

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: P941573

Luminaire Tested: **GALN-SB5A-935-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-935-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15594 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

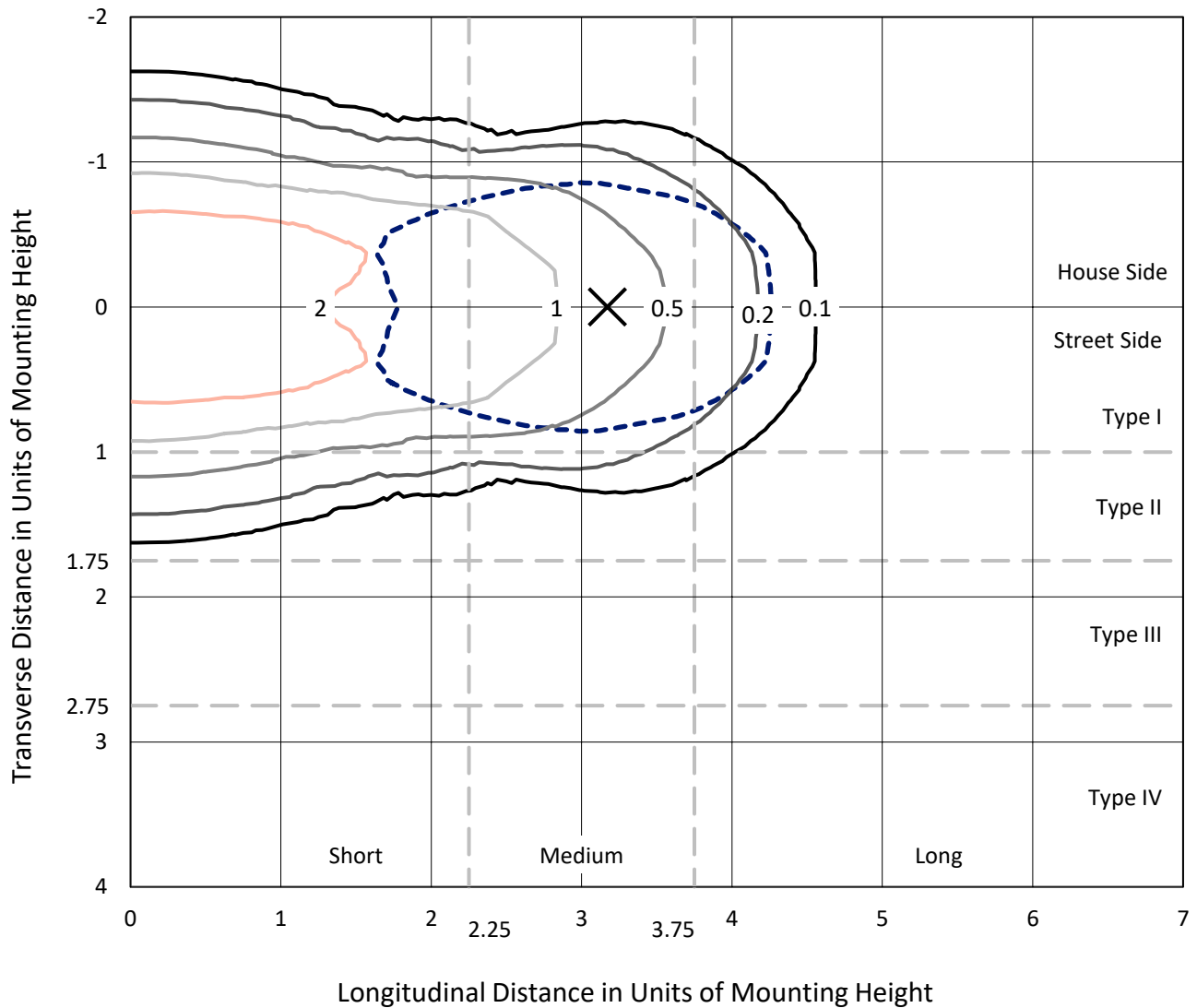
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

