

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: P850721

Luminaire Tested: **GLAN-SB8B-840-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8B-840-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40959 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

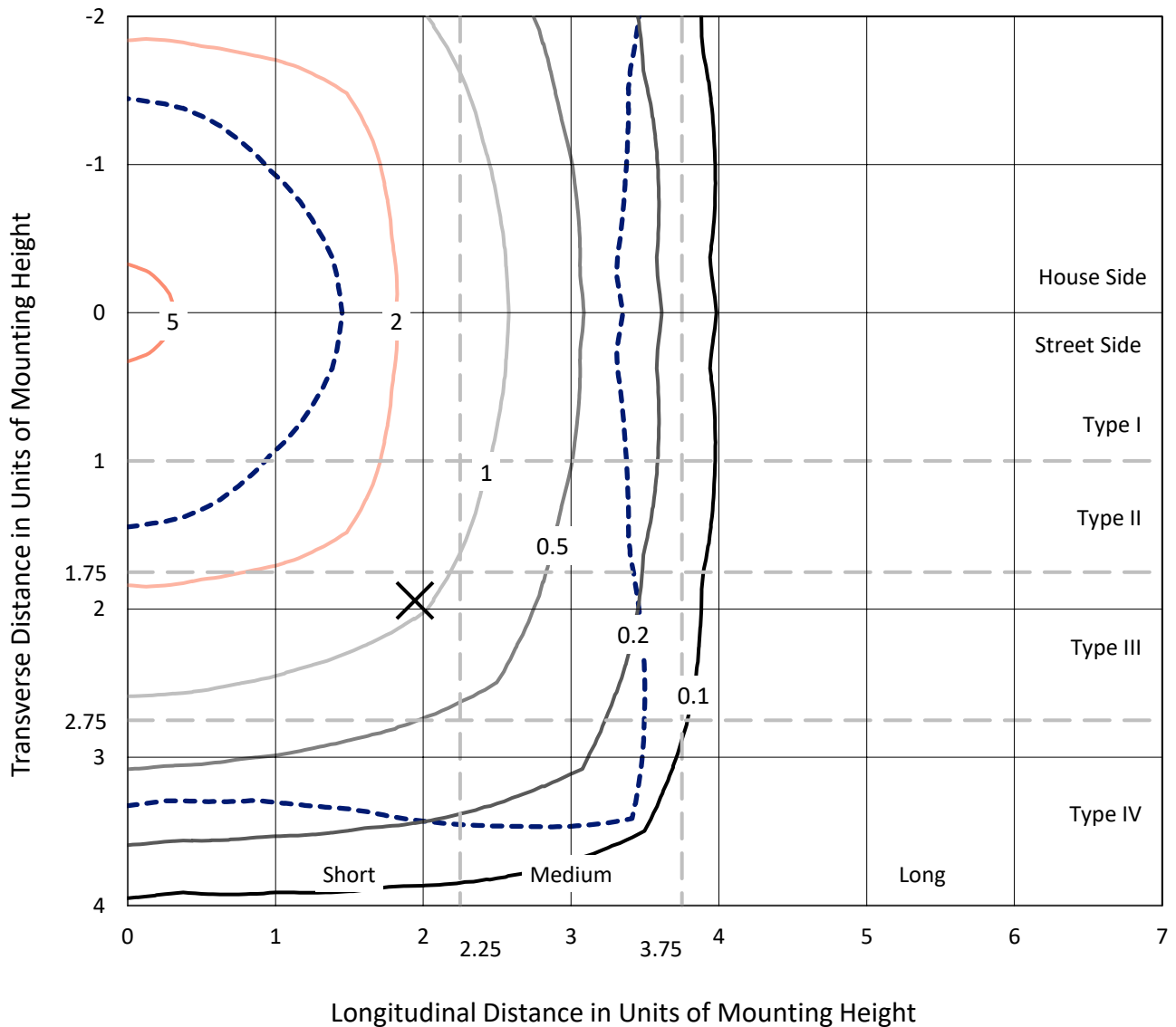
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

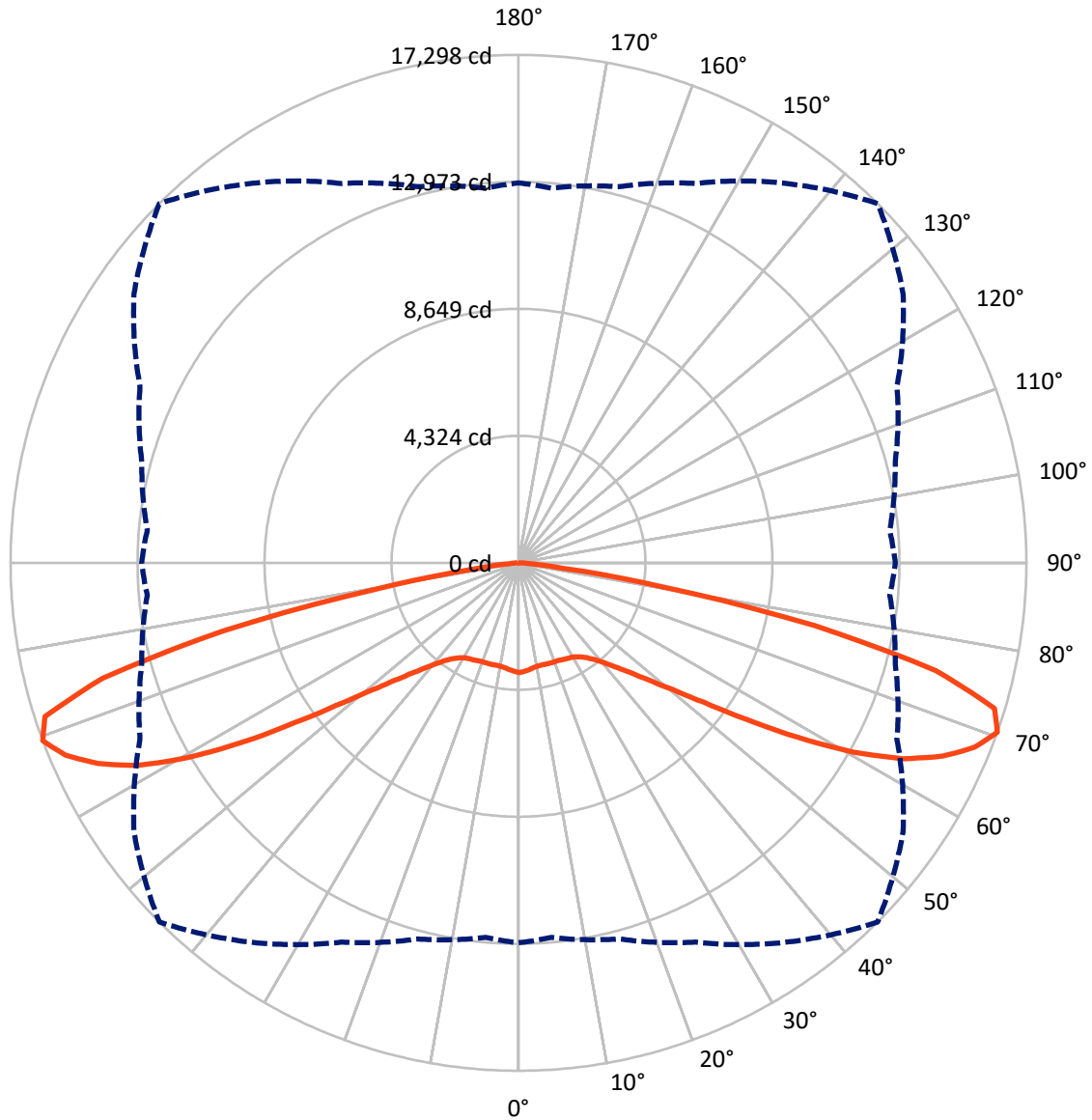
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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 | 20479.5 | 0.0 | 20479.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20479.5 | 0.0 | 20479.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 40959.0 | 0.0 | 40959.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 347.6 | 0.8 |
| 10°-20° | 1020.5 | 2.5 |
| 20°-30° | 1698.3 | 4.1 |
| 30°-40° | 2568.4 | 6.3 |
| 40°-50° | 4268.0 | 10.4 |
| 50°-60° | 8053.6 | 19.7 |
| 60°-70° | 13598.8 | 33.2 |
| 70°-80° | 8935.8 | 21.8 |
| 80°-90° | 468.1 | 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° | 40959.0 | 100.0 |
| 0°-180° | 40959.0 | 100.0 |

Coefficient of Utilization

