

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: P943390

Luminaire Tested: **GALN-SB7D-835-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943390
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-SB7D-835-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67897 lumens
Efficiency: N/A
Efficacy: 132.4 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

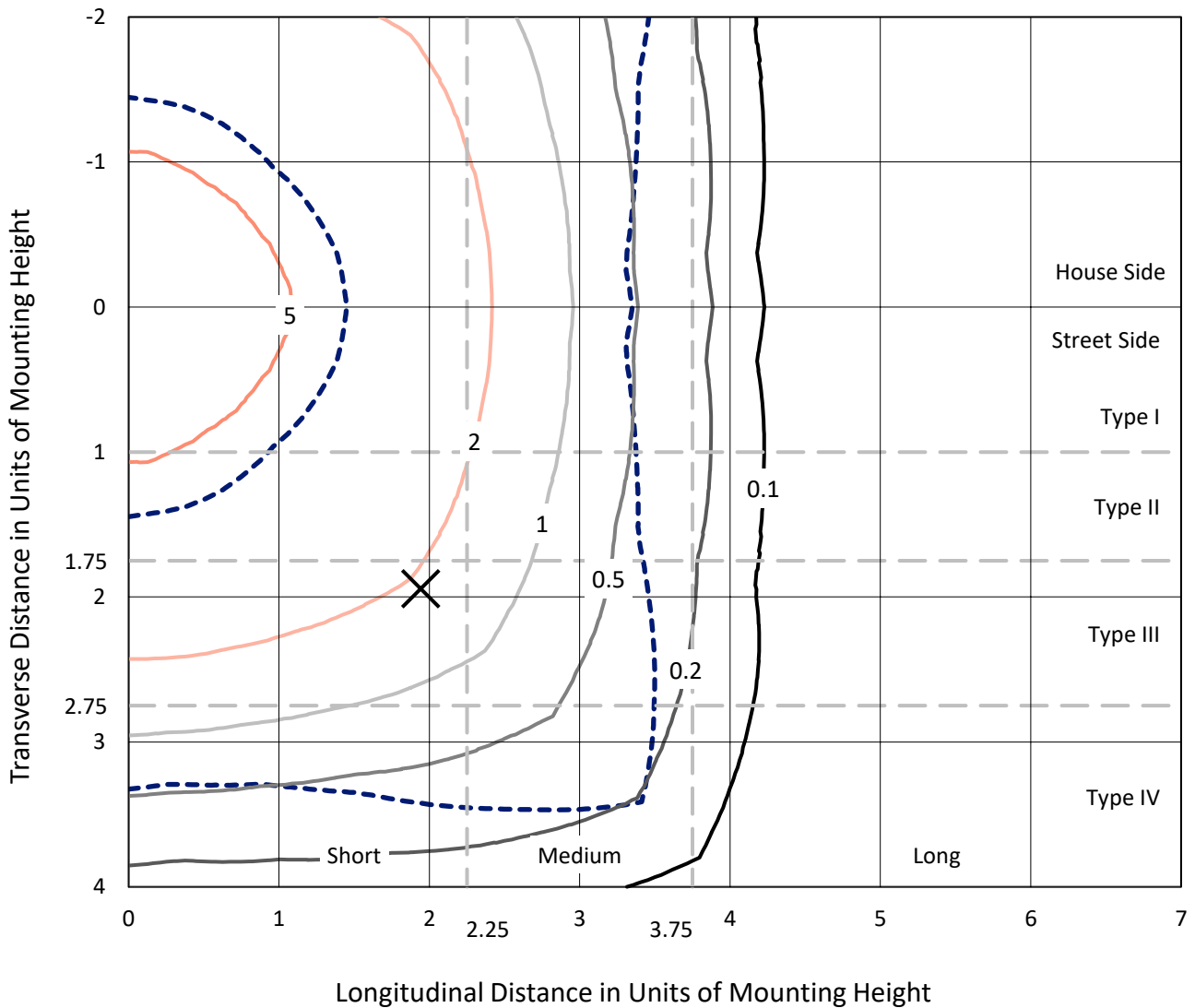
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

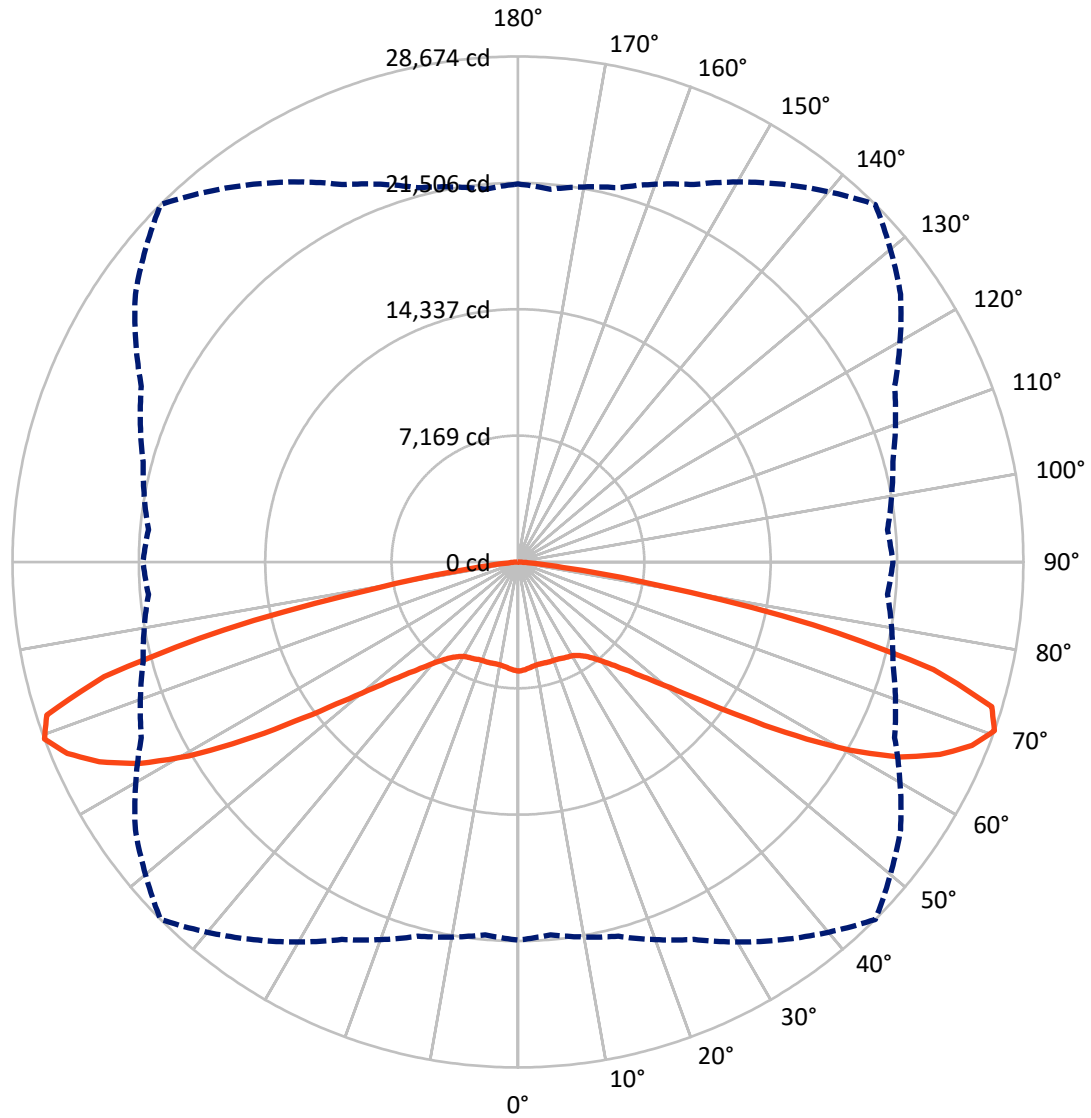
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 33948.5 | 0.0 | 33948.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 33948.5 | 0.0 | 33948.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 67897.0 | 0.0 | 67897.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 576.2 | 0.8 |
| 10°-20° | 1691.7 | 2.5 |
| 20°-30° | 2815.3 | 4.1 |
| 30°-40° | 4257.5 | 6.3 |
| 40°-50° | 7075.0 | 10.4 |
| 50°-60° | 13350.2 | 19.7 |
| 60°-70° | 22542.4 | 33.2 |
| 70°-80° | 14812.7 | 21.8 |
| 80°-90° | 776.0 | 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° | 67897.0 | 100.0 |
| 0°-180° | 67897.0 | 100.0 |



