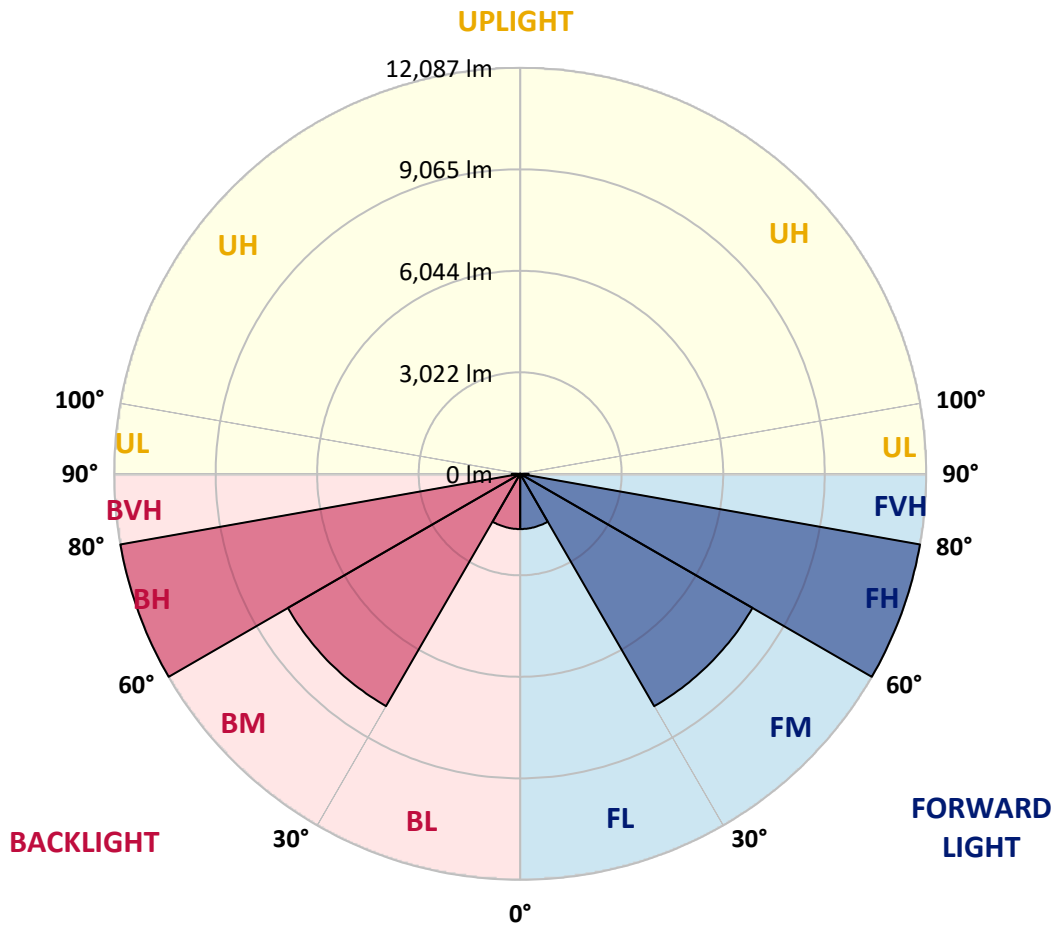
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 1644.8  | 3.7       |                         |      |        |
| FM (30°-60°)   | 7986.8  | 18.2      |                         |      |        |
| FH (60°-80°)   | 12087.3 | 27.5      |                         |      | G5     |
| FVH (80°-90°)  | 251.1   | 0.6       |                         |      | G3/500 |
| BL (0°-30°)    | 1644.8  | 3.7       | B3/2500                 |      |        |
| BM (30°-60°)   | 7986.8  | 18.2      | B4/8500                 |      |        |
| BH (60°-80°)   | 12087.3 | 27.5      | B5                      |      | G5     |
| BVH (80°-90°)  | 251.1   | 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°    | 4008.2  | 4008.2  | 4008.2  | 4008.2  | 4008.2  | 4008.2  | 4008.2  | 4008.2  | 4008.2  | 4008.2  |
| 2.5°  | 3983.1  | 3994.5  | 3989.9  | 3980.8  | 3980.8  | 3974.0  | 3980.8  | 3985.4  | 3992.2  | 3996.8  |
| 5°    | 3930.6  | 3939.7  | 3937.4  | 3930.6  | 3932.8  | 3926.0  | 3930.6  | 3937.4  | 3942.0  | 3944.3  |
| 7.5°  | 3884.9  | 3894.0  | 3889.5  | 3878.0  | 3878.0  | 3871.2  | 3873.5  | 3880.3  | 3887.2  | 3889.5  |
| 10°   | 3873.5  | 3882.6  | 3868.9  | 3850.6  | 3843.8  | 3834.6  | 3836.9  | 3843.8  | 3857.5  | 3864.3  |
| 12.5° | 3878.0  | 3884.9  | 3871.2  | 3843.8  | 3836.9  | 3827.8  | 3827.8  | 3834.6  | 3852.9  | 3862.0  |
| 15°   | 3891.7  | 3898.6  | 3878.0  | 3848.3  | 3841.5  | 3834.6  | 3832.4  | 3841.5  | 3862.0  | 3878.0  |
| 17.5° | 3916.9  | 3923.7  | 3891.7  | 3850.6  | 3841.5  | 3843.8  | 3841.5  | 3848.3  | 3880.3  | 3910.0  |
| 20°   | 3939.7  | 3944.3  | 3900.9  | 3850.6  | 3841.5  | 3843.8  | 3841.5  | 3855.2  | 3896.3  | 3937.4  |
