

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: P942003

Luminaire Tested: **GALN-SB5D-760-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942003
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-760-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53800 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

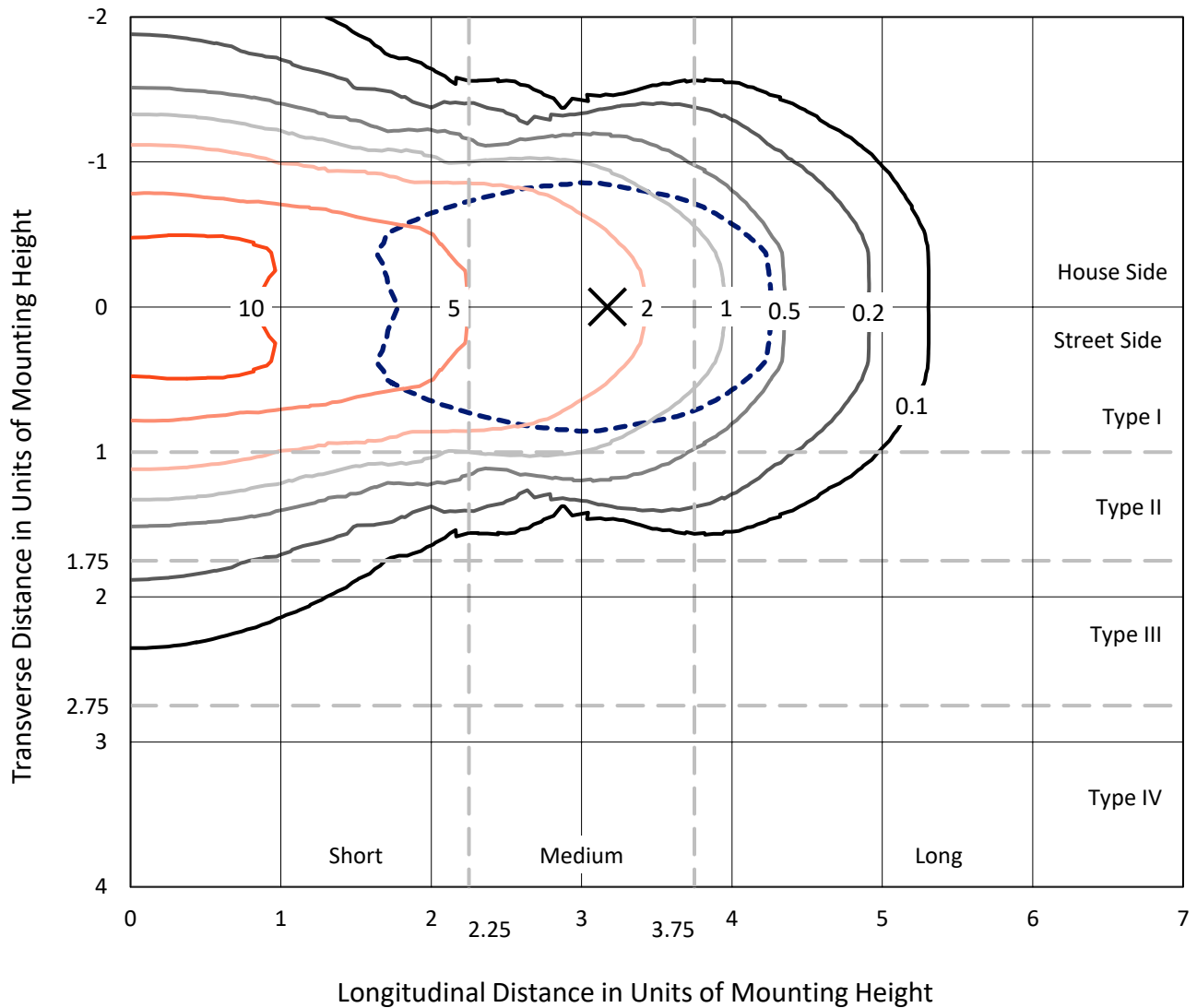
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

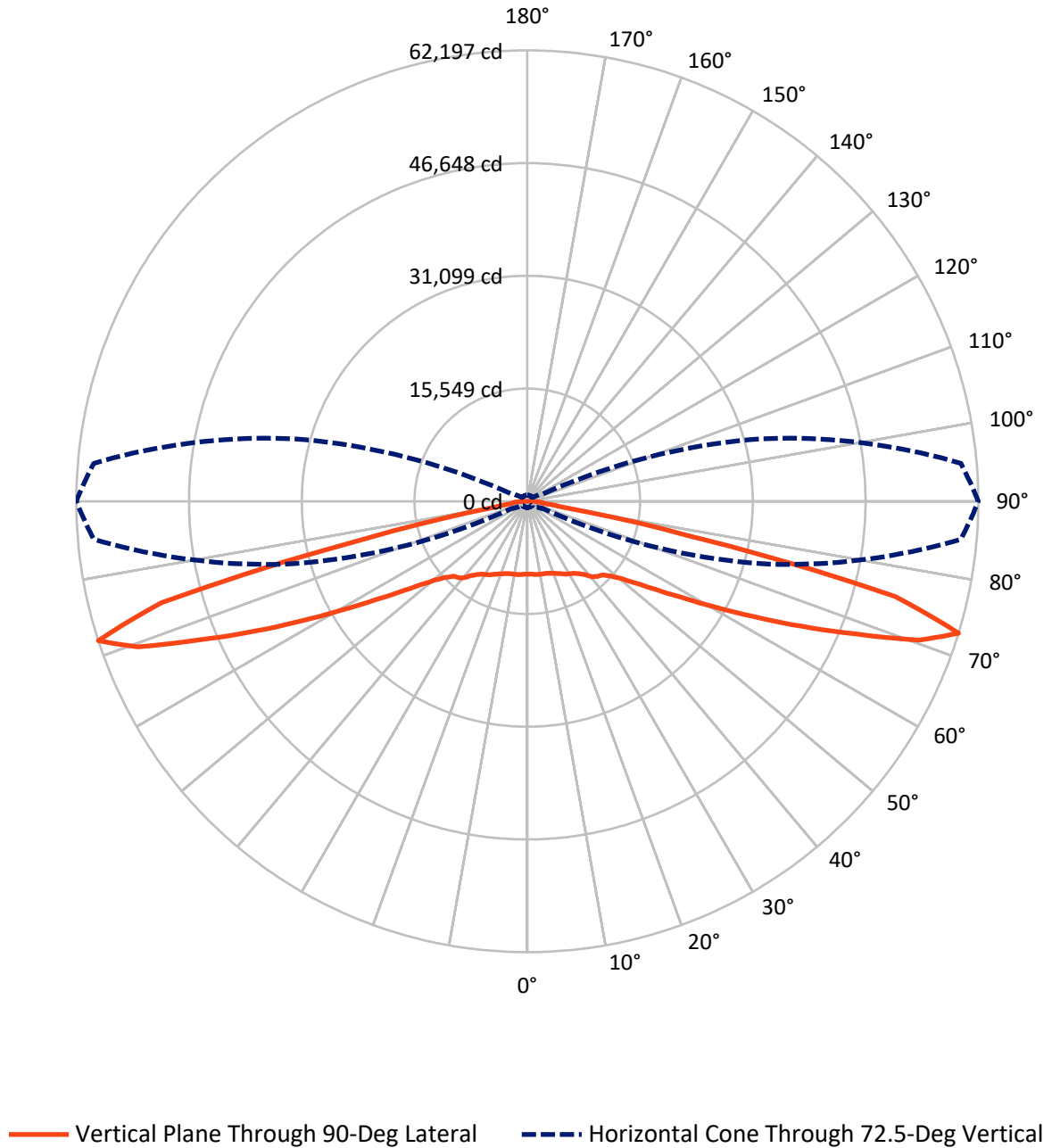
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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 | 26900.0 | 0.0 | 26900.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 26900.0 | 0.0 | 26900.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 53800.0 | 0.0 | 53800.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 974.8 | 1.8 |
| 10°-20° | 2980.5 | 5.5 |
| 20°-30° | 4969.6 | 9.2 |
| 30°-40° | 6834.8 | 12.7 |
| 40°-50° | 8347.2 | 15.5 |
| 50°-60° | 9654.4 | 17.9 |
| 60°-70° | 11511.3 | 21.4 |
| 70°-80° | 8034.1 | 14.9 |
| 80°-90° | 493.5 | 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° | 53800.0 | 100.0 |
| 0°-180° | 53800.0 | 100.0 |

Coefficient of Utilization