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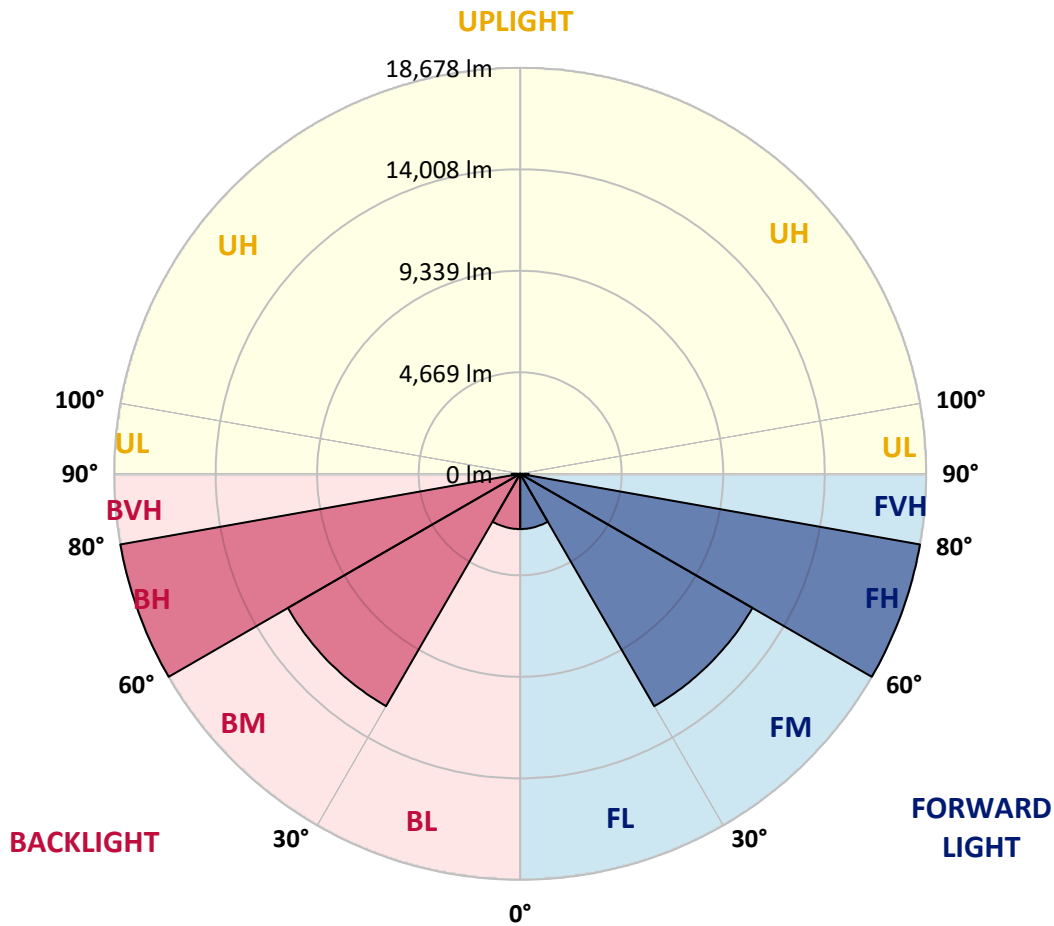
CATALOG NUMBER: GALN-SB7D-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2541.6 | 3.7 | | | |
| FM (30°-60°) | 12341.4 | 18.2 | | | |
| FH (60°-80°) | 18677.6 | 27.5 | | | G5 |
| FVH (80°-90°) | 388.0 | 0.6 | | | G3/500 |
| BL (0°-30°) | 2541.6 | 3.7 | B4/5000 | | |
| BM (30°-60°) | 12341.4 | 18.2 | B5 | | |
| BH (60°-80°) | 18677.6 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 388.0 | 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° | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 |
| 2.5° | 6154.8 | 6172.4 | 6165.3 | 6151.2 | 6151.2 | 6140.6 | 6151.2 | 6158.3 | 6168.9 | 6175.9 |
| 5° | 6073.6 | 6087.7 | 6084.2 | 6073.6 | 6077.1 | 6066.5 | 6073.6 | 6084.2 | 6091.2 | 6094.8 |
| 7.5° | 6003.0 | 6017.1 | 6010.1 | 5992.4 | 5992.4 | 5981.8 | 5985.4 | 5995.9 | 6006.5 | 6010.1 |
| 10° | 5985.4 | 5999.5 | 5978.3 | 5950.1 | 5939.5 | 5925.4 | 5928.9 | 5939.5 | 5960.7 | 5971.2 |
| 12.5° | 5992.4 | 6003.0 | 5981.8 | 5939.5 | 5928.9 | 5914.8 | 5914.8 | 5925.4 | 5953.6 | 5967.7 |
| 15° | 6013.6 | 6024.2 | 5992.4 | 5946.5 | 5935.9 | 5925.4 | 5921.8 | 5935.9 | 5967.7 | 5992.4 |
