

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: P957140

Luminaire Tested: **GALN-SB9C-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-830-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63117 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

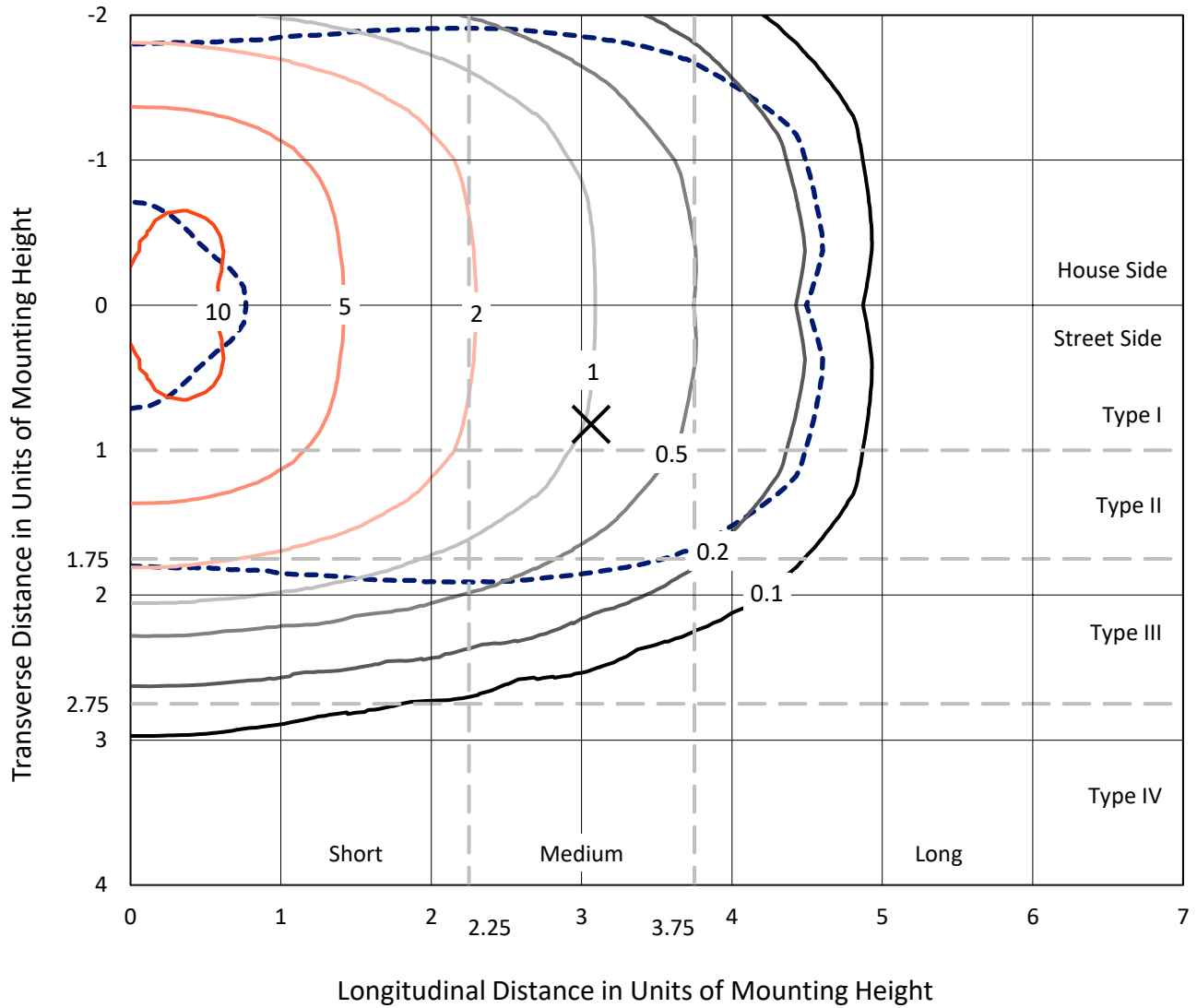
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

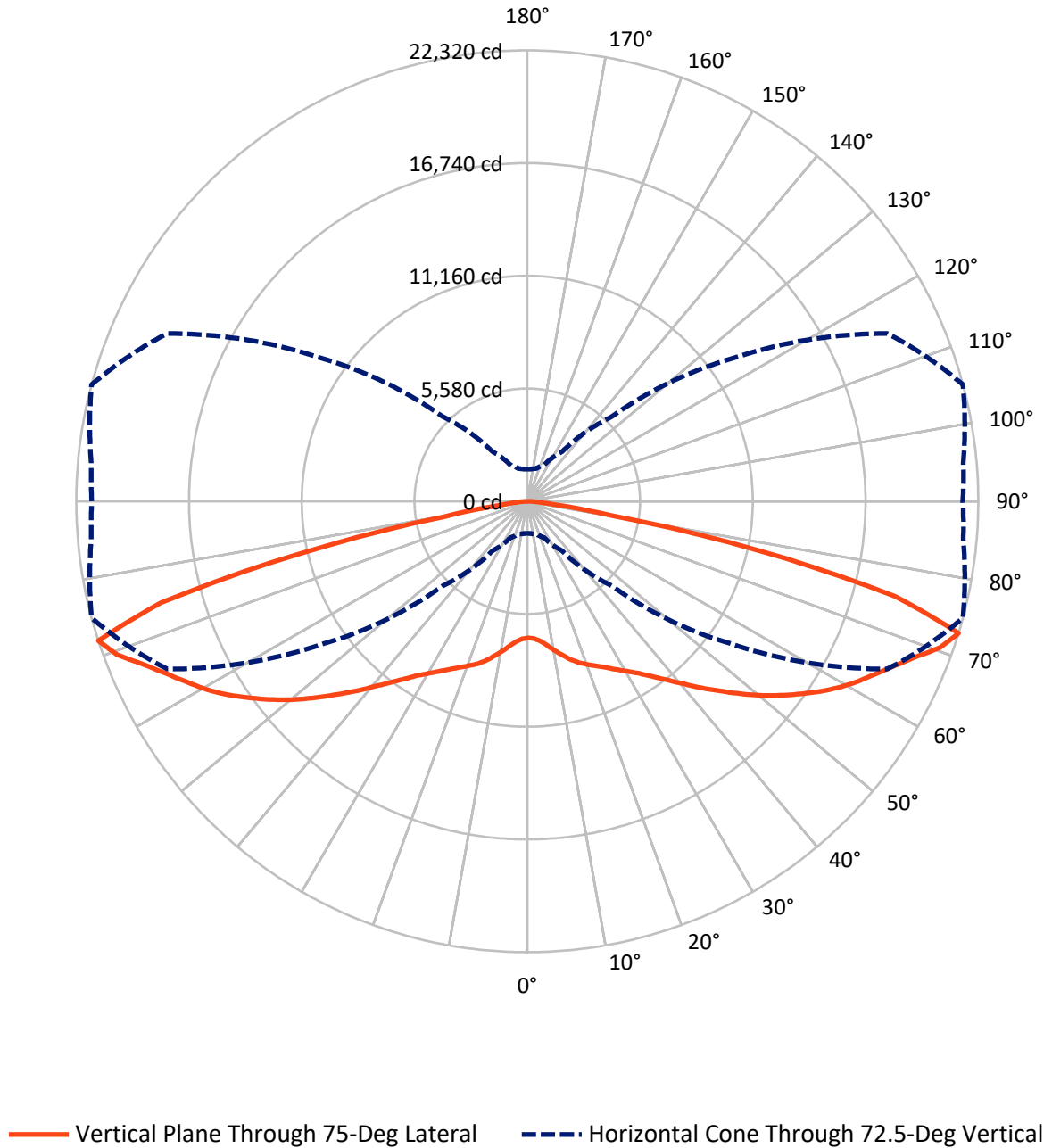
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 31558.5 | 0.0 | 31558.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 31558.5 | 0.0 | 31558.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 63117.0 | 0.0 | 63117.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 662.3 | 1.0 |
| 10°-20° | 2184.4 | 3.5 |
| 20°-30° | 4220.9 | 6.7 |
| 30°-40° | 7127.2 | 11.3 |
| 40°-50° | 11302.9 | 17.9 |
| 50°-60° | 15133.3 | 24.0 |
| 60°-70° | 14402.0 | 22.8 |
| 70°-80° | 7515.2 | 11.9 |
| 80°-90° | 568.9 | 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° | 63117.0 | 100.0 |
| 0°-180° | 63117.0 | 100.0 |

Coefficient of Utilization

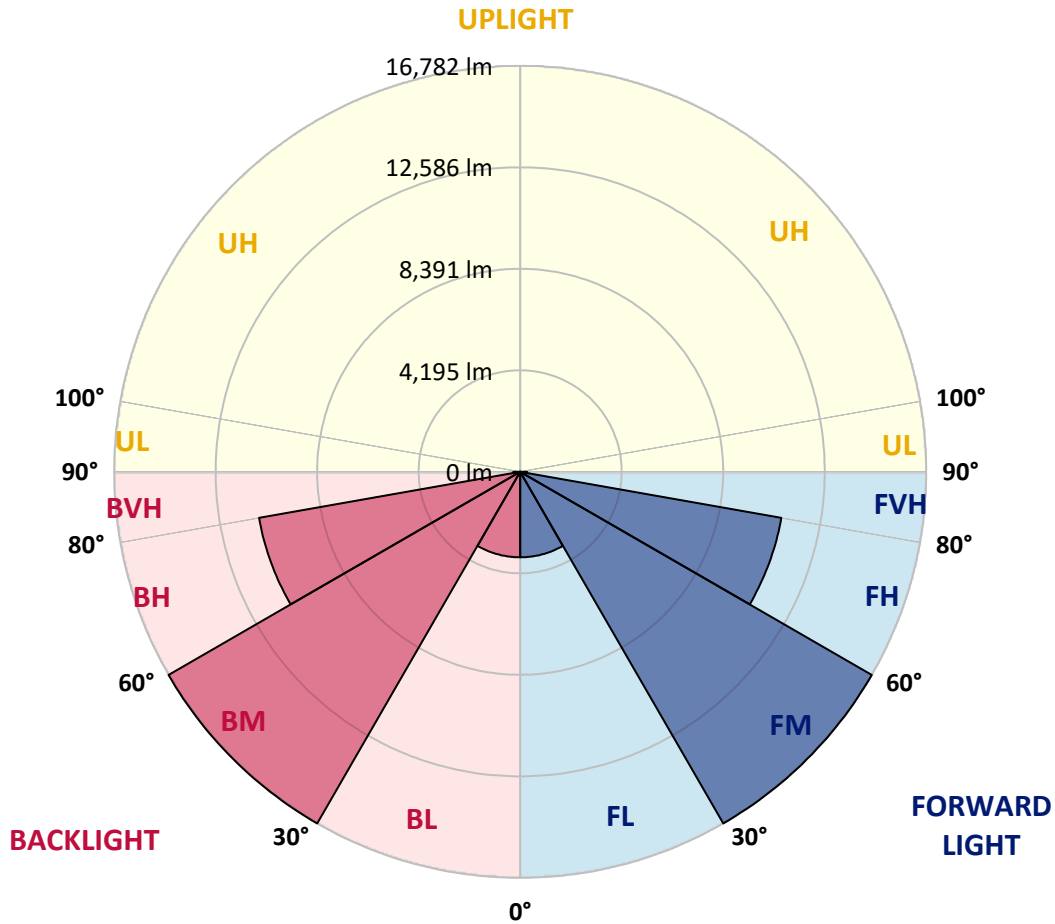


