

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: STREETWORKS

Report Number: P847924

Luminaire Tested: **GLAN-SB4B-730-U-T1**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4B-730-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21566 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

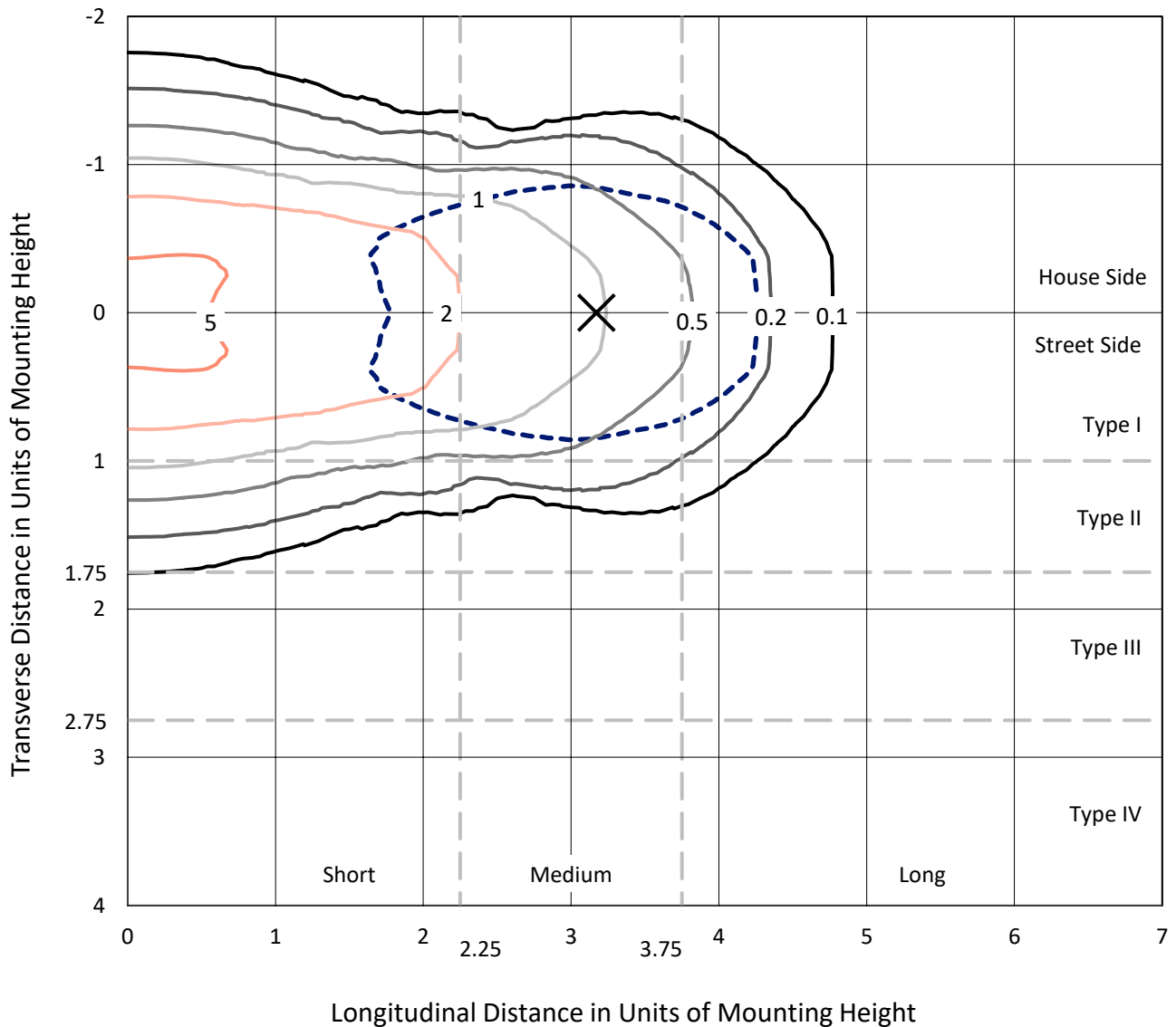
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