| 22.5° | 3946.5  | 3951.1  | 3910.0  | 3866.6  | 3859.8  | 3862.0  | 3859.8  | 3873.5  | 3912.3  | 3953.4  |
| 25°   | 3948.8  | 3955.7  | 3923.7  | 3889.5  | 3900.9  | 3905.4  | 3900.9  | 3903.2  | 3932.8  | 3969.4  |
| 27.5° | 3983.1  | 3992.2  | 3962.5  | 3932.8  | 3939.7  | 3937.4  | 3944.3  | 3951.1  | 3974.0  | 4010.5  |
| 30°   | 4053.9  | 4060.7  | 4035.6  | 4005.9  | 4001.4  | 3985.4  | 4005.9  | 4028.8  | 4053.9  | 4085.9  |
| 32.5° | 4170.4  | 4184.1  | 4152.1  | 4120.1  | 4099.6  | 4090.4  | 4106.4  | 4145.2  | 4179.5  | 4213.8  |
| 35°   | 4364.5  | 4373.6  | 4343.9  | 4284.6  | 4248.0  | 4248.0  | 4261.7  | 4312.0  | 4366.8  | 4410.2  |
| 37.5° | 4638.6  | 4650.0  | 4597.5  | 4526.7  | 4471.8  | 4471.8  | 4490.1  | 4542.6  | 4624.9  | 4686.5  |
| 40°   | 4972.0  | 4988.0  | 4921.8  | 4848.7  | 4796.2  | 4787.0  | 4809.9  | 4869.2  | 4946.9  | 5024.5  |
| 42.5° | 5374.0  | 5392.2  | 5305.5  | 5241.5  | 5200.4  | 5200.4  | 5211.8  | 5266.6  | 5337.4  | 5433.4  |
| 45°   | 5887.8  | 5919.8  | 5801.1  | 5737.1  | 5698.3  | 5707.4  | 5714.3  | 5762.2  | 5826.2  | 5935.8  |
| 47.5° | 6499.9  | 6531.9  | 6406.3  | 6340.1  | 6333.2  | 6376.6  | 6349.2  | 6383.4  | 6417.7  | 6543.3  |
| 50°   | 7194.2  | 7249.0  | 7162.3  | 7157.7  | 7171.4  | 7251.3  | 7187.4  | 7205.6  | 7166.8  | 7246.8  |
| 52.5° | 8043.8  | 8123.8  | 8107.8  | 8135.2  | 8288.2  | 8452.6  | 8306.5  | 8242.5  | 8096.4  | 8121.5  |
| 55°   | 9073.9  | 9194.9  | 9217.7  | 9382.2  | 9729.3  | 10065.1 | 9754.5  | 9496.4  | 9185.8  | 9128.7  |
| 57.5° | 10245.5 | 10341.4 | 10451.0 | 10786.8 | 11435.4 | 12031.5 | 11435.4 | 10864.4 | 10375.7 | 10259.2 |
| 60°   | 11506.2 | 11625.0 | 11730.0 | 12225.6 | 13189.4 | 14027.6 | 13171.1 | 12264.4 | 11618.1 | 11460.5 |
