

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: P942073

Luminaire Tested: **GALN-SB5D-930-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942073
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-SB5D-930-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35375 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

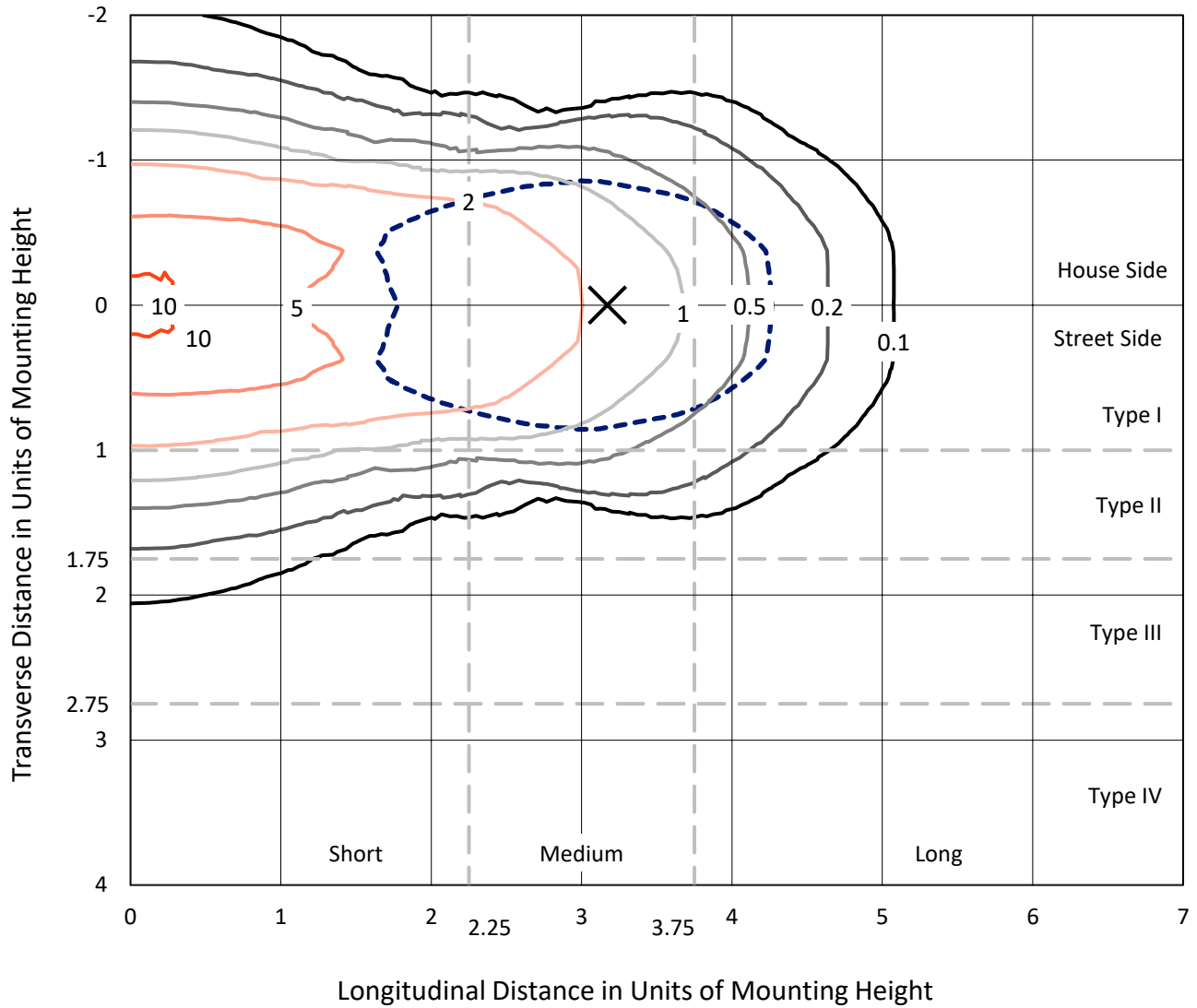
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

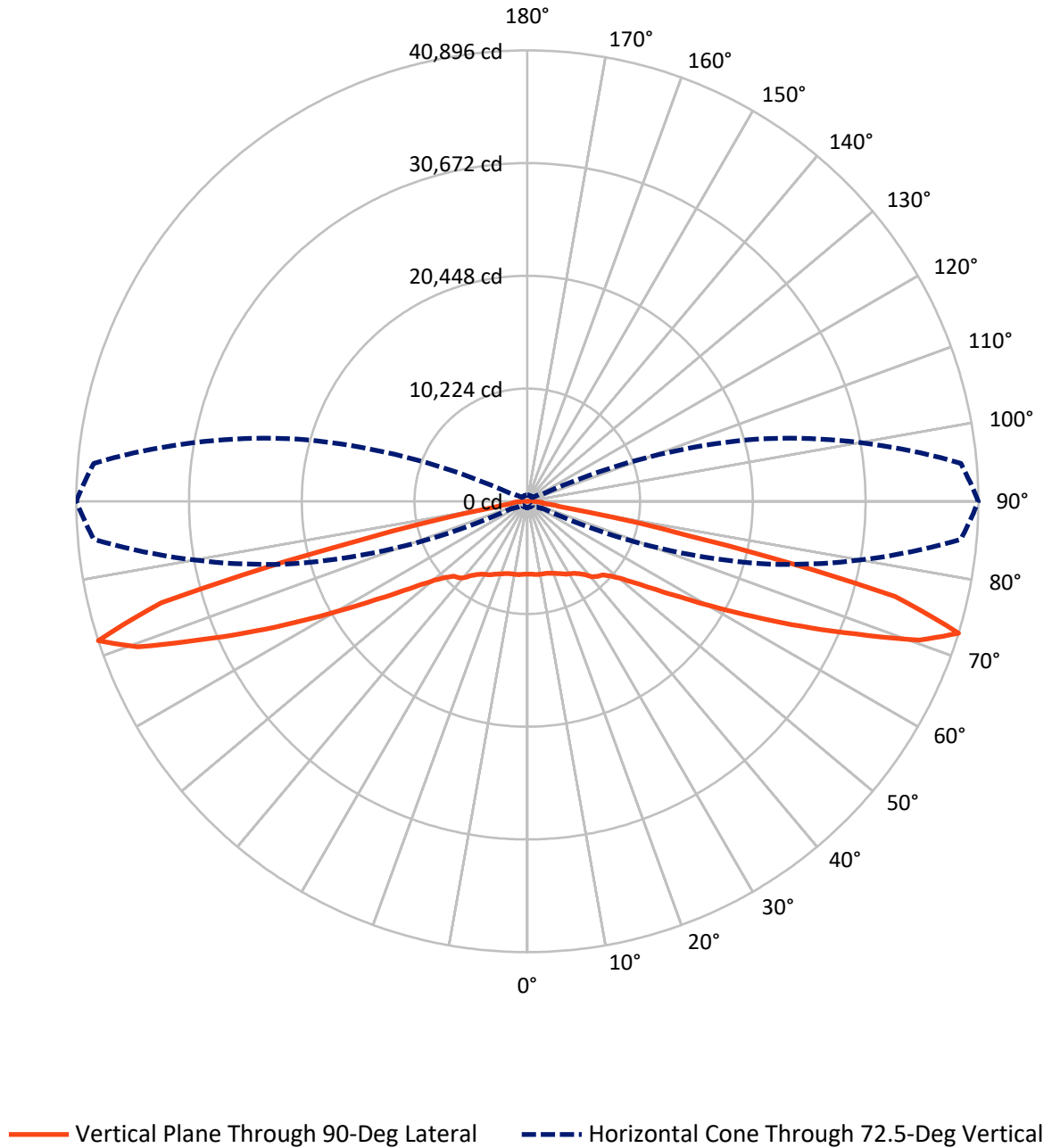
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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 | 17687.5 | 0.0 | 17687.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17687.5 | 0.0 | 17687.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 35375.0 | 0.0 | 35375.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 640.9 | 1.8 |
| 10°-20° | 1959.7 | 5.5 |
| 20°-30° | 3267.7 | 9.2 |
| 30°-40° | 4494.1 | 12.7 |
| 40°-50° | 5488.5 | 15.5 |
| 50°-60° | 6348.0 | 17.9 |
| 60°-70° | 7569.0 | 21.4 |
| 70°-80° | 5282.6 | 14.9 |
| 80°-90° | 324.5 | 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° | 35375.0 | 100.0 |
| 0°-180° | 35375.0 | 100.0 |