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3533.8 | 5.6 | | | |
| FM (30°-60°) | 16781.7 | 26.6 | | | |
| FH (60°-80°) | 10958.6 | 17.4 | | | G4/12000 |
| FVH (80°-90°) | 284.4 | 0.5 | | | G3/500 |
| BL (0°-30°) | 3533.8 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 16781.7 | 26.6 | B5 | | |
| BH (60°-80°) | 10958.6 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 284.4 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6761.0 | 6761.0 | 6761.0 | 6761.0 | 6761.0 | 6761.0 | 6761.0 | 6761.0 | 6761.0 | 6761.0 |
| 2.5° | 6761.0 | 6754.5 | 6761.0 | 6767.4 | 6764.2 | 6764.2 | 6780.3 | 6790.0 | 6809.3 | 6806.1 |
| 5° | 6715.8 | 6712.6 | 6738.4 | 6767.4 | 6790.0 | 6828.6 | 6877.0 | 6912.4 | 6957.5 | 6967.2 |
| 7.5° | 6693.3 | 6683.6 | 6728.7 | 6780.3 | 6851.2 | 6947.9 | 7041.3 | 7138.0 | 7215.3 | 7241.1 |
| 10° | 6709.4 | 6712.6 | 6773.9 | 6870.5 | 6983.3 | 7118.7 | 7250.8 | 7415.1 | 7524.7 | 7550.5 |
| 12.5° | 6783.5 | 6777.1 | 6880.2 | 7034.9 | 7189.6 | 7360.4 | 7515.0 | 7695.5 | 7814.7 | 7876.0 |
| 15° | 6918.9 | 6906.0 | 7051.0 | 7279.8 | 7505.4 | 7705.2 | 7830.9 | 8001.7 | 8140.2 | 8217.6 |
