

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: P846994

Luminaire Tested: **GLAN-SB2D-850-U-T1**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846994
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-SB2D-850-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17286 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

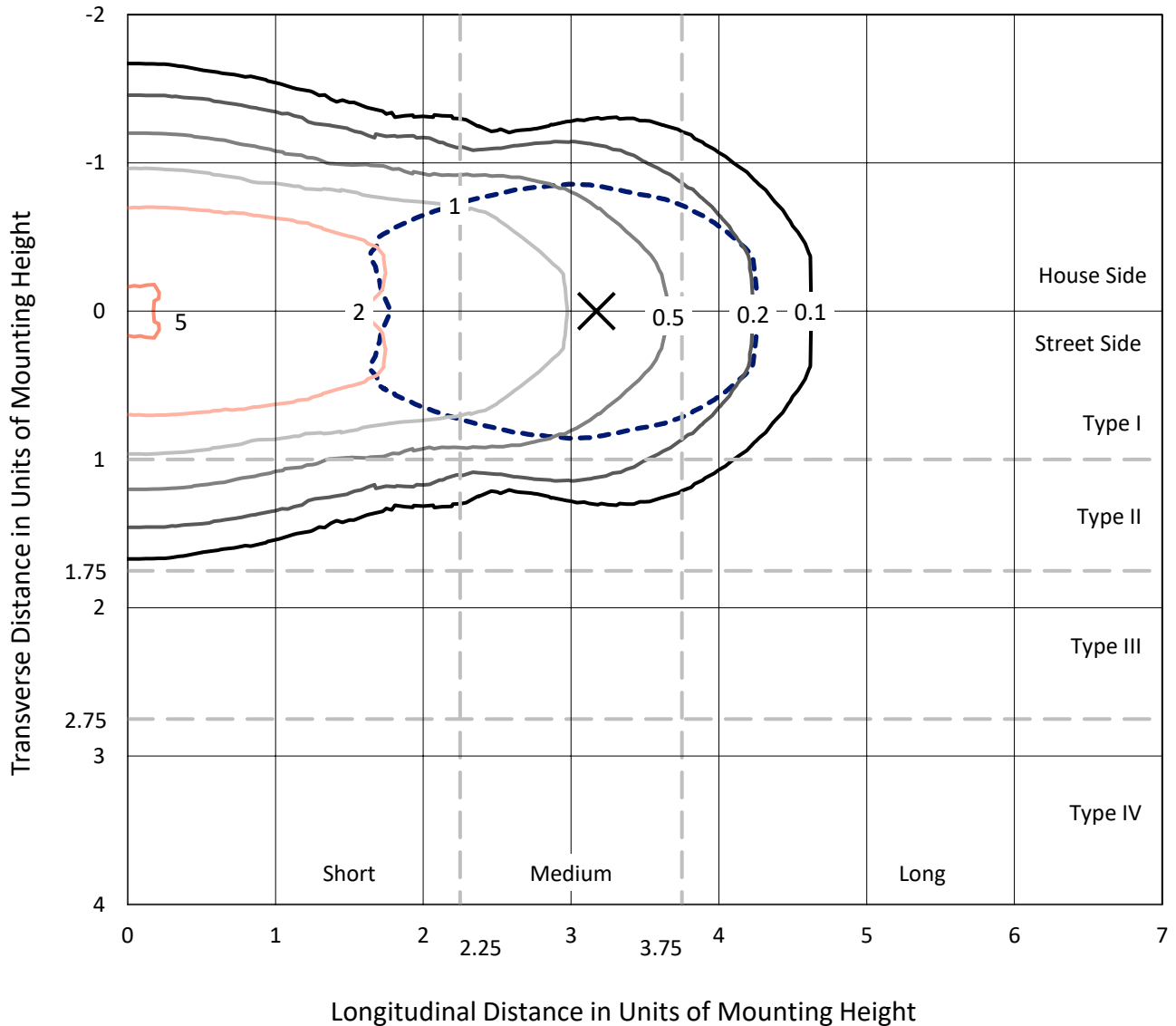
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

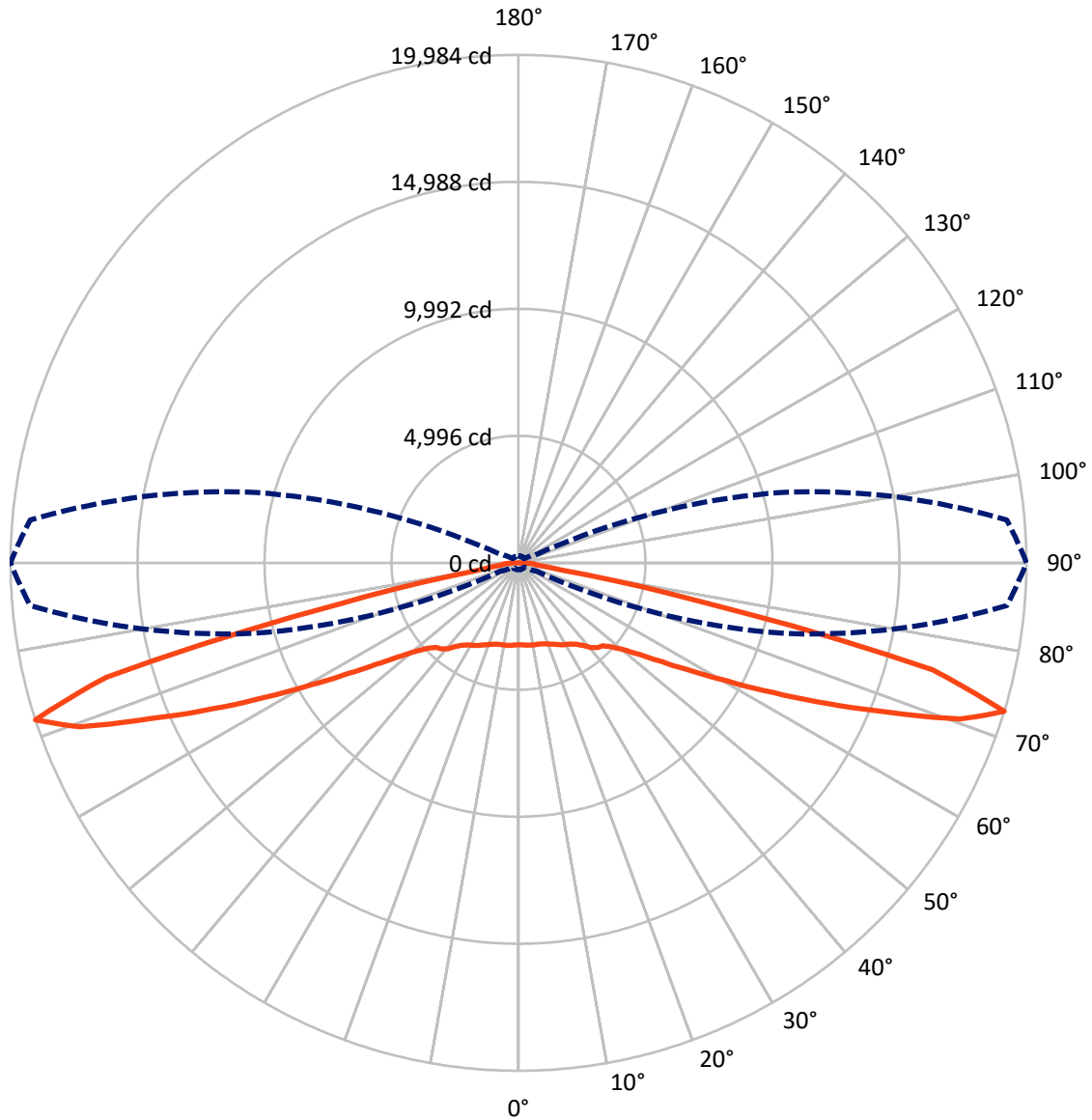
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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 | 8643.0 | 0.0 | 8643.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8643.0 | 0.0 | 8643.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17286.0 | 0.0 | 17286.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 313.2 | 1.8 |
| 10°-20° | 957.6 | 5.5 |
| 20°-30° | 1596.8 | 9.2 |
| 30°-40° | 2196.0 | 12.7 |
| 40°-50° | 2681.9 | 15.5 |
| 50°-60° | 3102.0 | 17.9 |
| 60°-70° | 3698.6 | 21.4 |
| 70°-80° | 2581.4 | 14.9 |
| 80°-90° | 158.6 | 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° | 17286.0 | 100.0 |