Coefficient of Utilization



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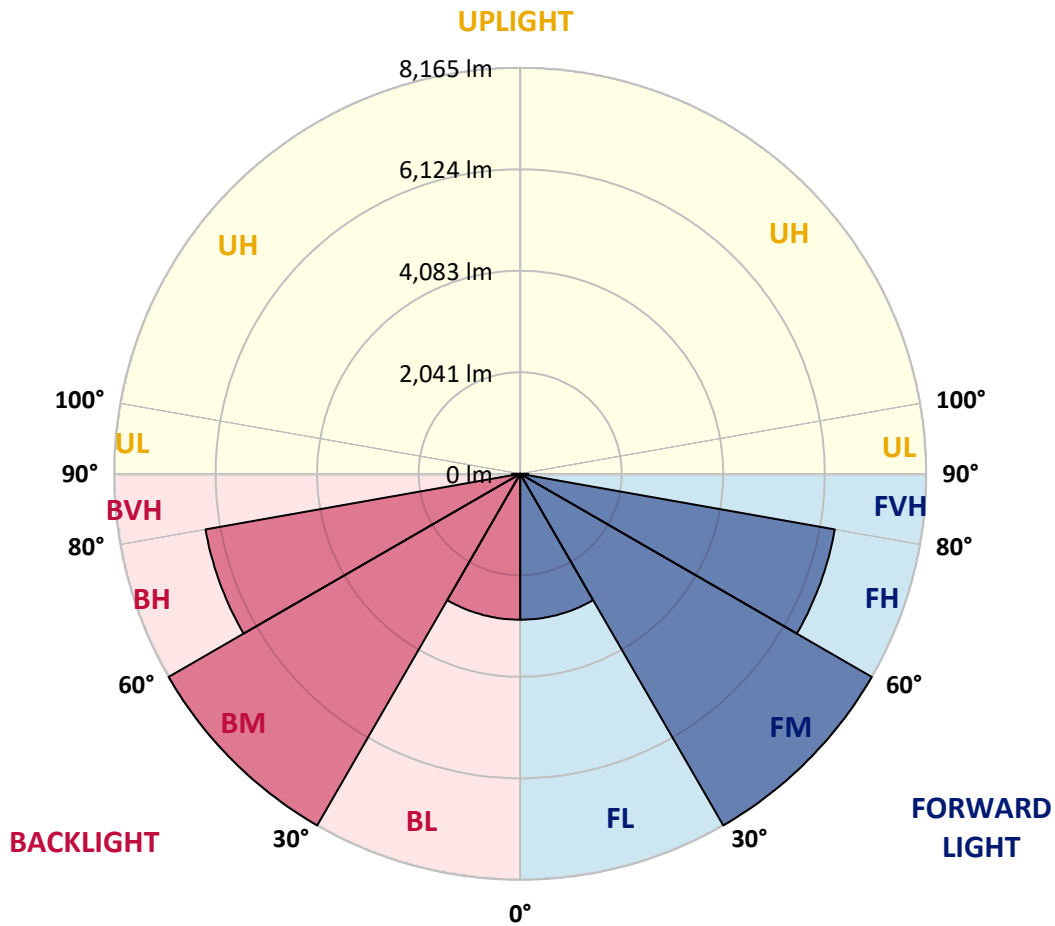
CATALOG NUMBER: GALN-SB5D-930-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2934.2 | 8.3 | | | |
| FM (30°-60°) | 8165.3 | 23.1 | | | |
| FH (60°-80°) | 6425.8 | 18.2 | | | G3/7500 |
| FVH (80°-90°) | 162.2 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2934.2 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 8165.3 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 6425.8 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 162.2 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 6610.2 | 6610.2 | 6610.2 | 6610.2 | 6610.2 | 6610.2 | 6610.2 | 6610.2 | 6610.2 | 6610.2 |
| 2.5° | 6615.8 | 6623.4 | 6623.4 | 6617.7 | 6630.9 | 6619.6 | 6619.6 | 6614.0 | 6619.6 | 6614.0 |
| 5° | 6649.7 | 6659.1 | 6662.8 | 6661.0 | 6677.9 | 6668.5 | 6668.5 | 6661.0 | 6662.8 | 6657.2 |
| 7.5° | 6713.6 | 6726.8 | 6734.3 | 6743.7 | 6768.1 | 6756.8 | 6749.3 | 6726.8 | 6717.4 | 6702.3 |
| 10° | 6734.3 | 6749.3 | 6773.8 | 6822.6 | 6879.0 | 6880.9 | 6858.4 | 6802.0 | 6758.7 | 6724.9 |
