

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: STREETWORKS

Report Number: P846314

Luminaire Tested: **GLAN-SB1D-850-U-T1**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P846314  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1D-850-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8647 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

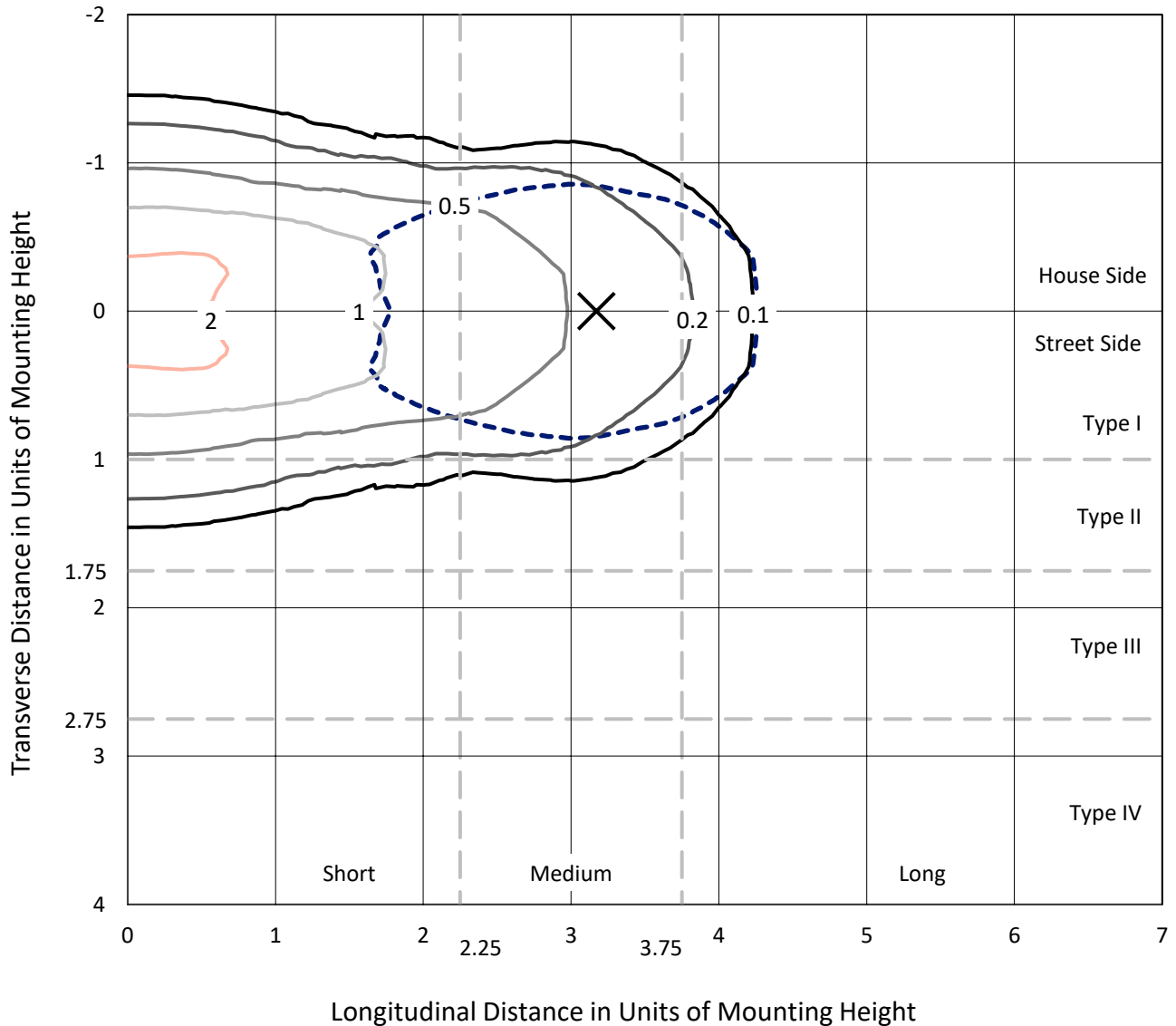
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