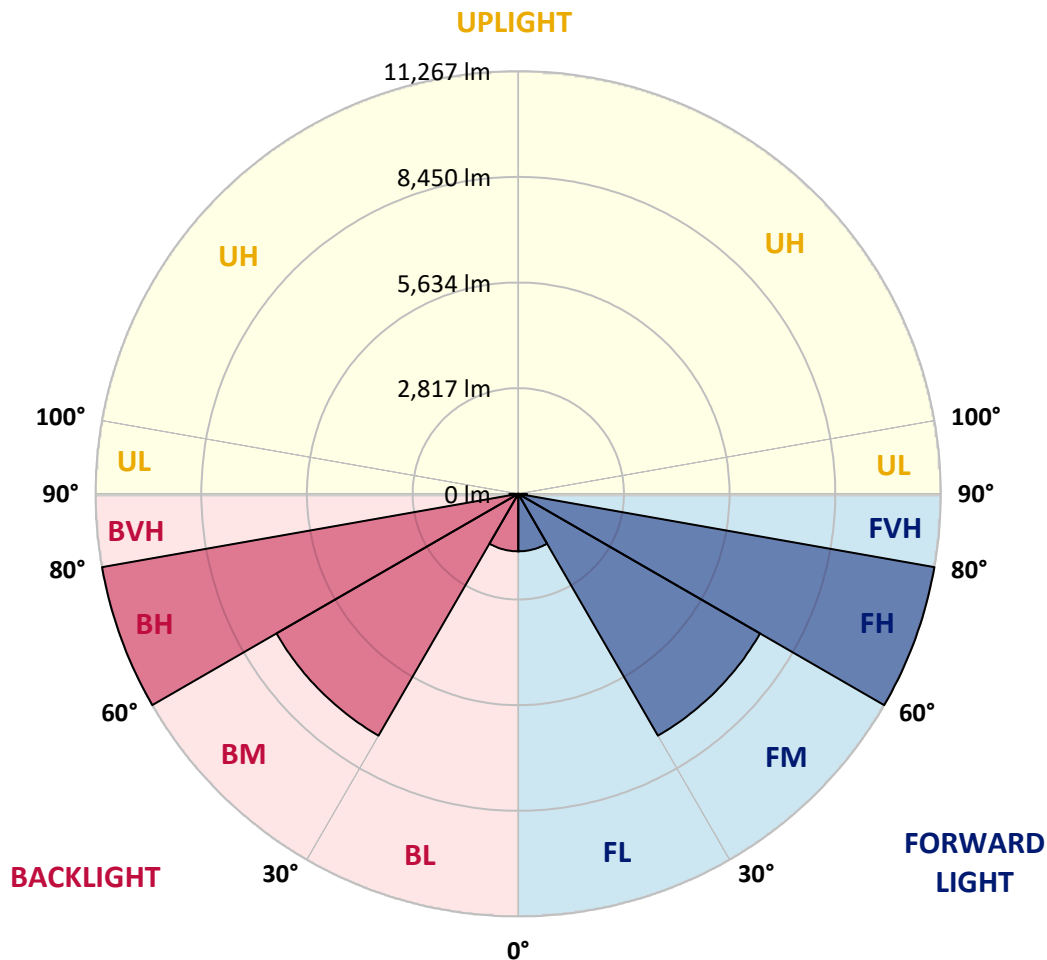


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1533.2 | 3.7 | | | |
| FM (30°-60°) | 7445.0 | 18.2 | | | |
| FH (60°-80°) | 11267.3 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 234.1 | 0.6 | | | G3/500 |
| BL (0°-30°) | 1533.2 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 7445.0 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 11267.3 | 27.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 234.1 | 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-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3736.3 | 3736.3 | 3736.3 | 3736.3 | 3736.3 | 3736.3 | 3736.3 | 3736.3 | 3736.3 | 3736.3 |
| 2.5° | 3712.9 | 3723.5 | 3719.3 | 3710.7 | 3710.7 | 3704.4 | 3710.7 | 3715.0 | 3721.4 | 3725.6 |
| 5° | 3663.9 | 3672.4 | 3670.3 | 3663.9 | 3666.0 | 3659.6 | 3663.9 | 3670.3 | 3674.5 | 3676.7 |
| 7.5° | 3621.3 | 3629.8 | 3625.6 | 3614.9 | 3614.9 | 3608.5 | 3610.7 | 3617.1 | 3623.5 | 3625.6 |
| 10° | 3610.7 | 3619.2 | 3606.4 | 3589.4 | 3583.0 | 3574.5 | 3576.6 | 3583.0 | 3595.8 | 3602.2 |
| 12.5° | 3614.9 | 3621.3 | 3608.5 | 3583.0 | 3576.6 | 3568.1 | 3568.1 | 3574.5 | 3591.5 | 3600.0 |