| 12.5° | 6670.4 | 6691.0 | 6741.8 | 6841.4 | 6967.4 | 7018.2 | 6982.4 | 6888.4 | 6803.8 | 6743.7 |
| 15° | 6589.5 | 6612.1 | 6689.2 | 6839.6 | 7025.7 | 7144.1 | 7140.4 | 7016.3 | 6880.9 | 6786.9 |
| 17.5° | 6463.5 | 6486.1 | 6597.0 | 6807.6 | 7070.8 | 7266.3 | 7319.0 | 7191.1 | 7001.2 | 6875.3 |
| 20° | 6236.1 | 6256.7 | 6410.9 | 6706.1 | 7085.8 | 7396.0 | 7533.3 | 7420.5 | 7183.6 | 7012.5 |
| 22.5° | 5940.9 | 5972.9 | 6153.3 | 6531.2 | 7050.1 | 7531.4 | 7777.7 | 7700.6 | 7396.0 | 7159.2 |
| 25° | 5625.1 | 5658.9 | 5869.5 | 6316.9 | 6958.0 | 7629.2 | 8067.2 | 8018.3 | 7636.7 | 7341.5 |
| 27.5° | 5352.5 | 5388.2 | 5617.5 | 6104.5 | 6815.1 | 7666.8 | 8353.0 | 8377.4 | 7928.1 | 7542.7 |
| 30° | 5138.1 | 5172.0 | 5416.4 | 5933.4 | 6630.9 | 7629.2 | 8603.0 | 8772.2 | 8225.1 | 7717.5 |
| 32.5° | 4903.1 | 4946.4 | 5203.9 | 5724.7 | 6412.8 | 7538.9 | 8821.1 | 9199.0 | 8569.2 | 7905.5 |
| 35° | 4606.1 | 4645.6 | 4916.3 | 5438.9 | 6127.0 | 7394.2 | 9003.5 | 9672.8 | 9061.8 | 8191.3 |
| 37.5° | 4245.1 | 4282.7 | 4551.6 | 5081.7 | 5843.1 | 7191.1 | 9142.6 | 10206.7 | 9648.3 | 8603.0 |