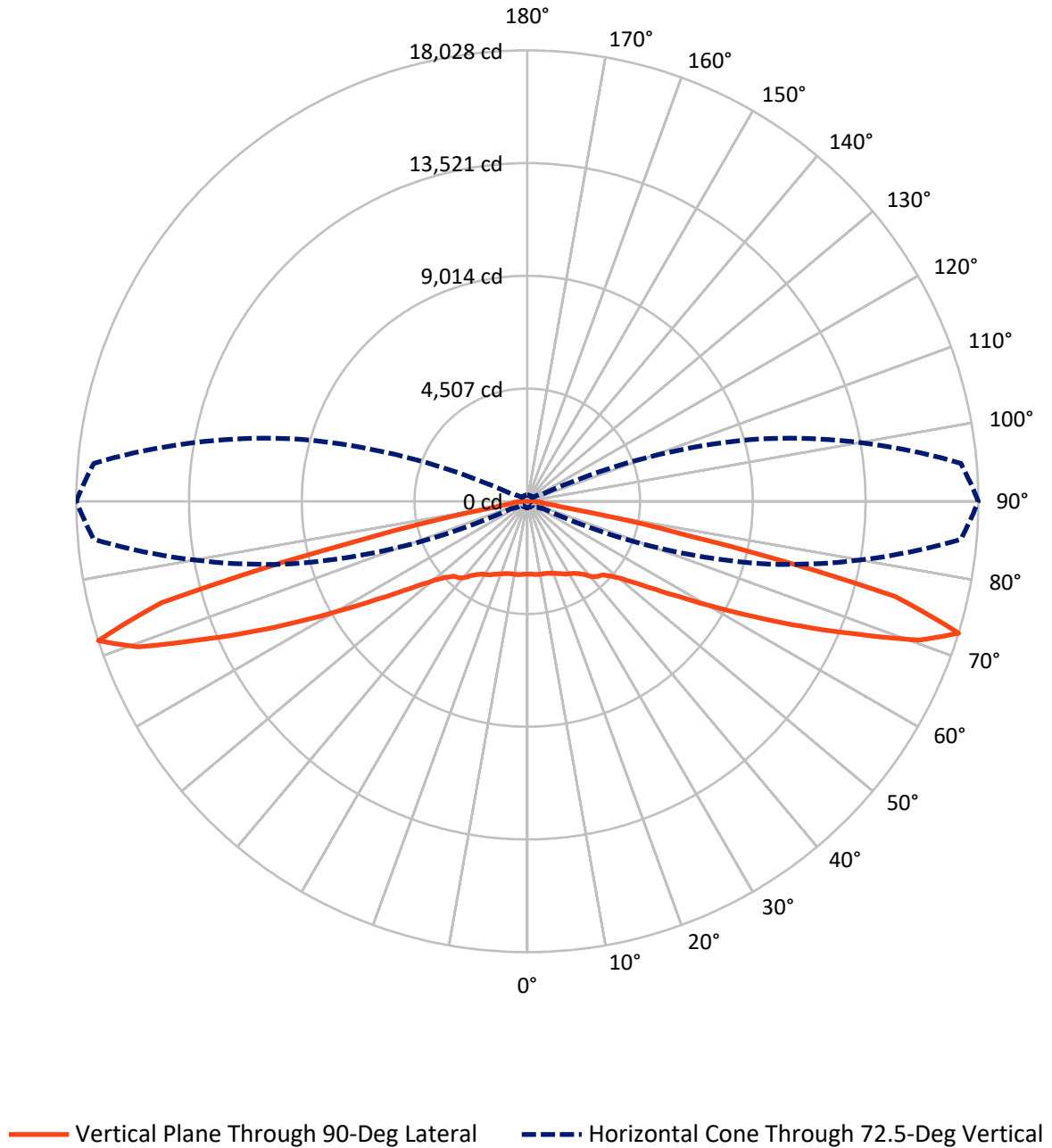
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7797.0 | 0.0 | 7797.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7797.0 | 0.0 | 7797.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15594.0 | 0.0 | 15594.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 282.5 | 1.8 |
| 10°-20° | 863.9 | 5.5 |
| 20°-30° | 1440.5 | 9.2 |
| 30°-40° | 1981.1 | 12.7 |
| 40°-50° | 2419.4 | 15.5 |
| 50°-60° | 2798.3 | 17.9 |
| 60°-70° | 3336.6 | 21.4 |
| 70°-80° | 2328.7 | 14.9 |
| 80°-90° | 143.0 | 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° | 15594.0 | 100.0 |
| 0°-180° | 15594.0 | 100.0 |