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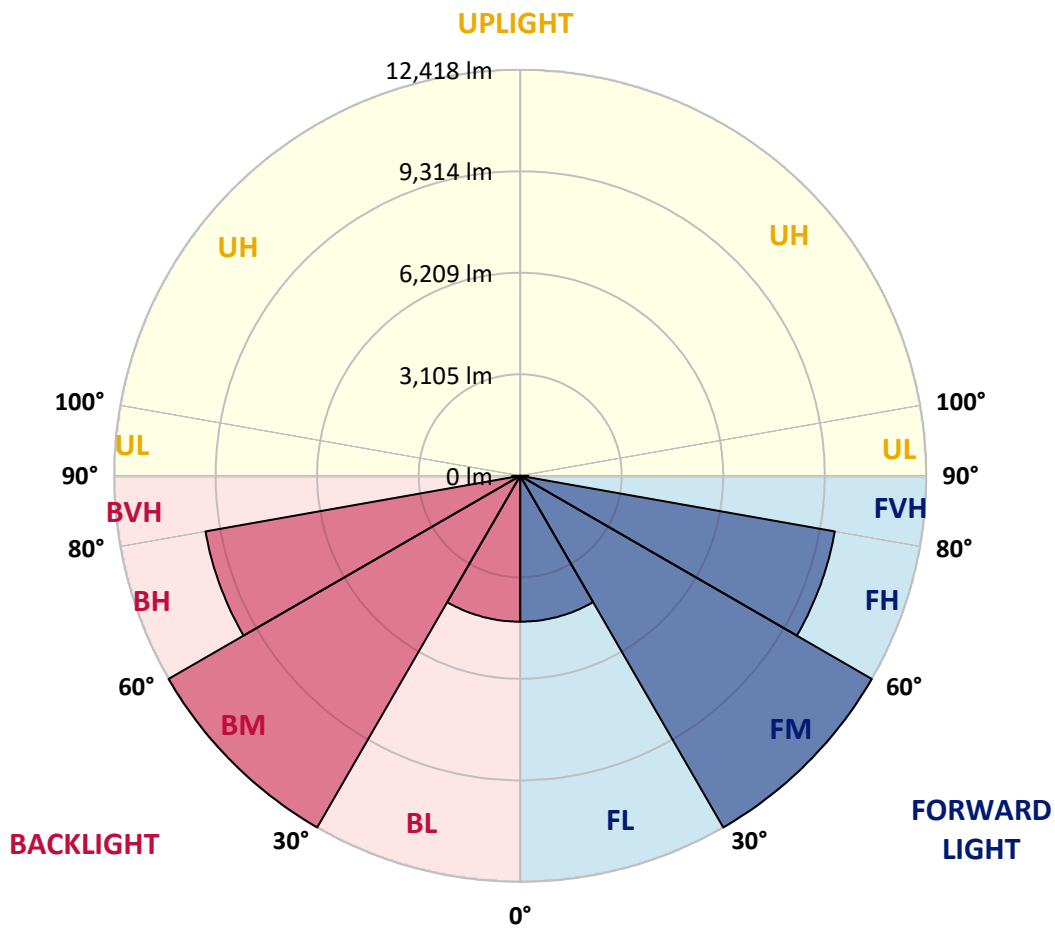
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4462.4 | 8.3 | | | |
| FM (30°-60°) | 12418.2 | 23.1 | | | |
| FH (60°-80°) | 9772.7 | 18.2 | | | G4/12000 |
| FVH (80°-90°) | 246.7 | 0.5 | | | G3/500 |
| BL (0°-30°) | 4462.4 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 12418.2 | 23.1 | B5 | | |
| BH (60°-80°) | 9772.7 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 246.7 | 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 I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10053.1 | 10053.1 | 10053.1 | 10053.1 | 10053.1 | 10053.1 | 10053.1 | 10053.1 | 10053.1 | 10053.1 |
| 2.5° | 10061.7 | 10073.1 | 10073.1 | 10064.5 | 10084.5 | 10067.4 | 10067.4 | 10058.8 | 10067.4 | 10058.8 |
| 5° | 10113.1 | 10127.4 | 10133.2 | 10130.3 | 10156.0 | 10141.7 | 10141.7 | 10130.3 | 10133.2 | 10124.6 |
| 7.5° | 10210.4 | 10230.4 | 10241.8 | 10256.1 | 10293.3 | 10276.1 | 10264.7 | 10230.4 | 10216.1 | 10193.2 |
| 10° | 10241.8 | 10264.7 | 10301.9 | 10376.2 | 10462.0 | 10464.8 | 10430.5 | 10344.7 | 10279.0 | 10227.5 |