| 17.5° | 6052.4 | 6063.0 | 6013.6 | 5950.1 | 5935.9 | 5939.5 | 5935.9 | 5946.5 | 5995.9 | 6041.8 |
| 20° | 6087.7 | 6094.8 | 6027.7 | 5950.1 | 5935.9 | 5939.5 | 5935.9 | 5957.1 | 6020.6 | 6084.2 |
| 22.5° | 6098.3 | 6105.3 | 6041.8 | 5974.8 | 5964.2 | 5967.7 | 5964.2 | 5985.4 | 6045.4 | 6108.9 |
| 25° | 6101.8 | 6112.4 | 6063.0 | 6010.1 | 6027.7 | 6034.8 | 6027.7 | 6031.2 | 6077.1 | 6133.6 |
| 27.5° | 6154.8 | 6168.9 | 6123.0 | 6077.1 | 6087.7 | 6084.2 | 6094.8 | 6105.3 | 6140.6 | 6197.1 |
| 30° | 6264.2 | 6274.7 | 6235.9 | 6190.0 | 6183.0 | 6158.3 | 6190.0 | 6225.3 | 6264.2 | 6313.6 |
| 32.5° | 6444.1 | 6465.3 | 6415.9 | 6366.5 | 6334.7 | 6320.6 | 6345.3 | 6405.3 | 6458.3 | 6511.2 |
| 35° | 6744.1 | 6758.2 | 6712.4 | 6620.6 | 6564.1 | 6564.1 | 6585.3 | 6662.9 | 6747.6 | 6814.7 |
| 37.5° | 7167.6 | 7185.3 | 7104.1 | 6994.7 | 6910.0 | 6910.0 | 6938.2 | 7019.4 | 7146.4 | 7241.7 |
| 40° | 7682.9 | 7707.6 | 7605.2 | 7492.3 | 7411.1 | 7397.0 | 7432.3 | 7524.0 | 7644.0 | 7764.0 |
| 42.5° | 8304.0 | 8332.2 | 8198.1 | 8099.3 | 8035.8 | 8035.8 | 8053.4 | 8138.1 | 8247.5 | 8395.7 |
| 45° | 9098.0 | 9147.4 | 8963.9 | 8865.1 | 8805.1 | 8819.2 | 8829.8 | 8903.9 | 9002.7 | 9172.1 |