| 0°-180° | 17286.0 | 100.0 |

Coefficient of Utilization



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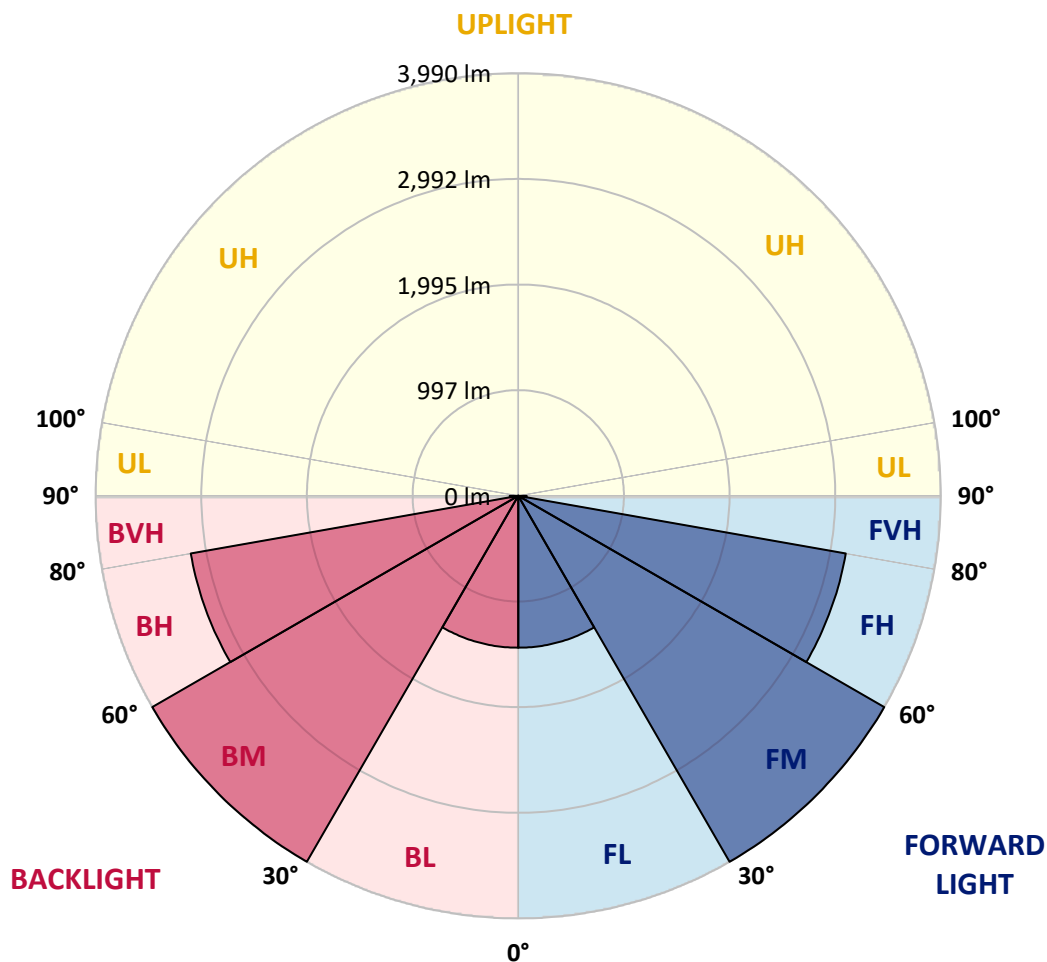
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1433.8 | 8.3 | | | |
| FM (30°-60°) | 3990.0 | 23.1 | | | |
| FH (60°-80°) | 3140.0 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 79.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1433.8 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 3990.0 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 3140.0 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 79.3 | 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° | 3230.1 | 3230.1 | 3230.1 | 3230.1 | 3230.1 | 3230.1 | 3230.1 | 3230.1 | 3230.1 | 3230.1 |
| 2.5° | 3232.8 | 3236.5 | 3236.5 | 3233.7 | 3240.2 | 3234.7 | 3234.7 | 3231.9 | 3234.7 | 3231.9 |
| 5° | 3249.4 | 3254.0 | 3255.8 | 3254.9 | 3263.1 | 3258.6 | 3258.6 | 3254.9 | 3255.8 | 3253.0 |
| 7.5° | 3280.6 | 3287.0 | 3290.7 | 3295.3 | 3307.2 | 3301.7 | 3298.1 | 3287.0 | 3282.4 | 3275.1 |
| 10° | 3290.7 | 3298.1 | 3310.0 | 3333.9 | 3361.4 | 3362.4 | 3351.3 | 3323.8 | 3302.6 | 3286.1 |