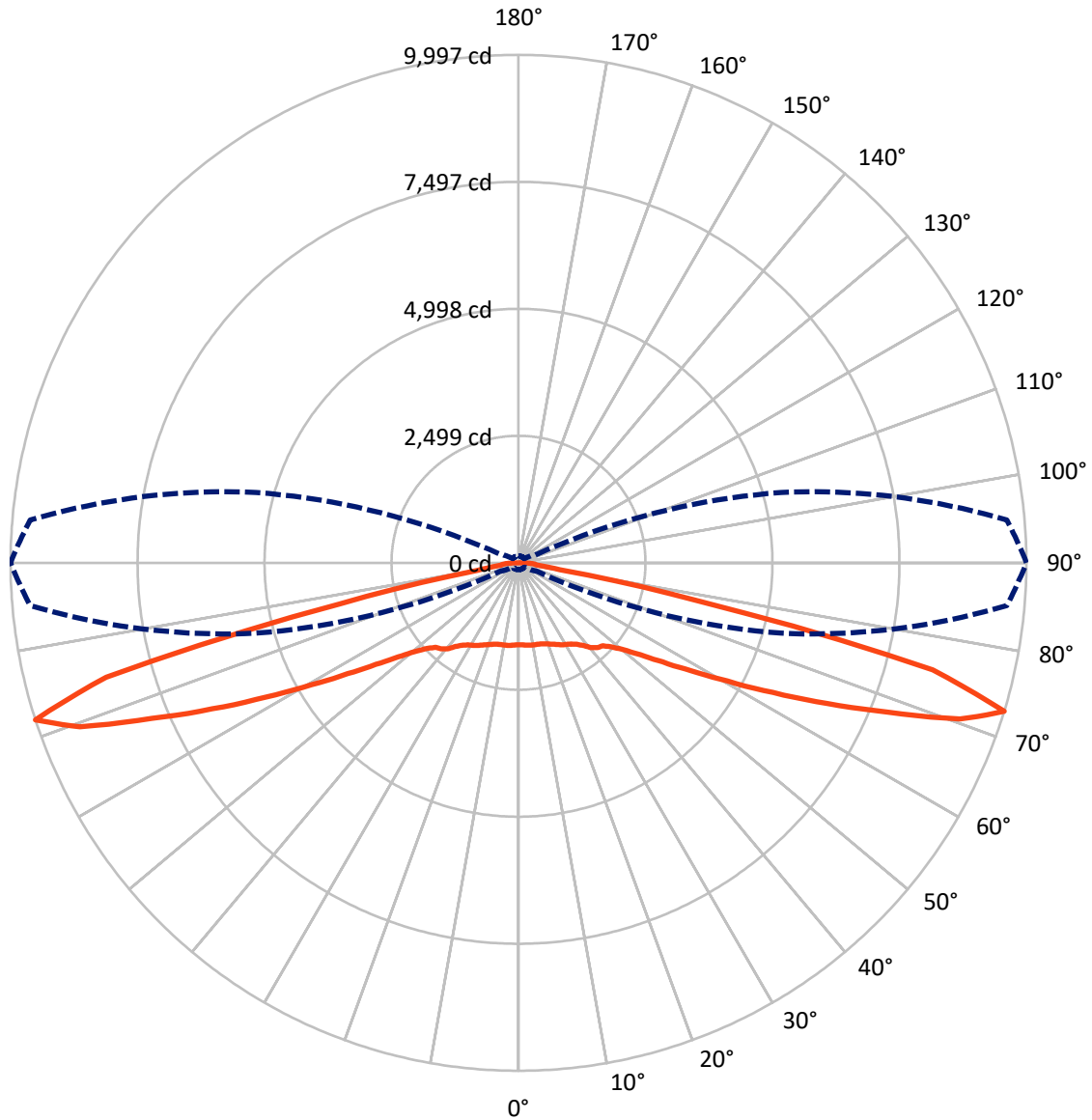
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4323.5   | 0.0    | 4323.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4323.5   | 0.0    | 4323.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8647.0   | 0.0    | 8647.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 156.7  | 1.8       |
| 10°-20°   | 479.0  | 5.5       |
| 20°-30°   | 798.7  | 9.2       |
| 30°-40°   | 1098.5 | 12.7      |
| 40°-50°   | 1341.6 | 15.5      |
| 50°-60°   | 1551.7 | 17.9      |
| 60°-70°   | 1850.1 | 21.4      |
| 70°-80°   | 1291.3 | 14.9      |
| 80°-90°   | 79.3   | 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°    | 8647.0 | 100.0     |
| 0°-180°   | 8647.0 | 100.0     |