| 40° | 3882.3 | 3918.0 | 4169.9 | 4683.2 | 5502.9 | 6931.7 | 9191.5 | 10729.3 | 10321.4 | 9168.9 |
| 42.5° | 3549.5 | 3581.5 | 3812.7 | 4290.2 | 5121.2 | 6600.8 | 9127.6 | 11184.3 | 10924.9 | 9563.7 |
| 45° | 3243.1 | 3271.3 | 3476.2 | 3921.7 | 4724.5 | 6198.5 | 8935.8 | 11673.1 | 11643.0 | 9845.7 |
| 47.5° | 2893.4 | 2921.6 | 3134.0 | 3564.5 | 4327.8 | 5726.6 | 8610.5 | 12154.4 | 12641.3 | 10484.9 |
| 50° | 2466.6 | 2491.0 | 2709.1 | 3152.8 | 3916.1 | 5224.6 | 8159.3 | 12532.3 | 13901.0 | 11453.2 |
| 52.5° | 1960.9 | 1987.2 | 2199.6 | 2643.3 | 3427.3 | 4685.0 | 7565.2 | 12778.6 | 15356.1 | 12866.9 |
| 55° | 1458.9 | 1477.7 | 1661.9 | 2060.5 | 2821.9 | 4070.3 | 6820.8 | 12848.1 | 17006.8 | 14799.6 |
| 57.5° | 1058.5 | 1069.7 | 1188.2 | 1485.2 | 2139.5 | 3301.3 | 5916.5 | 12667.7 | 18971.4 | 17277.5 |
| 60° | 857.3 | 861.1 | 896.8 | 1028.4 | 1487.1 | 2432.8 | 4824.2 | 12047.2 | 21103.4 | 20471.7 |
| 62.5° | 778.3 | 778.3 | 787.7 | 823.5 | 1005.8 | 1605.5 | 3502.5 | 10761.3 | 23389.5 | 24508.1 |
| 65° | 723.8 | 723.8 | 727.6 | 744.5 | 793.4 | 1022.7 | 2210.9 | 8666.9 | 25316.5 | 29236.4 |
| 67.5° | 674.9 | 676.8 | 674.9 | 680.6 | 708.8 | 755.8 | 1282.2 | 5986.0 | 26354.3 | 34135.7 |
