

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: P944803

Luminaire Tested: **GALN-SB9D-935-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944803
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-SB9D-935-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63786 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

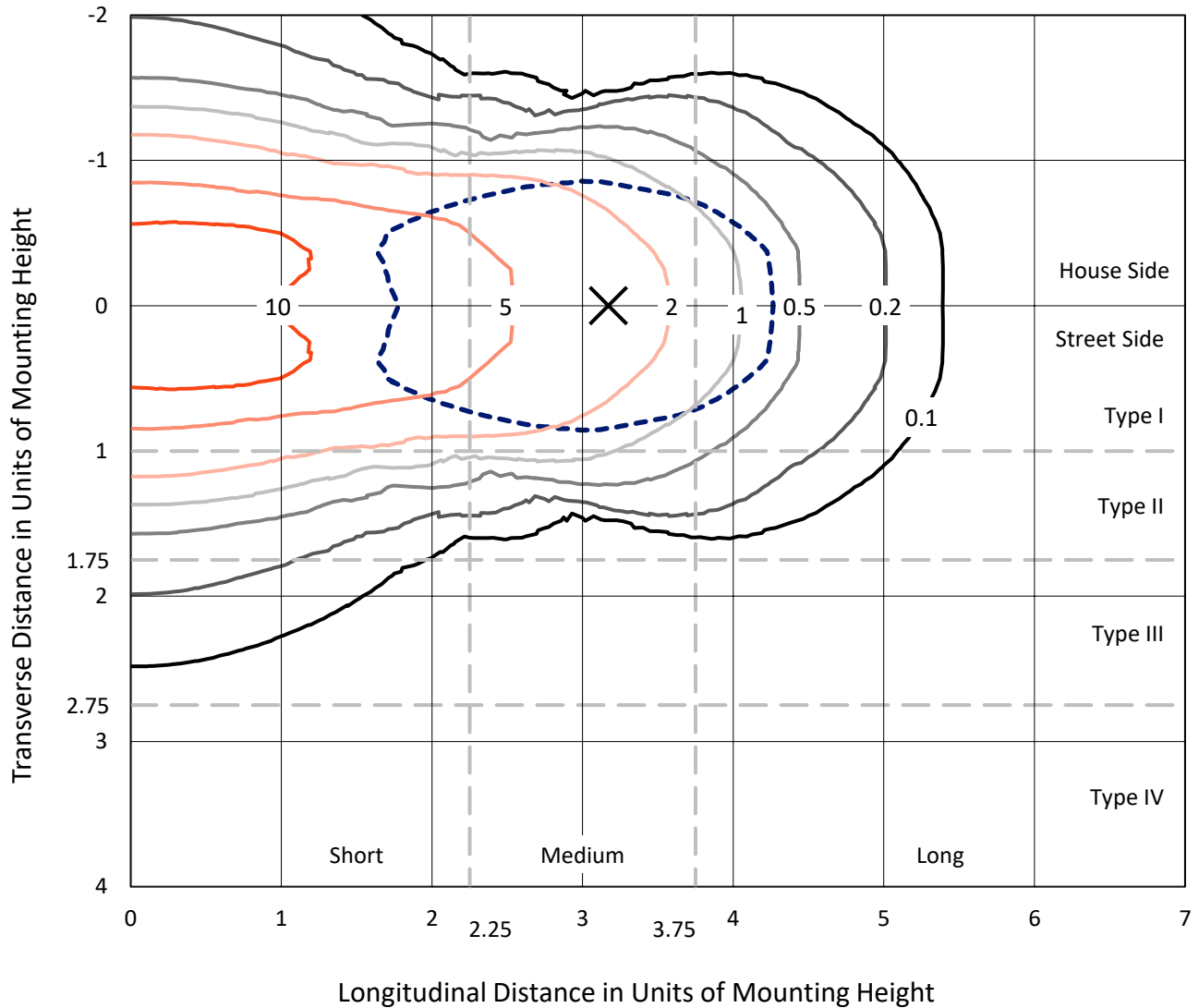
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

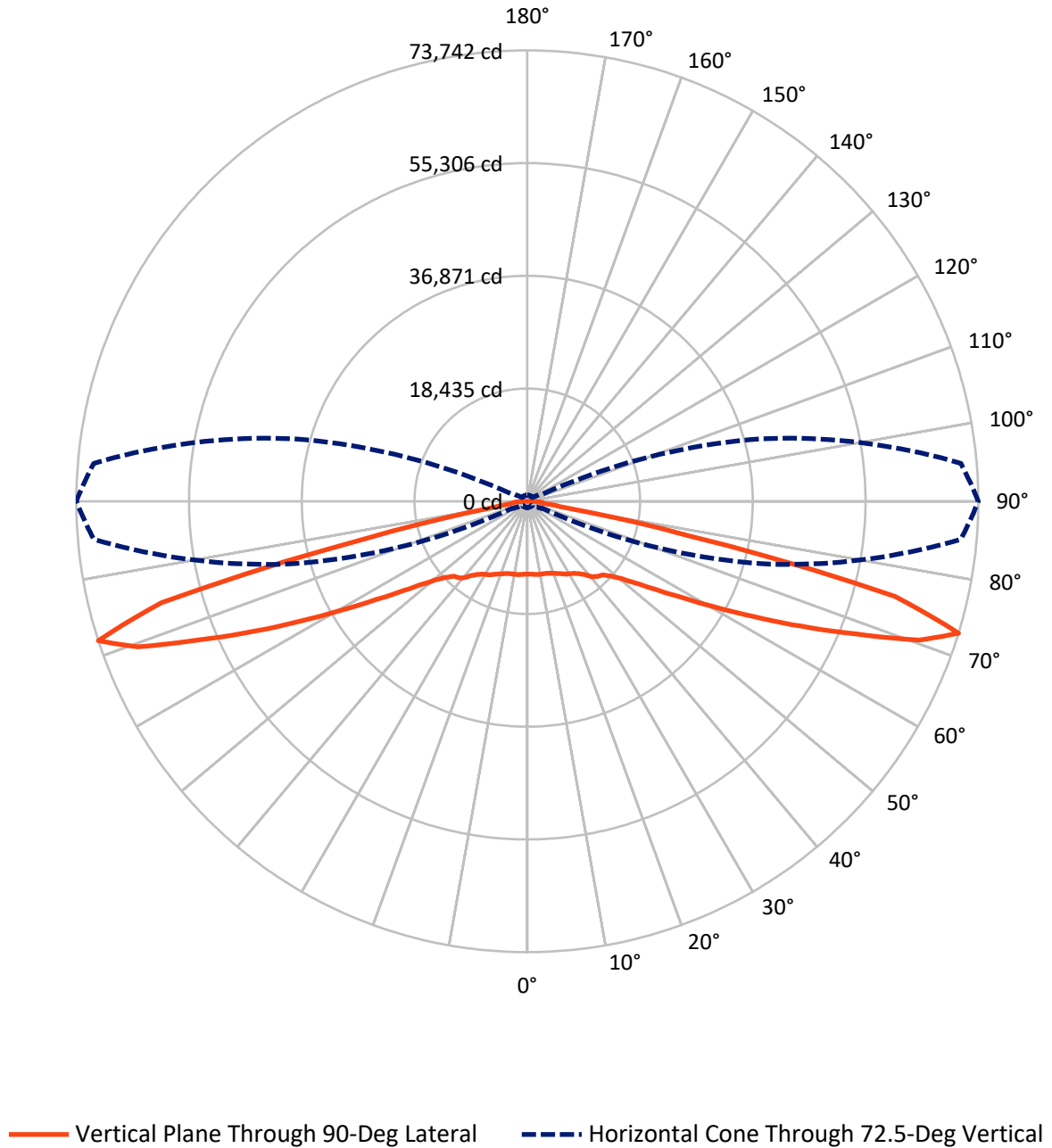
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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 | 31893.0 | 0.0 | 31893.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 31893.0 | 0.0 | 31893.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 63786.0 | 0.0 | 63786.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1155.7 | 1.8 |
| 10°-20° | 3533.7 | 5.5 |
| 20°-30° | 5892.1 | 9.2 |
| 30°-40° | 8103.4 | 12.7 |
| 40°-50° | 9896.5 | 15.5 |
| 50°-60° | 11446.4 | 17.9 |
| 60°-70° | 13647.9 | 21.4 |
| 70°-80° | 9525.3 | 14.9 |
| 80°-90° | 585.1 | 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° | 63786.0 | 100.0 |
| 0°-180° | 63786.0 | 100.0 |