| 12.5° | 3259.5 | 3269.6 | 3294.4 | 3343.1 | 3404.6 | 3429.4 | 3412.0 | 3366.0 | 3324.7 | 3295.3 |
| 15° | 3220.0 | 3231.0 | 3268.7 | 3342.2 | 3433.1 | 3491.0 | 3489.1 | 3428.5 | 3362.4 | 3316.4 |
| 17.5° | 3158.4 | 3169.4 | 3223.6 | 3326.5 | 3455.1 | 3550.7 | 3576.4 | 3513.9 | 3421.2 | 3359.6 |
| 20° | 3047.3 | 3057.4 | 3132.7 | 3276.9 | 3462.5 | 3614.1 | 3681.1 | 3626.0 | 3510.3 | 3426.7 |
| 22.5° | 2903.0 | 2918.6 | 3006.8 | 3191.5 | 3445.0 | 3680.2 | 3800.6 | 3762.9 | 3614.1 | 3498.3 |
| 25° | 2748.7 | 2765.2 | 2868.1 | 3086.8 | 3400.0 | 3728.0 | 3942.0 | 3918.2 | 3731.7 | 3587.4 |
| 27.5° | 2615.5 | 2632.9 | 2745.0 | 2982.9 | 3330.2 | 3746.4 | 4081.7 | 4093.6 | 3874.1 | 3685.7 |
| 30° | 2510.7 | 2527.3 | 2646.7 | 2899.3 | 3240.2 | 3728.0 | 4203.9 | 4286.6 | 4019.2 | 3771.2 |
| 32.5° | 2395.9 | 2417.0 | 2542.9 | 2797.4 | 3133.6 | 3683.9 | 4310.4 | 4495.1 | 4187.3 | 3863.0 |
| 35° | 2250.8 | 2270.1 | 2402.3 | 2657.7 | 2994.0 | 3613.2 | 4399.5 | 4726.6 | 4428.0 | 4002.7 |
| 37.5° | 2074.4 | 2092.7 | 2224.1 | 2483.2 | 2855.3 | 3513.9 | 4467.5 | 4987.5 | 4714.7 | 4203.9 |