| 12.5° | 10144.6 | 10176.0 | 10253.2 | 10404.8 | 10596.4 | 10673.6 | 10619.2 | 10476.3 | 10347.6 | 10256.1 |
| 15° | 10021.6 | 10056.0 | 10173.2 | 10401.9 | 10685.0 | 10865.1 | 10859.4 | 10670.7 | 10464.8 | 10321.9 |
| 17.5° | 9830.1 | 9864.4 | 10033.1 | 10353.3 | 10753.6 | 11051.0 | 11131.0 | 10936.6 | 10647.8 | 10456.3 |
| 20° | 9484.1 | 9515.6 | 9750.0 | 10198.9 | 10776.5 | 11248.3 | 11457.0 | 11285.4 | 10925.2 | 10665.0 |
| 22.5° | 9035.2 | 9083.8 | 9358.3 | 9933.0 | 10722.2 | 11454.1 | 11828.7 | 11711.5 | 11248.3 | 10888.0 |
| 25° | 8554.9 | 8606.3 | 8926.6 | 9607.1 | 10582.1 | 11602.8 | 12269.0 | 12194.7 | 11614.2 | 11165.3 |
| 27.5° | 8140.3 | 8194.6 | 8543.4 | 9284.0 | 10364.8 | 11660.0 | 12703.6 | 12740.8 | 12057.4 | 11471.3 |
| 30° | 7814.3 | 7865.8 | 8237.5 | 9023.8 | 10084.5 | 11602.8 | 13083.9 | 13341.2 | 12509.2 | 11737.2 |
| 32.5° | 7456.9 | 7522.7 | 7914.4 | 8706.4 | 9752.9 | 11465.6 | 13415.6 | 13990.3 | 13032.4 | 12023.1 |
| 35° | 7005.1 | 7065.2 | 7476.9 | 8271.8 | 9318.3 | 11245.4 | 13692.9 | 14710.8 | 13781.6 | 12457.7 |
| 37.5° | 6456.2 | 6513.4 | 6922.2 | 7728.5 | 8886.5 | 10936.6 | 13904.5 | 15522.8 | 14673.6 | 13083.9 |