| 17.5° | 7080.0 | 7086.4 | 7276.6 | 7573.0 | 7869.5 | 8095.1 | 8214.3 | 8301.4 | 8407.7 | 8475.4 |
| 20° | 7363.6 | 7376.5 | 7589.2 | 7940.4 | 8278.8 | 8536.6 | 8633.3 | 8601.1 | 8630.1 | 8681.6 |
| 22.5° | 7743.8 | 7750.3 | 7988.8 | 8369.0 | 8723.5 | 9007.1 | 9071.5 | 8939.4 | 8858.9 | 8894.3 |
| 25° | 8185.3 | 8227.2 | 8465.7 | 8855.6 | 9219.8 | 9490.5 | 9519.5 | 9319.7 | 9119.9 | 9129.6 |
| 27.5° | 8723.5 | 8762.2 | 9003.9 | 9390.6 | 9761.2 | 9996.4 | 9993.2 | 9725.7 | 9432.5 | 9358.4 |
| 30° | 9306.8 | 9348.7 | 9596.8 | 9996.4 | 10341.2 | 10547.5 | 10502.4 | 10183.3 | 9764.4 | 9625.8 |
| 32.5° | 9999.6 | 10025.4 | 10276.8 | 10676.4 | 10995.4 | 11159.8 | 11066.3 | 10673.2 | 10151.1 | 9993.2 |
| 35° | 10837.5 | 10876.2 | 11063.1 | 11440.1 | 11720.5 | 11855.9 | 11697.9 | 11233.9 | 10647.4 | 10470.1 |
| 37.5° | 11794.6 | 11768.8 | 11981.5 | 12316.7 | 12548.7 | 12632.5 | 12416.6 | 11865.5 | 11214.6 | 11005.1 |
| 40° | 12793.6 | 12780.7 | 13012.8 | 13335.0 | 13460.7 | 13512.3 | 13193.2 | 12590.6 | 11868.7 | 11643.2 |
| 42.5° | 13699.2 | 13689.5 | 14002.1 | 14359.8 | 14511.3 | 14453.2 | 14050.4 | 13360.8 | 12626.0 | 12368.2 |