| 15° | 3627.7 | 3634.1 | 3614.9 | 3587.3 | 3580.9 | 3574.5 | 3572.4 | 3580.9 | 3600.0 | 3614.9 |
| 17.5° | 3651.1 | 3657.5 | 3627.7 | 3589.4 | 3580.9 | 3583.0 | 3580.9 | 3587.3 | 3617.1 | 3644.7 |
| 20° | 3672.4 | 3676.7 | 3636.2 | 3589.4 | 3580.9 | 3583.0 | 3580.9 | 3593.6 | 3632.0 | 3670.3 |
| 22.5° | 3678.8 | 3683.1 | 3644.7 | 3604.3 | 3597.9 | 3600.0 | 3597.9 | 3610.7 | 3646.9 | 3685.2 |
| 25° | 3680.9 | 3687.3 | 3657.5 | 3625.6 | 3636.2 | 3640.5 | 3636.2 | 3638.4 | 3666.0 | 3700.1 |
| 27.5° | 3712.9 | 3721.4 | 3693.7 | 3666.0 | 3672.4 | 3670.3 | 3676.7 | 3683.1 | 3704.4 | 3738.4 |
| 30° | 3778.9 | 3785.3 | 3761.8 | 3734.2 | 3729.9 | 3715.0 | 3734.2 | 3755.4 | 3778.9 | 3808.7 |
| 32.5° | 3887.4 | 3900.2 | 3870.4 | 3840.6 | 3821.4 | 3812.9 | 3827.8 | 3864.0 | 3896.0 | 3927.9 |
| 35° | 4068.4 | 4076.9 | 4049.2 | 3993.9 | 3959.8 | 3959.8 | 3972.6 | 4019.4 | 4070.5 | 4111.0 |
| 37.5° | 4323.9 | 4334.5 | 4285.6 | 4219.6 | 4168.5 | 4168.5 | 4185.5 | 4234.5 | 4311.1 | 4368.6 |
| 40° | 4634.7 | 4649.6 | 4587.9 | 4519.7 | 4470.8 | 4462.3 | 4483.5 | 4538.9 | 4611.3 | 4683.7 |