Coefficient of Utilization



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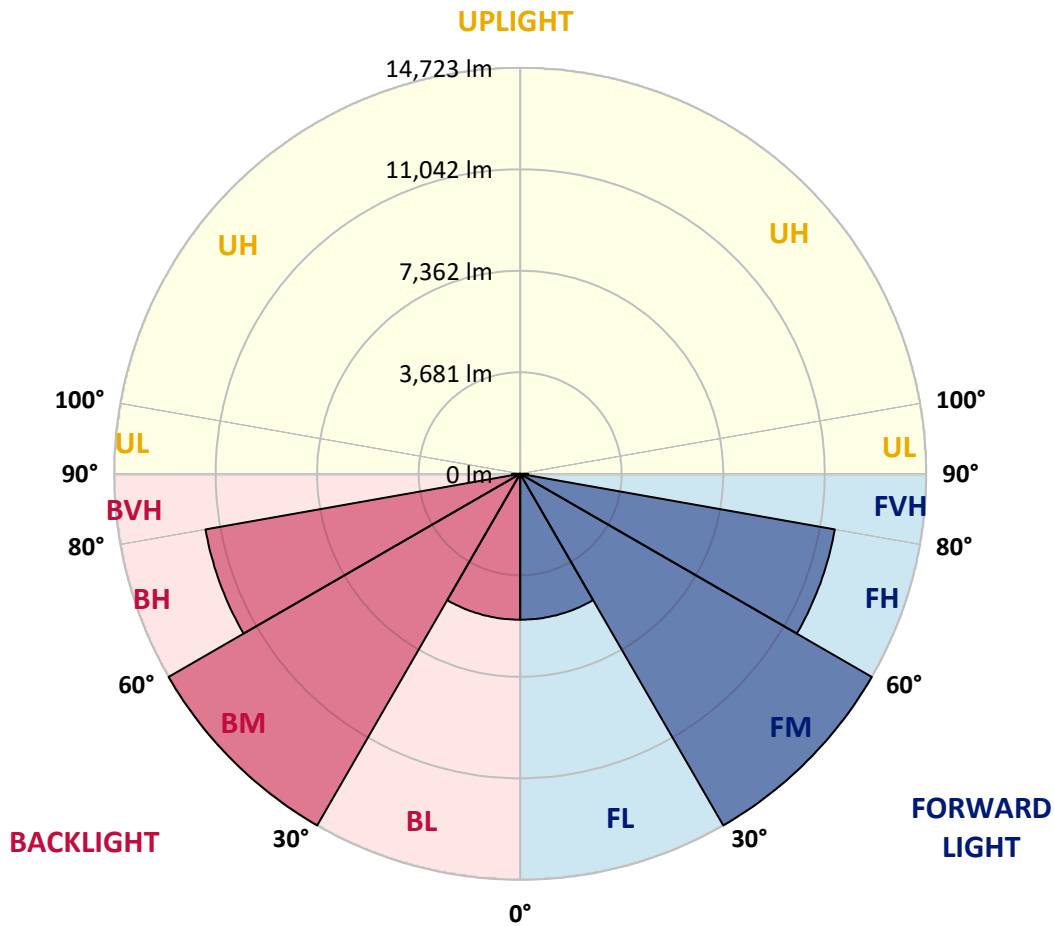
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 5290.7 | 8.3 | | | |
| FM (30°-60°) | 14723.1 | 23.1 | | | |
| FH (60°-80°) | 11586.6 | 18.2 | | | G4/12000 |
| FVH (80°-90°) | 292.5 | 0.5 | | | G3/500 |
| BL (0°-30°) | 5290.7 | 8.3 | B5 | | |
| BM (30°-60°) | 14723.1 | 23.1 | B5 | | |
| BH (60°-80°) | 11586.6 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 292.5 | 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° | 11919.1 | 11919.1 | 11919.1 | 11919.1 | 11919.1 | 11919.1 | 11919.1 | 11919.1 | 11919.1 | 11919.1 |
| 2.5° | 11929.3 | 11942.8 | 11942.8 | 11932.6 | 11956.4 | 11936.0 | 11936.0 | 11925.9 | 11936.0 | 11925.9 |
| 5° | 11990.3 | 12007.2 | 12014.0 | 12010.6 | 12041.1 | 12024.2 | 12024.2 | 12010.6 | 12014.0 | 12003.8 |
| 7.5° | 12105.5 | 12129.3 | 12142.8 | 12159.8 | 12203.8 | 12183.5 | 12169.9 | 12129.3 | 12112.3 | 12085.2 |
| 10° | 12142.8 | 12169.9 | 12214.0 | 12302.2 | 12403.9 | 12407.2 | 12366.6 | 12264.9 | 12186.9 | 12125.9 |
| 12.5° | 12027.6 | 12064.9 | 12156.4 | 12336.1 | 12563.2 | 12654.7 | 12590.3 | 12420.8 | 12268.3 | 12159.8 |