| 47.5° | 10043.8 | 10093.2 | 9899.1 | 9796.8 | 9786.2 | 9853.3 | 9810.9 | 9863.8 | 9916.8 | 10110.9 |
| 50° | 11116.7 | 11201.4 | 11067.3 | 11060.2 | 11081.4 | 11204.9 | 11106.1 | 11134.3 | 11074.3 | 11197.8 |
| 52.5° | 12429.5 | 12553.0 | 12528.3 | 12570.7 | 12807.1 | 13061.2 | 12835.3 | 12736.5 | 12510.7 | 12549.5 |
| 55° | 14021.1 | 14208.2 | 14243.5 | 14497.5 | 15034.0 | 15552.8 | 15072.8 | 14674.0 | 14194.0 | 14105.8 |
| 57.5° | 15831.6 | 15979.8 | 16149.2 | 16667.9 | 17670.2 | 18591.3 | 17670.2 | 16787.9 | 16032.7 | 15852.7 |
| 60° | 17779.6 | 17963.1 | 18125.5 | 18891.3 | 20380.6 | 21675.7 | 20352.3 | 18951.3 | 17952.5 | 17709.0 |
| 62.5° | 19872.4 | 20108.8 | 20221.8 | 21072.3 | 22808.6 | 24354.3 | 22833.3 | 21135.8 | 20027.7 | 19766.5 |
| 65° | 21880.4 | 22074.5 | 22201.6 | 23108.6 | 24767.2 | 26316.5 | 24880.2 | 23207.4 | 22067.5 | 21725.1 |
| 67.5° | 22815.6 | 22921.5 | 23232.1 | 24259.0 | 26009.5 | 27777.6 | 26305.9 | 24368.4 | 23094.4 | 22494.5 |
| 70° | 21446.4 | 21231.1 | 21979.2 | 23623.8 | 26157.7 | 28674.0 | 26496.5 | 23574.4 | 22014.5 | 21040.5 |