| 42.5° | 5009.4 | 5026.4 | 4945.5 | 4885.9 | 4847.6 | 4847.6 | 4858.2 | 4909.3 | 4975.3 | 5064.7 |
| 45° | 5488.4 | 5518.2 | 5407.5 | 5347.9 | 5311.7 | 5320.2 | 5326.6 | 5371.3 | 5430.9 | 5533.1 |
| 47.5° | 6059.0 | 6088.8 | 5971.7 | 5909.9 | 5903.5 | 5944.0 | 5918.4 | 5950.4 | 5982.3 | 6099.4 |
| 50° | 6706.2 | 6757.2 | 6676.3 | 6672.1 | 6684.9 | 6759.4 | 6699.8 | 6716.8 | 6680.6 | 6755.1 |
| 52.5° | 7498.1 | 7572.6 | 7557.7 | 7583.3 | 7725.9 | 7879.2 | 7742.9 | 7683.3 | 7547.1 | 7570.5 |
| 55° | 8458.3 | 8571.1 | 8592.4 | 8745.7 | 9069.3 | 9382.2 | 9092.7 | 8852.1 | 8562.6 | 8509.4 |
| 57.5° | 9550.4 | 9639.8 | 9742.0 | 10055.0 | 10659.6 | 11215.2 | 10659.6 | 10127.4 | 9671.8 | 9563.2 |
| 60° | 10725.6 | 10836.3 | 10934.2 | 11396.2 | 12294.6 | 13075.9 | 12277.6 | 11432.4 | 10829.9 | 10683.0 |
| 62.5° | 11988.0 | 12130.7 | 12198.8 | 12711.9 | 13759.3 | 14691.8 | 13774.2 | 12750.2 | 12081.7 | 11924.2 |
| 65° | 13199.4 | 13316.5 | 13393.1 | 13940.3 | 14940.9 | 15875.5 | 15009.0 | 13999.9 | 13312.2 | 13105.7 |
| 67.5° | 13763.6 | 13827.4 | 14014.8 | 14634.3 | 15690.3 | 16756.9 | 15869.1 | 14700.3 | 13931.8 | 13569.8 |