**Coefficient of Utilization**



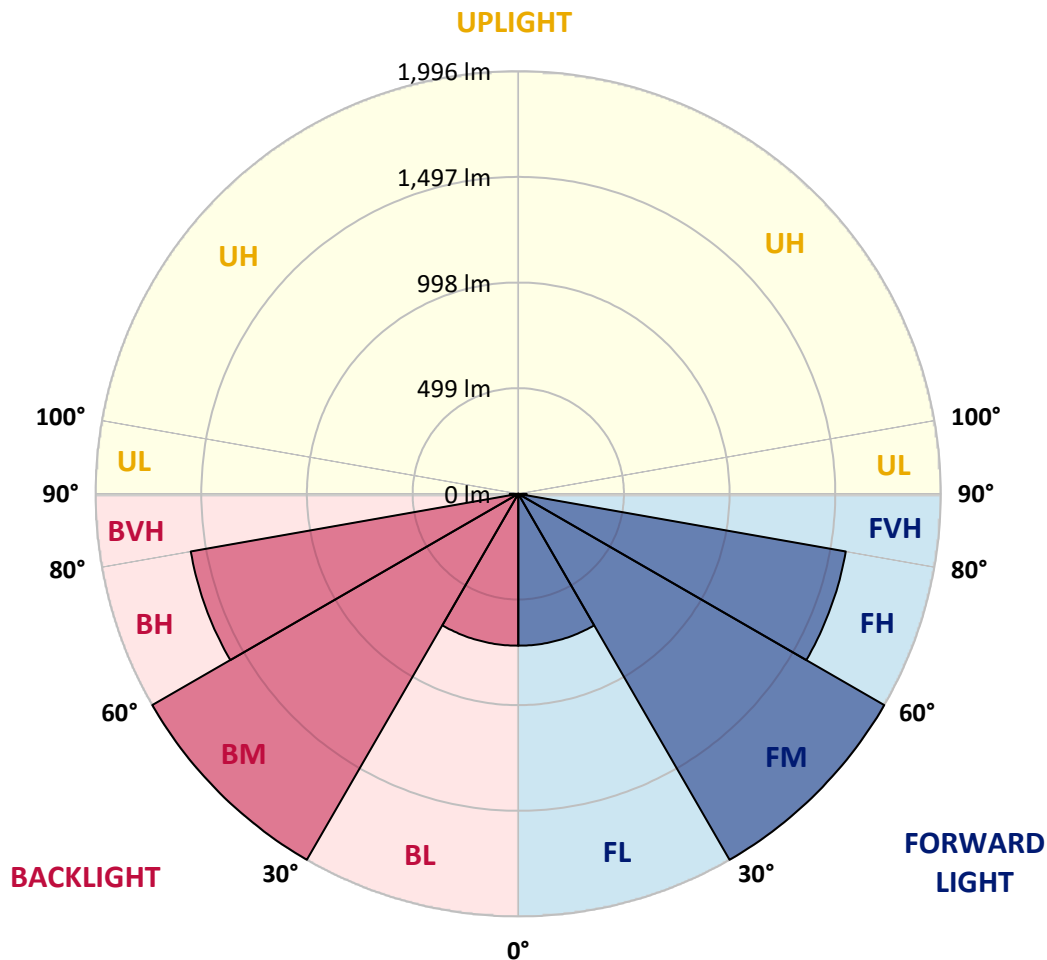
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 717.2  | 8.3       |                         |      |         |
| FM (30°-60°)   | 1995.9 | 23.1      |                         |      |         |
| FH (60°-80°)   | 1570.7 | 18.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 39.7   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 717.2  | 8.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1995.9 | 23.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1570.7 | 18.2      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 39.7   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 |
| 2.5°  | 1617.2 | 1619.0 | 1619.0 | 1617.6 | 1620.8 | 1618.1 | 1618.1 | 1616.7 | 1618.1 | 1616.7 |
| 5°    | 1625.4 | 1627.7 | 1628.7 | 1628.2 | 1632.3 | 1630.0 | 1630.0 | 1628.2 | 1628.7 | 1627.3 |
| 7.5°  | 1641.1 | 1644.3 | 1646.1 | 1648.4 | 1654.4 | 1651.6 | 1649.8 | 1644.3 | 1642.0 | 1638.3 |
| 10°   | 1646.1 | 1649.8 | 1655.8 | 1667.7 | 1681.5 | 1682.0 | 1676.4 | 1662.7 | 1652.1 | 1643.8 |
| 12.5° | 1630.5 | 1635.5 | 1648.0 | 1672.3 | 1703.1 | 1715.5 | 1706.8 | 1683.8 | 1663.1 | 1648.4 |
| 15°   | 1610.7 | 1616.2 | 1635.1 | 1671.8 | 1717.3 | 1746.3 | 1745.4 | 1715.0 | 1682.0 | 1659.0 |
| 17.5° | 1579.9 | 1585.5 | 1612.6 | 1664.0 | 1728.4 | 1776.2 | 1789.0 | 1757.8 | 1711.4 | 1680.6 |
| 20°   | 1524.3 | 1529.4 | 1567.1 | 1639.2 | 1732.0 | 1807.9 | 1841.4 | 1813.8 | 1755.9 | 1714.1 |
| 22.5° | 1452.2 | 1460.0 | 1504.1 | 1596.5 | 1723.3 | 1841.0 | 1901.2 | 1882.3 | 1807.9 | 1750.0 |