| 62.5° | 12860.5 | 13013.6 | 13086.6 | 13637.1 | 14760.7 | 15761.1 | 14776.7 | 13678.2 | 12961.0 | 12792.0 |
| 65°   | 14160.1 | 14285.7 | 14367.9 | 14954.9 | 16028.3 | 17030.9 | 16101.4 | 15018.8 | 14281.1 | 14059.6 |
| 67.5° | 14765.3 | 14833.8 | 15034.8 | 15699.4 | 16832.2 | 17976.4 | 17024.1 | 15770.2 | 14945.7 | 14557.5 |
| 70°   | 13879.2 | 13739.8 | 14224.0 | 15288.3 | 16928.1 | 18556.5 | 17147.4 | 15256.3 | 14246.9 | 13616.5 |
| 72.5° | 10725.1 | 10485.3 | 11325.8 | 13146.0 | 15831.9 | 18186.6 | 15941.5 | 13248.8 | 11848.8 | 10569.8 |
| 75°   | 5835.3  | 5563.5  | 6723.7  | 9025.9  | 12625.3 | 15763.4 | 12915.4 | 9284.0  | 7486.6  | 5791.9  |
| 77.5° | 1646.7  | 1543.9  | 2480.3  | 4366.8  | 7593.9  | 11067.7 | 7886.2  | 4462.7  | 2941.6  | 1744.9  |
| 80°   | 504.7   | 488.8   | 662.3   | 1315.5  | 3224.8  | 5300.9  | 3099.2  | 1331.5  | 842.8   | 532.1   |
| 82.5° | 299.2   | 274.1   | 328.9   | 479.6   | 822.2   | 1664.9  | 799.4   | 500.2   | 402.0   | 269.5   |
| 85°   | 171.3   | 159.9   | 194.1   | 233.0   | 276.3   | 354.0   | 230.7   | 237.5   | 214.7   | 143.9   |
| 87.5° | 70.8    | 63.9    | 75.4    | 73.1    | 63.9    | 82.2    | 61.7    | 73.1    | 86.8    | 57.1    |
| 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°     |
|---------|
| 4008.2  |
| 3994.5  |
| 3944.3  |
| 3889.5  |
| 3864.3  |
| 3864.3  |
| 3880.3  |
| 3910.0  |
| 3939.7  |
| 3953.4  |
| 3967.1  |
| 4001.4  |
| 4079.0  |
| 4200.1  |
| 4394.2  |
| 4663.7  |
| 4999.4  |
| 5426.5  |
| 5931.2  |
| 6506.8  |
| 7198.8  |
| 8037.0  |
| 9039.6  |
| 10177.0 |
| 11323.5 |
| 12655.0 |
| 13950.0 |
| 14562.0 |
| 13767.2 |
| 10887.3 |
| 6168.8  |
| 1939.0  |
| 561.8   |
| 292.3   |
| 150.7   |
| 52.5    |
| 0.0     |

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