Coefficient of Utilization



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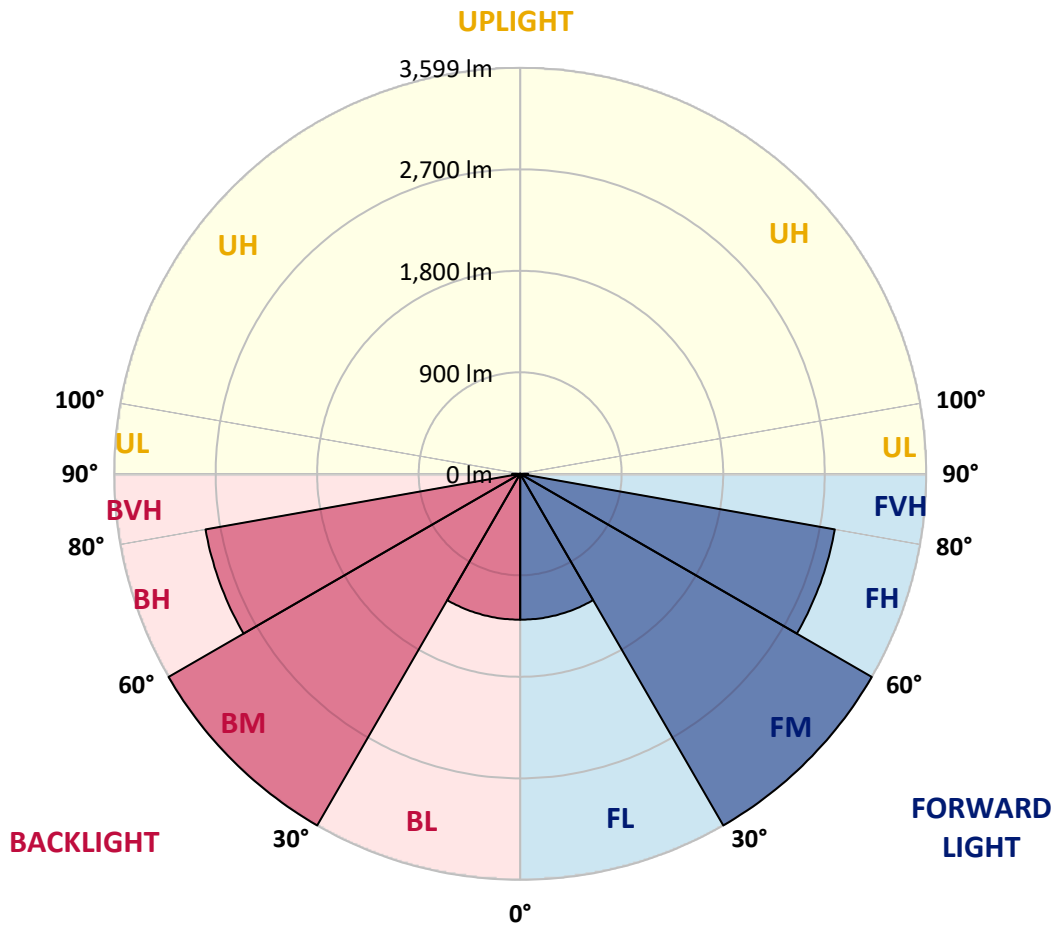
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1293.4 | 8.3 | | | |
| FM (30°-60°) | 3599.4 | 23.1 | | | |
| FH (60°-80°) | 2832.6 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 71.5 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1293.4 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 3599.4 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 2832.6 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 71.5 | 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° | 2913.9 | 2913.9 | 2913.9 | 2913.9 | 2913.9 | 2913.9 | 2913.9 | 2913.9 | 2913.9 | 2913.9 |
| 2.5° | 2916.4 | 2919.7 | 2919.7 | 2917.2 | 2923.0 | 2918.0 | 2918.0 | 2915.6 | 2918.0 | 2915.6 |
| 5° | 2931.3 | 2935.5 | 2937.1 | 2936.3 | 2943.7 | 2939.6 | 2939.6 | 2936.3 | 2937.1 | 2934.6 |
| 7.5° | 2959.5 | 2965.3 | 2968.6 | 2972.7 | 2983.5 | 2978.5 | 2975.2 | 2965.3 | 2961.1 | 2954.5 |
| 10° | 2968.6 | 2975.2 | 2986.0 | 3007.6 | 3032.4 | 3033.2 | 3023.3 | 2998.4 | 2979.4 | 2964.5 |
| 12.5° | 2940.4 | 2949.5 | 2971.9 | 3015.8 | 3071.4 | 3093.7 | 3078.0 | 3036.6 | 2999.3 | 2972.7 |
| 15° | 2904.8 | 2914.7 | 2948.7 | 3015.0 | 3097.1 | 3149.3 | 3147.6 | 3092.9 | 3033.2 | 2991.8 |
| 17.5° | 2849.3 | 2859.2 | 2908.1 | 3000.9 | 3116.9 | 3203.1 | 3226.3 | 3170.0 | 3086.3 | 3030.8 |
| 20° | 2749.0 | 2758.1 | 2826.1 | 2956.2 | 3123.6 | 3260.3 | 3320.8 | 3271.1 | 3166.7 | 3091.3 |
| 22.5° | 2618.9 | 2633.0 | 2712.5 | 2879.1 | 3107.8 | 3320.0 | 3428.6 | 3394.6 | 3260.3 | 3155.9 |
| 25° | 2479.6 | 2494.6 | 2587.4 | 2784.6 | 3067.2 | 3363.1 | 3556.2 | 3534.6 | 3366.4 | 3236.3 |
| 27.5° | 2359.5 | 2375.2 | 2476.3 | 2691.0 | 3004.2 | 3379.7 | 3682.2 | 3692.9 | 3494.9 | 3325.0 |
| 30° | 2265.0 | 2279.9 | 2387.6 | 2615.6 | 2923.0 | 3363.1 | 3792.4 | 3867.0 | 3625.8 | 3402.0 |
| 32.5° | 2161.4 | 2180.5 | 2294.0 | 2523.6 | 2826.9 | 3323.3 | 3888.5 | 4055.1 | 3777.5 | 3484.9 |
| 35° | 2030.5 | 2047.9 | 2167.2 | 2397.6 | 2700.9 | 3259.5 | 3968.9 | 4263.9 | 3994.6 | 3610.9 |
| 37.5° | 1871.3 | 1887.9 | 2006.4 | 2240.1 | 2575.8 | 3170.0 | 4030.2 | 4499.3 | 4253.2 | 3792.4 |