| 15° | 11881.8 | 11922.5 | 12061.5 | 12332.7 | 12668.3 | 12881.8 | 12875.1 | 12651.3 | 12407.2 | 12237.7 |
| 17.5° | 11654.7 | 11695.4 | 11895.4 | 12275.0 | 12749.6 | 13102.2 | 13197.1 | 12966.6 | 12624.2 | 12397.1 |
| 20° | 11244.5 | 11281.8 | 11559.8 | 12092.0 | 12776.7 | 13336.1 | 13583.6 | 13380.2 | 12953.0 | 12644.5 |
| 22.5° | 10712.3 | 10769.9 | 11095.3 | 11776.7 | 12712.3 | 13580.2 | 14024.3 | 13885.3 | 13336.1 | 12909.0 |
| 25° | 10142.8 | 10203.8 | 10583.4 | 11390.3 | 12546.2 | 13756.4 | 14546.3 | 14458.2 | 13770.0 | 13237.8 |
| 27.5° | 9651.2 | 9715.6 | 10129.2 | 11007.2 | 12288.6 | 13824.2 | 15061.6 | 15105.6 | 14295.4 | 13600.5 |
| 30° | 9264.8 | 9325.8 | 9766.5 | 10698.7 | 11956.4 | 13756.4 | 15512.4 | 15817.5 | 14831.1 | 13915.8 |
| 32.5° | 8841.0 | 8919.0 | 9383.4 | 10322.4 | 11563.1 | 13593.7 | 15905.7 | 16587.1 | 15451.4 | 14254.8 |
| 35° | 8305.4 | 8376.6 | 8864.7 | 9807.1 | 11047.9 | 13332.7 | 16234.5 | 17441.3 | 16339.6 | 14770.0 |
| 37.5° | 7654.5 | 7722.3 | 8207.1 | 9163.1 | 10536.0 | 12966.6 | 16485.4 | 18404.1 | 17397.3 | 15512.4 |
| 40° | 7000.3 | 7064.7 | 7518.9 | 8444.4 | 9922.4 | 12498.8 | 16573.5 | 19346.5 | 18610.9 | 16532.8 |