| 40° | 1897.1 | 1914.5 | 2037.6 | 2288.4 | 2689.0 | 3387.2 | 4491.4 | 5242.9 | 5043.5 | 4480.4 |
| 42.5° | 1734.5 | 1750.1 | 1863.1 | 2096.4 | 2502.5 | 3225.5 | 4460.2 | 5465.2 | 5338.4 | 4673.3 |
| 45° | 1584.7 | 1598.5 | 1698.6 | 1916.4 | 2308.6 | 3028.9 | 4366.5 | 5704.1 | 5689.4 | 4811.1 |
| 47.5° | 1413.8 | 1427.6 | 1531.4 | 1741.8 | 2114.8 | 2798.3 | 4207.5 | 5939.3 | 6177.2 | 5123.5 |
| 50° | 1205.3 | 1217.2 | 1323.8 | 1540.6 | 1913.6 | 2553.0 | 3987.1 | 6123.9 | 6792.7 | 5596.6 |
| 52.5° | 958.2 | 971.0 | 1074.9 | 1291.7 | 1674.7 | 2289.3 | 3696.8 | 6244.3 | 7503.8 | 6287.4 |
| 55° | 712.9 | 722.1 | 812.1 | 1006.9 | 1378.9 | 1988.9 | 3333.0 | 6278.2 | 8310.4 | 7231.8 |
| 57.5° | 517.2 | 522.7 | 580.6 | 725.8 | 1045.5 | 1613.2 | 2891.1 | 6190.1 | 9270.4 | 8442.7 |
| 60° | 418.9 | 420.8 | 438.2 | 502.5 | 726.7 | 1188.8 | 2357.3 | 5886.9 | 10312.2 | 10003.5 |
| 62.5° | 380.3 | 380.3 | 384.9 | 402.4 | 491.5 | 784.6 | 1711.5 | 5258.5 | 11429.3 | 11975.9 |
| 65° | 353.7 | 353.7 | 355.5 | 363.8 | 387.7 | 499.8 | 1080.4 | 4235.1 | 12370.9 | 14286.4 |
| 67.5° | 329.8 | 330.7 | 329.8 | 332.6 | 346.3 | 369.3 | 626.5 | 2925.1 | 12878.0 | 16680.4 |