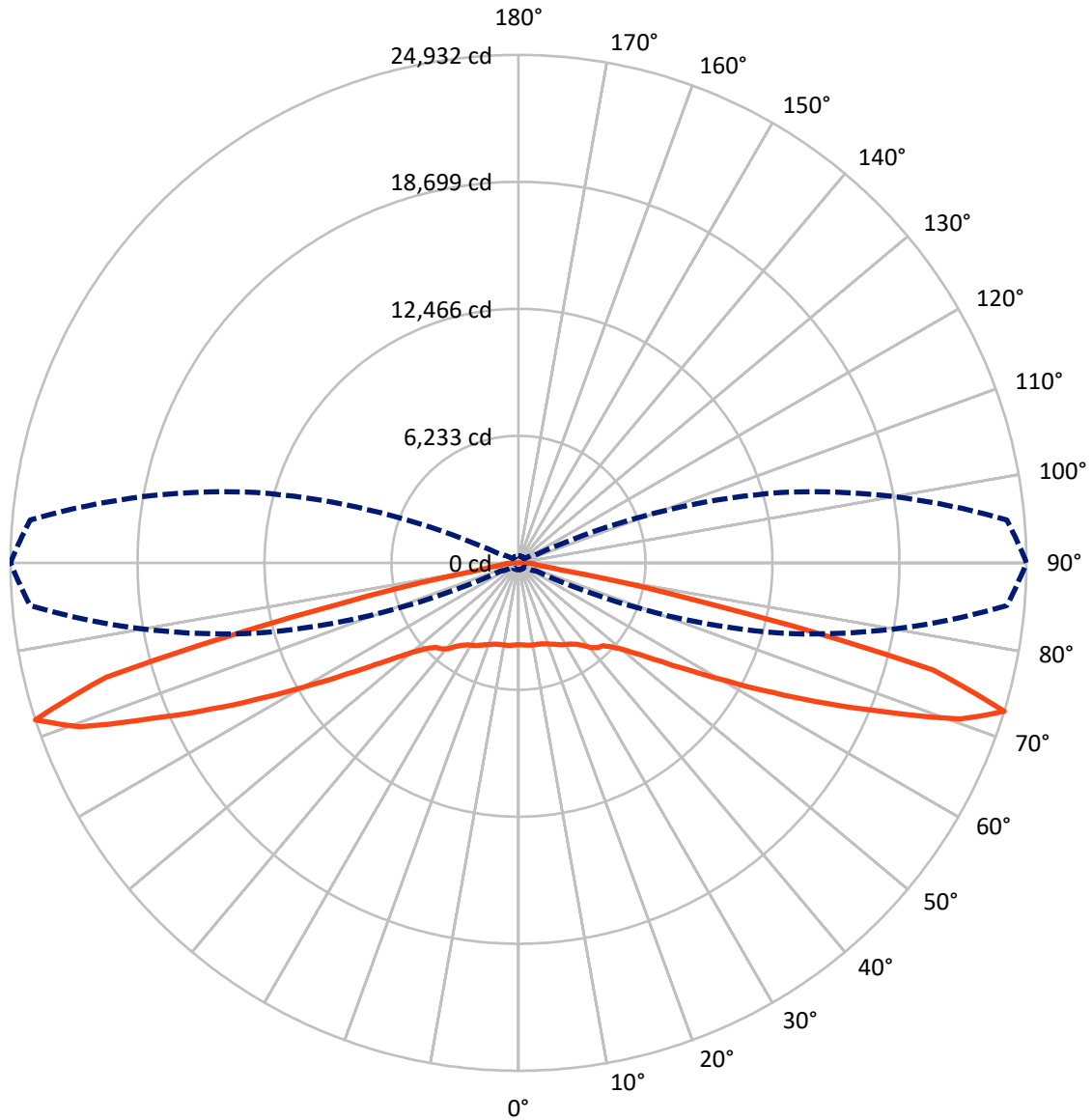
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10783.0 | 0.0 | 10783.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10783.0 | 0.0 | 10783.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21566.0 | 0.0 | 21566.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 390.7 | 1.8 |
| 10°-20° | 1194.7 | 5.5 |
| 20°-30° | 1992.1 | 9.2 |
| 30°-40° | 2739.8 | 12.7 |
| 40°-50° | 3346.0 | 15.5 |
| 50°-60° | 3870.0 | 17.9 |
| 60°-70° | 4614.3 | 21.4 |
| 70°-80° | 3220.5 | 14.9 |
| 80°-90° | 197.8 | 0.9 |
| 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° | 21566.0 | 100.0 |
| 0°-180° | 21566.0 | 100.0 |