| 45° | 14424.2 | 14411.4 | 14794.8 | 15297.6 | 15594.0 | 15497.4 | 14956.0 | 14211.6 | 13393.0 | 13125.5 |
| 47.5° | 14981.7 | 14988.2 | 15400.7 | 16022.6 | 16541.5 | 16576.9 | 15880.8 | 15078.4 | 14237.3 | 13934.4 |
| 50° | 15384.6 | 15403.9 | 15845.4 | 16535.0 | 17244.0 | 17556.6 | 16825.1 | 15967.9 | 15110.7 | 14769.1 |
| 52.5° | 15484.5 | 15519.9 | 16051.6 | 16860.5 | 17695.2 | 18291.3 | 17785.4 | 16821.8 | 15938.9 | 15613.4 |
| 55° | 14952.7 | 15023.6 | 15697.2 | 16834.7 | 17972.3 | 18774.7 | 18629.7 | 17688.7 | 16773.5 | 16438.4 |
| 57.5° | 13731.4 | 13831.3 | 14617.6 | 16103.2 | 17911.1 | 19106.6 | 19283.9 | 18520.1 | 17608.1 | 17285.9 |
| 60° | 12020.2 | 12139.4 | 12893.5 | 14514.5 | 17047.4 | 19229.1 | 19744.7 | 19329.0 | 18375.1 | 18062.5 |
| 62.5° | 9438.9 | 9593.6 | 10495.9 | 12397.2 | 15223.4 | 18658.7 | 20137.9 | 20060.5 | 19064.7 | 18674.8 |
| 65° | 6055.2 | 6219.6 | 7170.2 | 9416.4 | 12790.4 | 16912.1 | 20260.3 | 20772.7 | 19793.1 | 19248.4 |
| 67.5° | 3651.2 | 3725.3 | 4195.8 | 5707.2 | 9348.7 | 14279.2 | 19222.7 | 21562.2 | 20643.8 | 19967.1 |