| 40° | 1711.4 | 1727.1 | 1838.2 | 2064.4 | 2425.8 | 3055.6 | 4051.8 | 4729.7 | 4549.9 | 4041.8 |
| 42.5° | 1564.7 | 1578.8 | 1680.7 | 1891.2 | 2257.5 | 2909.8 | 4023.6 | 4930.3 | 4815.9 | 4215.9 |
| 45° | 1429.6 | 1442.0 | 1532.4 | 1728.8 | 2082.7 | 2732.4 | 3939.1 | 5145.7 | 5132.5 | 4340.2 |
| 47.5° | 1275.5 | 1287.9 | 1381.5 | 1571.3 | 1907.8 | 2524.4 | 3795.7 | 5357.9 | 5572.6 | 4622.0 |
| 50° | 1087.3 | 1098.1 | 1194.2 | 1389.8 | 1726.3 | 2303.1 | 3596.8 | 5524.5 | 6127.8 | 5048.8 |
| 52.5° | 864.4 | 876.0 | 969.6 | 1165.2 | 1510.8 | 2065.3 | 3334.9 | 5633.0 | 6769.3 | 5672.0 |
| 55° | 643.1 | 651.4 | 732.6 | 908.3 | 1244.0 | 1794.3 | 3006.7 | 5663.7 | 7496.9 | 6524.0 |
| 57.5° | 466.6 | 471.6 | 523.8 | 654.7 | 943.1 | 1455.3 | 2608.1 | 5584.2 | 8363.0 | 7616.3 |
| 60° | 377.9 | 379.6 | 395.3 | 453.3 | 655.5 | 1072.4 | 2126.6 | 5310.7 | 9302.8 | 9024.3 |
| 62.5° | 343.1 | 343.1 | 347.2 | 363.0 | 443.4 | 707.8 | 1544.0 | 4743.8 | 10310.5 | 10803.7 |
| 65° | 319.1 | 319.1 | 320.7 | 328.2 | 349.7 | 450.8 | 974.6 | 3820.6 | 11160.0 | 12888.0 |
| 67.5° | 297.5 | 298.4 | 297.5 | 300.0 | 312.4 | 333.2 | 565.2 | 2638.8 | 11617.5 | 15047.7 |
| 70° | 275.1 | 276.8 | 272.7 | 272.7 | 282.6 | 283.4 | 353.9 | 1447.0 | 11237.9 | 16857.7 |
| 72.5° | 248.6 | 251.1 | 244.5 | 242.8 | 250.3 | 247.0 | 266.0 | 694.5 | 9648.4 | 17398.1 |
| 75° | 225.4 | 228.7 | 213.8 | 209.7 | 209.7 | 207.2 | 216.3 | 356.4 | 6262.1 | 14192.4 |
| 77.5° | 204.7 | 211.3 | 187.3 | 174.0 | 170.7 | 163.3 | 176.5 | 218.0 | 2739.0 | 6663.2 |
| 80° | 169.1 | 178.2 | 154.1 | 138.4 | 132.6 | 124.3 | 139.2 | 152.5 | 814.7 | 1547.3 |
| 82.5° | 126.0 | 130.1 | 109.4 | 98.6 | 93.6 | 87.8 | 104.4 | 106.1 | 265.2 | 547.8 |
| 85° | 80.4 | 82.0 | 67.1 | 58.0 | 55.5 | 53.0 | 66.3 | 58.0 | 101.1 | 402.8 |
| 87.5° | 28.2 | 32.3 | 25.7 | 23.2 | 24.9 | 20.7 | 30.7 | 17.4 | 28.2 | 284.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

2913.9
2915.6
2934.6
2954.5
2962.0
2968.6
2985.2
3021.6
3077.2
3136.8
3209.8
3296.8
3361.4
3433.5
3553.7
3716.1
3960.6
4111.5
4199.3
4459.5
4844.9
5420.9
6209.9
7220.9
8526.2
10136.5
12044.3
14136.9
16618.2
18027.9
15180.3
6524.8
1481.8
619.1
585.1
352.2
0.0

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