| 42.5° | 6400.2 | 6457.9 | 6874.8 | 7735.9 | 9234.2 | 11902.1 | 16458.2 | 20166.9 | 19699.0 | 17244.7 |
| 45° | 5847.7 | 5898.5 | 6268.0 | 7071.4 | 8519.0 | 11176.7 | 16112.5 | 21048.2 | 20994.0 | 17753.2 |
| 47.5° | 5217.1 | 5268.0 | 5651.1 | 6427.4 | 7803.7 | 10325.8 | 15526.0 | 21916.1 | 22794.1 | 18905.8 |
| 50° | 4447.6 | 4491.7 | 4884.9 | 5685.0 | 7061.3 | 9420.7 | 14712.4 | 22597.5 | 25065.3 | 20651.6 |
| 52.5° | 3535.7 | 3583.2 | 3966.2 | 4766.3 | 6179.9 | 8447.8 | 13641.2 | 23041.5 | 27689.2 | 23200.9 |
| 55° | 2630.6 | 2664.5 | 2996.7 | 3715.4 | 5088.3 | 7339.3 | 12298.8 | 23167.0 | 30665.5 | 26685.7 |
| 57.5° | 1908.5 | 1928.9 | 2142.5 | 2678.1 | 3857.8 | 5952.8 | 10668.2 | 22841.5 | 34208.1 | 31153.7 |
| 60° | 1545.8 | 1552.6 | 1617.0 | 1854.3 | 2681.5 | 4386.6 | 8698.6 | 21722.8 | 38052.3 | 36913.2 |
| 62.5° | 1403.4 | 1403.4 | 1420.4 | 1484.8 | 1813.6 | 2895.0 | 6315.5 | 19404.1 | 42174.5 | 44191.5 |
| 65° | 1305.1 | 1305.1 | 1311.9 | 1342.4 | 1430.6 | 1844.1 | 3986.6 | 15627.7 | 45649.2 | 52717.2 |
| 67.5° | 1217.0 | 1220.4 | 1217.0 | 1227.2 | 1278.0 | 1362.8 | 2312.0 | 10793.6 | 47520.4 | 61551.4 |