| 70° | 2336.4 | 2378.3 | 2658.6 | 3351.5 | 5285.0 | 10418.6 | 16651.0 | 21710.5 | 21675.0 | 20705.0 |
| 72.5° | 1585.5 | 1598.4 | 1672.5 | 1985.1 | 2990.5 | 5919.9 | 12281.2 | 19654.5 | 22319.5 | 21655.7 |
| 75° | 1160.1 | 1231.0 | 1350.3 | 1405.0 | 1698.3 | 2958.3 | 7038.1 | 13808.7 | 18810.2 | 19100.2 |
| 77.5° | 863.6 | 866.9 | 1031.2 | 1095.7 | 1211.7 | 1575.8 | 2977.7 | 7708.4 | 11678.6 | 12261.9 |
| 80° | 731.5 | 692.9 | 689.6 | 883.0 | 912.0 | 982.9 | 1330.9 | 2661.8 | 4182.9 | 2536.2 |
| 82.5° | 609.1 | 567.2 | 512.4 | 689.6 | 622.0 | 602.6 | 576.8 | 1082.8 | 1330.9 | 654.2 |
| 85° | 425.4 | 406.0 | 386.7 | 451.2 | 354.5 | 302.9 | 277.1 | 505.9 | 560.7 | 277.1 |
| 87.5° | 183.7 | 190.1 | 193.4 | 199.8 | 148.2 | 106.3 | 106.3 | 141.8 | 141.8 | 109.6 |
| 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°
6761.0
6802.9
6967.2
7247.6
7576.3
7901.8
8246.6
8507.6
8720.3
8920.1
9145.7
9380.9
9641.9
10031.9
10495.9
11043.8
11717.3
12432.7
13186.8
14024.6
14872.2
15697.2
16531.8
17360.0
18130.2
18719.9
19316.1
20018.6
20698.6
21552.6
18397.7
10937.4
1917.4
557.5
244.9
80.6
0.0

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