| 70° | 12937.6 | 12807.7 | 13259.0 | 14251.1 | 15779.7 | 17297.6 | 15984.1 | 14221.3 | 13280.3 | 12692.7 |
| 72.5° | 9997.5 | 9774.0 | 10557.4 | 12254.2 | 14757.8 | 16952.7 | 14860.0 | 12350.0 | 11044.9 | 9852.7 |
| 75° | 5439.4 | 5186.1 | 6267.6 | 8413.6 | 11768.8 | 14693.9 | 12039.1 | 8654.1 | 6978.7 | 5399.0 |
| 77.5° | 1535.0 | 1439.2 | 2312.0 | 4070.5 | 7078.7 | 10316.8 | 7351.2 | 4159.9 | 2742.1 | 1626.5 |
| 80° | 470.5 | 455.6 | 617.4 | 1226.3 | 3006.1 | 4941.3 | 2889.0 | 1241.2 | 785.6 | 496.0 |
| 82.5° | 278.9 | 255.5 | 306.6 | 447.1 | 766.4 | 1552.0 | 745.1 | 466.2 | 374.7 | 251.2 |
| 85° | 159.7 | 149.0 | 181.0 | 217.2 | 257.6 | 330.0 | 215.0 | 221.4 | 200.1 | 134.1 |
| 87.5° | 66.0 | 59.6 | 70.3 | 68.1 | 59.6 | 76.6 | 57.5 | 68.1 | 80.9 | 53.2 |
| 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°
3736.3
3723.5
3676.7
3625.6
3602.2
3602.2
3617.1
3644.7
3672.4
3685.2
3698.0
3729.9
3802.3
3915.1
4096.1
4347.3
4660.2
5058.4
5528.9
6065.3
6710.4
7491.7
8426.3
9486.5
10555.3
11796.4
13003.6
13574.1
12833.2
10148.6
5750.3
1807.5
523.7
272.5
140.5
49.0
0.0

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