| 70° | 1125.5 | 1132.2 | 1115.3 | 1115.3 | 1156.0 | 1159.4 | 1447.5 | 5918.9 | 45967.8 | 68955.1 |
| 72.5° | 1017.0 | 1027.2 | 1000.0 | 993.3 | 1023.8 | 1010.2 | 1088.2 | 2840.8 | 39465.9 | 71165.4 |
| 75° | 922.1 | 935.6 | 874.6 | 857.7 | 857.7 | 847.5 | 884.8 | 1457.7 | 25614.5 | 58053.0 |
| 77.5° | 837.3 | 864.4 | 766.1 | 711.9 | 698.3 | 667.8 | 722.1 | 891.6 | 11203.8 | 27255.3 |
| 80° | 691.6 | 728.8 | 630.5 | 566.1 | 542.4 | 508.5 | 569.5 | 623.8 | 3332.3 | 6329.0 |
| 82.5° | 515.3 | 532.2 | 447.5 | 403.4 | 383.1 | 359.3 | 427.1 | 433.9 | 1084.8 | 2240.8 |
| 85° | 328.8 | 335.6 | 274.6 | 237.3 | 227.1 | 217.0 | 271.2 | 237.3 | 413.6 | 1647.5 |
| 87.5° | 115.3 | 132.2 | 105.1 | 94.9 | 101.7 | 84.7 | 125.4 | 71.2 | 115.3 | 1162.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

11919.1
11925.9
12003.8
12085.2
12115.7
12142.8
12210.6
12359.8
12586.9
12831.0
13129.3
13485.2
13749.7
14044.6
14536.1
15200.6
16200.6
16817.6
17176.9
18241.4
19817.7
22173.7
25400.9
29536.7
34875.9
41462.6
49266.2
57825.9
67975.4
73741.7
62093.8
26689.1
6061.2
2532.3
2393.3
1440.7
0.0

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