| 40° | 5904.3 | 5958.7 | 6341.8 | 7122.4 | 8369.0 | 10542.0 | 13978.8 | 16317.7 | 15697.2 | 13944.5 |
| 42.5° | 5398.3 | 5446.9 | 5798.5 | 6524.8 | 7788.6 | 10038.8 | 13881.6 | 17009.6 | 16615.1 | 14545.0 |
| 45° | 4932.2 | 4975.1 | 5286.7 | 5964.4 | 7185.3 | 9426.9 | 13590.0 | 17753.0 | 17707.3 | 14973.9 |
| 47.5° | 4400.4 | 4443.3 | 4766.4 | 5421.1 | 6582.0 | 8709.3 | 13095.3 | 18485.0 | 19225.5 | 15946.0 |
| 50° | 3751.3 | 3788.5 | 4120.2 | 4795.0 | 5955.8 | 7945.8 | 12409.1 | 19059.7 | 21141.2 | 17418.5 |
| 52.5° | 2982.2 | 3022.2 | 3345.3 | 4020.1 | 5212.4 | 7125.2 | 11505.6 | 19434.3 | 23354.3 | 19568.7 |
| 55° | 2218.8 | 2247.4 | 2527.6 | 3133.7 | 4291.7 | 6190.3 | 10373.3 | 19540.1 | 25864.7 | 22508.0 |
| 57.5° | 1609.8 | 1626.9 | 1807.0 | 2258.8 | 3253.8 | 5020.8 | 8998.0 | 19265.6 | 28852.6 | 26276.4 |
| 60° | 1303.8 | 1309.5 | 1363.9 | 1564.0 | 2261.7 | 3699.9 | 7336.8 | 18322.0 | 32095.0 | 31134.3 |
| 62.5° | 1183.7 | 1183.7 | 1198.0 | 1252.3 | 1529.7 | 2441.8 | 5326.8 | 16366.3 | 35571.8 | 37273.1 |
| 65° | 1100.8 | 1100.8 | 1106.5 | 1132.3 | 1206.6 | 1555.4 | 3362.5 | 13181.1 | 38502.6 | 44464.1 |
| 67.5° | 1026.5 | 1029.3 | 1026.5 | 1035.0 | 1077.9 | 1149.4 | 1950.0 | 9103.8 | 40080.9 | 51915.3 |