| 70° | 624.2 | 627.9 | 618.5 | 618.5 | 641.1 | 643.0 | 802.8 | 3282.5 | 25493.2 | 38241.7 |
| 72.5° | 564.0 | 569.6 | 554.6 | 550.8 | 567.8 | 560.2 | 603.5 | 1575.5 | 21887.3 | 39467.5 |
| 75° | 511.4 | 518.9 | 485.0 | 475.6 | 475.6 | 470.0 | 490.7 | 808.4 | 14205.5 | 32195.5 |
| 77.5° | 464.4 | 479.4 | 424.9 | 394.8 | 387.3 | 370.4 | 400.4 | 494.4 | 6213.5 | 15115.5 |
| 80° | 383.5 | 404.2 | 349.7 | 314.0 | 300.8 | 282.0 | 315.8 | 345.9 | 1848.1 | 3510.0 |
| 82.5° | 285.8 | 295.2 | 248.2 | 223.7 | 212.4 | 199.3 | 236.9 | 240.6 | 601.6 | 1242.7 |
| 85° | 182.4 | 186.1 | 152.3 | 131.6 | 126.0 | 120.3 | 150.4 | 131.6 | 229.4 | 913.7 |
| 87.5° | 63.9 | 73.3 | 58.3 | 52.6 | 56.4 | 47.0 | 69.6 | 39.5 | 63.9 | 644.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

6610.2
6614.0
6657.2
6702.3
6719.2
6734.3
6771.9
6854.6
6980.6
7115.9
7281.4
7478.8
7625.4
7789.0
8061.6
8430.1
8984.7
9326.8
9526.1
10116.5
10990.7
12297.3
14087.1
16380.7
19341.8
22994.7
27322.5
32069.6
37698.4
40896.3
34436.5
14801.5
3361.5
1404.4
1327.3
799.0
0.0

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