| 70° | 305.0 | 306.8 | 302.2 | 302.2 | 313.3 | 314.2 | 392.3 | 1604.0 | 12457.3 | 18686.8 |
| 72.5° | 275.6 | 278.4 | 271.0 | 269.2 | 277.4 | 273.8 | 294.9 | 769.9 | 10695.2 | 19285.8 |
| 75° | 249.9 | 253.6 | 237.0 | 232.4 | 232.4 | 229.7 | 239.8 | 395.0 | 6941.5 | 15732.4 |
| 77.5° | 226.9 | 234.3 | 207.6 | 192.9 | 189.2 | 181.0 | 195.7 | 241.6 | 3036.2 | 7386.2 |
| 80° | 187.4 | 197.5 | 170.9 | 153.4 | 147.0 | 137.8 | 154.3 | 169.0 | 903.1 | 1715.2 |
| 82.5° | 139.6 | 144.2 | 121.3 | 109.3 | 103.8 | 97.4 | 115.8 | 117.6 | 294.0 | 607.2 |
| 85° | 89.1 | 90.9 | 74.4 | 64.3 | 61.6 | 58.8 | 73.5 | 64.3 | 112.1 | 446.5 |
| 87.5° | 31.2 | 35.8 | 28.5 | 25.7 | 27.6 | 23.0 | 34.0 | 19.3 | 31.2 | 315.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

3230.1
3231.9
3253.0
3275.1
3283.4
3290.7
3309.1
3349.5
3411.1
3477.2
3558.0
3654.5
3726.2
3806.1
3939.3
4119.4
4390.4
4557.6
4654.9
4943.4
5370.6
6009.1
6883.7
8004.4
9451.4
11236.3
13351.1
15670.8
18421.3
19984.0
16827.4
7232.8
1642.6
686.3
648.6
390.4
0.0

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