Coefficient of Utilization



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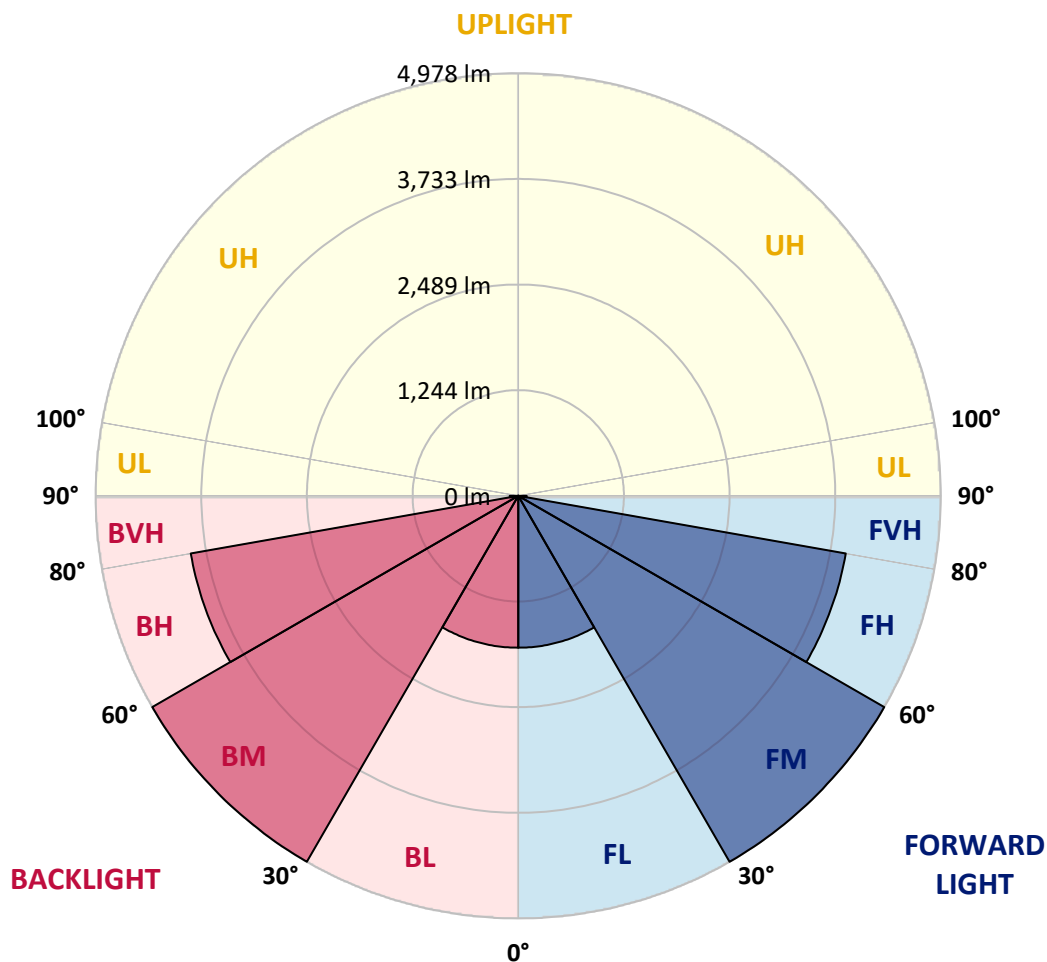
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1788.8 | 8.3 | | | |
| FM (30°-60°) | 4977.9 | 23.1 | | | |
| FH (60°-80°) | 3917.4 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 98.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1788.8 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 4977.9 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 3917.4 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 98.9 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 4029.8 | 4029.8 | 4029.8 | 4029.8 | 4029.8 | 4029.8 | 4029.8 | 4029.8 | 4029.8 | 4029.8 |
| 2.5° | 4033.3 | 4037.9 | 4037.9 | 4034.4 | 4042.4 | 4035.6 | 4035.6 | 4032.1 | 4035.6 | 4032.1 |
| 5° | 4053.9 | 4059.6 | 4061.9 | 4060.8 | 4071.1 | 4065.4 | 4065.4 | 4060.8 | 4061.9 | 4058.5 |
| 7.5° | 4092.9 | 4100.9 | 4105.5 | 4111.2 | 4126.1 | 4119.2 | 4114.6 | 4100.9 | 4095.2 | 4086.0 |
| 10° | 4105.5 | 4114.6 | 4129.5 | 4159.3 | 4193.7 | 4194.9 | 4181.1 | 4146.7 | 4120.4 | 4099.7 |
| 12.5° | 4066.5 | 4079.1 | 4110.1 | 4170.8 | 4247.6 | 4278.5 | 4256.8 | 4199.5 | 4147.9 | 4111.2 |
| 15° | 4017.2 | 4031.0 | 4078.0 | 4169.7 | 4283.1 | 4355.3 | 4353.0 | 4277.4 | 4194.9 | 4137.6 |
| 17.5° | 3940.4 | 3954.2 | 4021.8 | 4150.2 | 4310.6 | 4429.8 | 4461.9 | 4384.0 | 4268.2 | 4191.4 |
| 20° | 3801.8 | 3814.4 | 3908.3 | 4088.3 | 4319.8 | 4508.9 | 4592.6 | 4523.8 | 4379.4 | 4275.1 |