| 70° | 949.3 | 955.0 | 940.7 | 940.7 | 975.0 | 977.9 | 1220.9 | 4992.2 | 38771.3 | 58159.9 |
| 72.5° | 857.8 | 866.4 | 843.5 | 837.8 | 863.5 | 852.1 | 917.8 | 2396.0 | 33287.3 | 60024.1 |
| 75° | 777.7 | 789.2 | 737.7 | 723.4 | 723.4 | 714.8 | 746.3 | 1229.5 | 21604.4 | 48964.5 |
| 77.5° | 706.2 | 729.1 | 646.2 | 600.4 | 589.0 | 563.3 | 609.0 | 752.0 | 9449.8 | 22988.3 |
| 80° | 583.3 | 614.7 | 531.8 | 477.5 | 457.5 | 428.9 | 480.4 | 526.1 | 2810.6 | 5338.2 |
| 82.5° | 434.6 | 448.9 | 377.4 | 340.2 | 323.1 | 303.1 | 360.3 | 366.0 | 915.0 | 1890.0 |
| 85° | 277.3 | 283.1 | 231.6 | 200.1 | 191.6 | 183.0 | 228.7 | 200.1 | 348.8 | 1389.6 |
| 87.5° | 97.2 | 111.5 | 88.6 | 80.1 | 85.8 | 71.5 | 105.8 | 60.0 | 97.2 | 980.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

10053.1
10058.8
10124.6
10193.2
10218.9
10241.8
10299.0
10424.8
10616.4
10822.2
11073.8
11374.1
11597.1
11845.8
12260.4
12820.8
13664.3
14184.7
14487.8
15385.6
16715.1
18702.3
21424.3
24912.6
29415.9
34971.4
41553.4
48773.0
57333.5
62197.1
52372.8
22510.8
5112.3
2135.9
2018.6
1215.2
0.0

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