| 72.5° | 16572.7 | 16202.1 | 17500.8 | 20313.5 | 24463.7 | 28102.2 | 24633.1 | 20472.3 | 18309.0 | 16332.7 |
| 75° | 9016.9 | 8596.9 | 10389.7 | 13947.0 | 19508.9 | 24357.9 | 19957.1 | 14345.8 | 11568.4 | 8949.8 |
| 77.5° | 2544.5 | 2385.7 | 3832.6 | 6747.6 | 11734.3 | 17102.0 | 12186.0 | 6895.9 | 4545.5 | 2696.2 |
| 80° | 779.9 | 755.2 | 1023.4 | 2032.8 | 4983.1 | 8191.0 | 4789.0 | 2057.5 | 1302.2 | 822.3 |
| 82.5° | 462.3 | 423.5 | 508.2 | 741.1 | 1270.5 | 2572.7 | 1235.2 | 772.9 | 621.1 | 416.4 |
| 85° | 264.7 | 247.0 | 300.0 | 360.0 | 427.0 | 547.0 | 356.4 | 367.0 | 331.7 | 222.3 |
| 87.5° | 109.4 | 98.8 | 116.5 | 112.9 | 98.8 | 127.0 | 95.3 | 112.9 | 134.1 | 88.2 |
| 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° |
|---------|
| 6193.6 |
| 6172.4 |
| 6094.8 |
| 6010.1 |
| 5971.2 |
| 5971.2 |
| 5995.9 |
| 6041.8 |
| 6087.7 |
| 6108.9 |
| 6130.0 |
| 6183.0 |
| 6303.0 |
| 6490.0 |
| 6790.0 |
| 7206.4 |
| 7725.2 |
| 8385.1 |
| 9165.1 |
| 10054.4 |
| 11123.7 |
| 12418.9 |
| 13968.2 |
| 15725.7 |
| 17497.3 |
| 19554.8 |
| 21555.8 |
| 22501.6 |
| 21273.4 |
| 16823.2 |
| 9532.1 |
| 2996.2 |
| 868.2 |
| 451.7 |
| 232.9 |
| 81.2 |
| 0.0 |

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