| 22.5° | 3621.8 | 3641.3 | 3751.3 | 3981.7 | 4298.0 | 4591.4 | 4741.6 | 4694.6 | 4508.9 | 4364.5 |
| 25° | 3429.3 | 3449.9 | 3578.3 | 3851.0 | 4241.9 | 4651.0 | 4918.1 | 4888.3 | 4655.6 | 4475.7 |
| 27.5° | 3263.1 | 3284.8 | 3424.7 | 3721.5 | 4154.8 | 4674.0 | 5092.3 | 5107.2 | 4833.3 | 4598.3 |
| 30° | 3132.4 | 3153.0 | 3302.0 | 3617.2 | 4042.4 | 4651.0 | 5244.7 | 5347.9 | 5014.4 | 4704.9 |
| 32.5° | 2989.1 | 3015.5 | 3172.5 | 3490.0 | 3909.5 | 4596.0 | 5377.7 | 5608.1 | 5224.1 | 4819.5 |
| 35° | 2808.0 | 2832.1 | 2997.2 | 3315.8 | 3735.3 | 4507.8 | 5488.9 | 5896.9 | 5524.4 | 4993.7 |
| 37.5° | 2588.0 | 2610.9 | 2774.8 | 3098.0 | 3562.2 | 4384.0 | 5573.7 | 6222.4 | 5882.0 | 5244.7 |
| 40° | 2366.8 | 2388.6 | 2542.1 | 2855.0 | 3354.8 | 4225.8 | 5603.5 | 6541.0 | 6292.3 | 5589.7 |
| 42.5° | 2163.9 | 2183.4 | 2324.4 | 2615.5 | 3122.1 | 4024.1 | 5564.5 | 6818.4 | 6660.2 | 5830.4 |
| 45° | 1977.1 | 1994.3 | 2119.2 | 2390.9 | 2880.3 | 3778.8 | 5447.6 | 7116.4 | 7098.1 | 6002.3 |
| 47.5° | 1763.9 | 1781.1 | 1910.6 | 2173.1 | 2638.4 | 3491.1 | 5249.3 | 7409.8 | 7706.7 | 6392.0 |
| 50° | 1503.7 | 1518.6 | 1651.6 | 1922.1 | 2387.4 | 3185.1 | 4974.3 | 7640.2 | 8474.6 | 6982.3 |
| 52.5° | 1195.4 | 1211.5 | 1341.0 | 1611.5 | 2089.4 | 2856.2 | 4612.1 | 7790.3 | 9361.7 | 7844.2 |
| 55° | 889.4 | 900.9 | 1013.2 | 1256.2 | 1720.4 | 2481.4 | 4158.2 | 7832.7 | 10368.0 | 9022.4 |
| 57.5° | 645.3 | 652.2 | 724.4 | 905.5 | 1304.3 | 2012.6 | 3606.9 | 7722.7 | 11565.7 | 10533.0 |