| 25°   | 1375.0 | 1383.3 | 1434.7 | 1544.1 | 1700.8 | 1864.9 | 1971.9 | 1960.0 | 1866.7 | 1794.5 |
| 27.5° | 1308.3 | 1317.1 | 1373.1 | 1492.2 | 1665.9 | 1874.1 | 2041.8 | 2047.8 | 1937.9 | 1843.7 |
| 30°   | 1256.0 | 1264.2 | 1324.0 | 1450.3 | 1620.8 | 1864.9 | 2102.9 | 2144.3 | 2010.5 | 1886.5 |
| 32.5° | 1198.5 | 1209.1 | 1272.0 | 1399.3 | 1567.5 | 1842.8 | 2156.2 | 2248.6 | 2094.6 | 1932.4 |
| 35°   | 1125.9 | 1135.6 | 1201.7 | 1329.5 | 1497.7 | 1807.4 | 2200.8 | 2364.4 | 2215.0 | 2002.3 |
| 37.5° | 1037.7 | 1046.9 | 1112.6 | 1242.2 | 1428.3 | 1757.8 | 2234.8 | 2494.9 | 2358.4 | 2102.9 |
| 40°   | 949.0  | 957.7  | 1019.3 | 1144.7 | 1345.1 | 1694.4 | 2246.7 | 2622.7 | 2522.9 | 2241.2 |
| 42.5° | 867.6  | 875.4  | 932.0  | 1048.7 | 1251.8 | 1613.5 | 2231.1 | 2733.9 | 2670.5 | 2337.7 |
| 45°   | 792.7  | 799.6  | 849.7  | 958.6  | 1154.9 | 1515.1 | 2184.2 | 2853.4 | 2846.0 | 2406.7 |
| 47.5° | 707.2  | 714.1  | 766.1  | 871.3  | 1057.9 | 1399.8 | 2104.7 | 2971.0 | 3090.0 | 2562.9 |
| 50°   | 602.9  | 608.9  | 662.2  | 770.7  | 957.2  | 1277.1 | 1994.5 | 3063.4 | 3397.9 | 2799.6 |
| 52.5° | 479.3  | 485.7  | 537.7  | 646.1  | 837.8  | 1145.2 | 1849.2 | 3123.6 | 3753.6 | 3145.2 |
| 55°   | 356.6  | 361.2  | 406.2  | 503.7  | 689.8  | 994.9  | 1667.3 | 3140.6 | 4157.1 | 3617.6 |
| 57.5° | 258.7  | 261.5  | 290.4  | 363.0  | 523.0  | 807.0  | 1446.2 | 3096.5 | 4637.3 | 4223.3 |
| 60°   | 209.6  | 210.5  | 219.2  | 251.4  | 363.5  | 594.7  | 1179.2 | 2944.8 | 5158.5 | 5004.1 |