| 60° | 522.6 | 524.9 | 546.7 | 626.9 | 906.6 | 1483.1 | 2941.0 | 7344.5 | 12865.4 | 12480.3 |
| 62.5° | 474.5 | 474.5 | 480.2 | 502.0 | 613.2 | 978.8 | 2135.3 | 6560.5 | 14259.2 | 14941.1 |
| 65° | 441.3 | 441.3 | 443.6 | 453.9 | 483.7 | 623.5 | 1347.9 | 5283.7 | 15433.9 | 17823.7 |
| 67.5° | 411.5 | 412.6 | 411.5 | 414.9 | 432.1 | 460.7 | 781.7 | 3649.3 | 16066.6 | 20810.5 |
| 70° | 380.5 | 382.8 | 377.1 | 377.1 | 390.8 | 392.0 | 489.4 | 2001.2 | 15541.7 | 23313.7 |
| 72.5° | 343.8 | 347.3 | 338.1 | 335.8 | 346.1 | 341.6 | 367.9 | 960.5 | 13343.4 | 24061.0 |
| 75° | 311.8 | 316.3 | 295.7 | 290.0 | 290.0 | 286.5 | 299.1 | 492.8 | 8660.2 | 19627.7 |
| 77.5° | 283.1 | 292.3 | 259.0 | 240.7 | 236.1 | 225.8 | 244.1 | 301.4 | 3788.0 | 9215.0 |
| 80° | 233.8 | 246.4 | 213.2 | 191.4 | 183.4 | 171.9 | 192.6 | 210.9 | 1126.7 | 2139.8 |
| 82.5° | 174.2 | 179.9 | 151.3 | 136.4 | 129.5 | 121.5 | 144.4 | 146.7 | 366.8 | 757.6 |
| 85° | 111.2 | 113.5 | 92.8 | 80.2 | 76.8 | 73.4 | 91.7 | 80.2 | 139.8 | 557.0 |
| 87.5° | 39.0 | 44.7 | 35.5 | 32.1 | 34.4 | 28.7 | 42.4 | 24.1 | 39.0 | 393.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

4029.8
4032.1
4058.5
4086.0
4096.3
4105.5
4128.4
4178.8
4255.6
4338.1
4439.0
4559.4
4648.8
4748.5
4914.7
5139.3
5477.4
5686.0
5807.5
6167.4
6700.3
7496.9
8588.0
9986.3
11791.5
14018.5
16656.9
19550.9
22982.4
24932.0
20993.9
9023.6
2049.3
856.2
809.2
487.1
0.0

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