| 62.5° | 190.3  | 190.3  | 192.6  | 201.3  | 245.9  | 392.5  | 856.1  | 2630.5 | 5717.3 | 5990.7 |
| 65°   | 176.9  | 176.9  | 177.8  | 182.0  | 193.9  | 250.0  | 540.4  | 2118.5 | 6188.3 | 7146.5 |
| 67.5° | 165.0  | 165.4  | 165.0  | 166.4  | 173.3  | 184.7  | 313.4  | 1463.2 | 6442.0 | 8344.1 |
| 70°   | 152.6  | 153.5  | 151.2  | 151.2  | 156.7  | 157.2  | 196.2  | 802.4  | 6231.5 | 9347.7 |
| 72.5° | 137.9  | 139.2  | 135.6  | 134.6  | 138.8  | 136.9  | 147.5  | 385.1  | 5350.1 | 9647.4 |
| 75°   | 125.0  | 126.8  | 118.6  | 116.3  | 116.3  | 114.9  | 119.9  | 197.6  | 3472.4 | 7869.8 |
| 77.5° | 113.5  | 117.2  | 103.9  | 96.5   | 94.7   | 90.5   | 97.9   | 120.9  | 1518.8 | 3694.8 |
| 80°   | 93.7   | 98.8   | 85.5   | 76.7   | 73.5   | 68.9   | 77.2   | 84.6   | 451.7  | 858.0  |
| 82.5° | 69.9   | 72.1   | 60.7   | 54.7   | 51.9   | 48.7   | 57.9   | 58.8   | 147.1  | 303.8  |
| 85°   | 44.6   | 45.5   | 37.2   | 32.2   | 30.8   | 29.4   | 36.8   | 32.2   | 56.1   | 223.3  |
| 87.5° | 15.6   | 17.9   | 14.2   | 12.9   | 13.8   | 11.5   | 17.0   | 9.7    | 15.6   | 157.6  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END C

90°

1615.8  
1616.7  
1627.3  
1638.3  
1642.4  
1646.1  
1655.3  
1675.5  
1706.3  
1739.4  
1779.8  
1828.1  
1863.9  
1903.9  
1970.6  
2060.6  
2196.2  
2279.8  
2328.5  
2472.8  
2686.5  
3005.9  
3443.4  
4004.1  
4727.9  
5620.8  
6678.7  
7839.0  
9214.9  
9996.6  
8417.6  
3618.0  
821.7  
343.3  
324.4  
195.3  
0.0

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