

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: P845941

Luminaire Tested: **GLAN-SB1B-830-U-5WQ**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P845941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1B-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4892 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

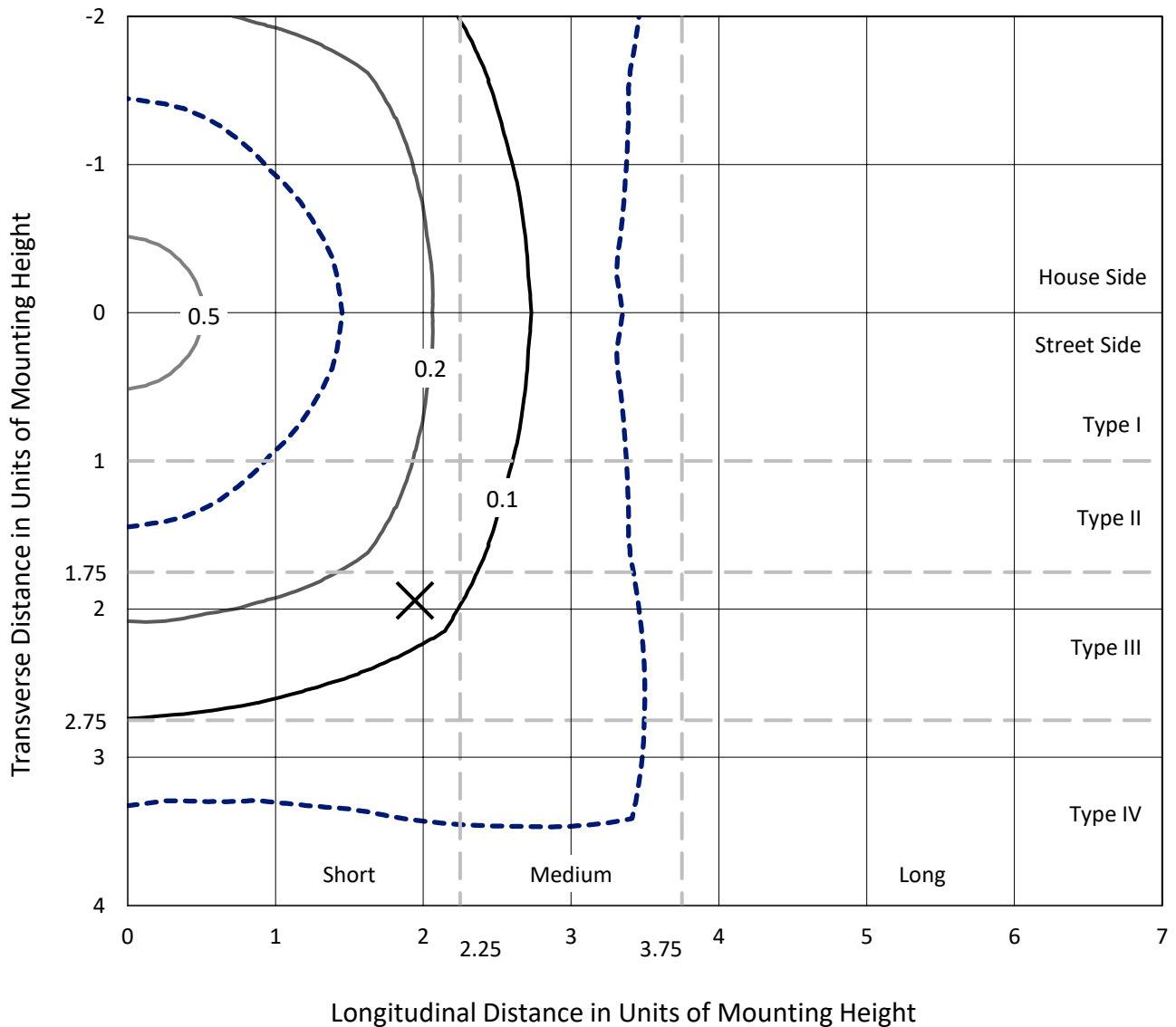
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

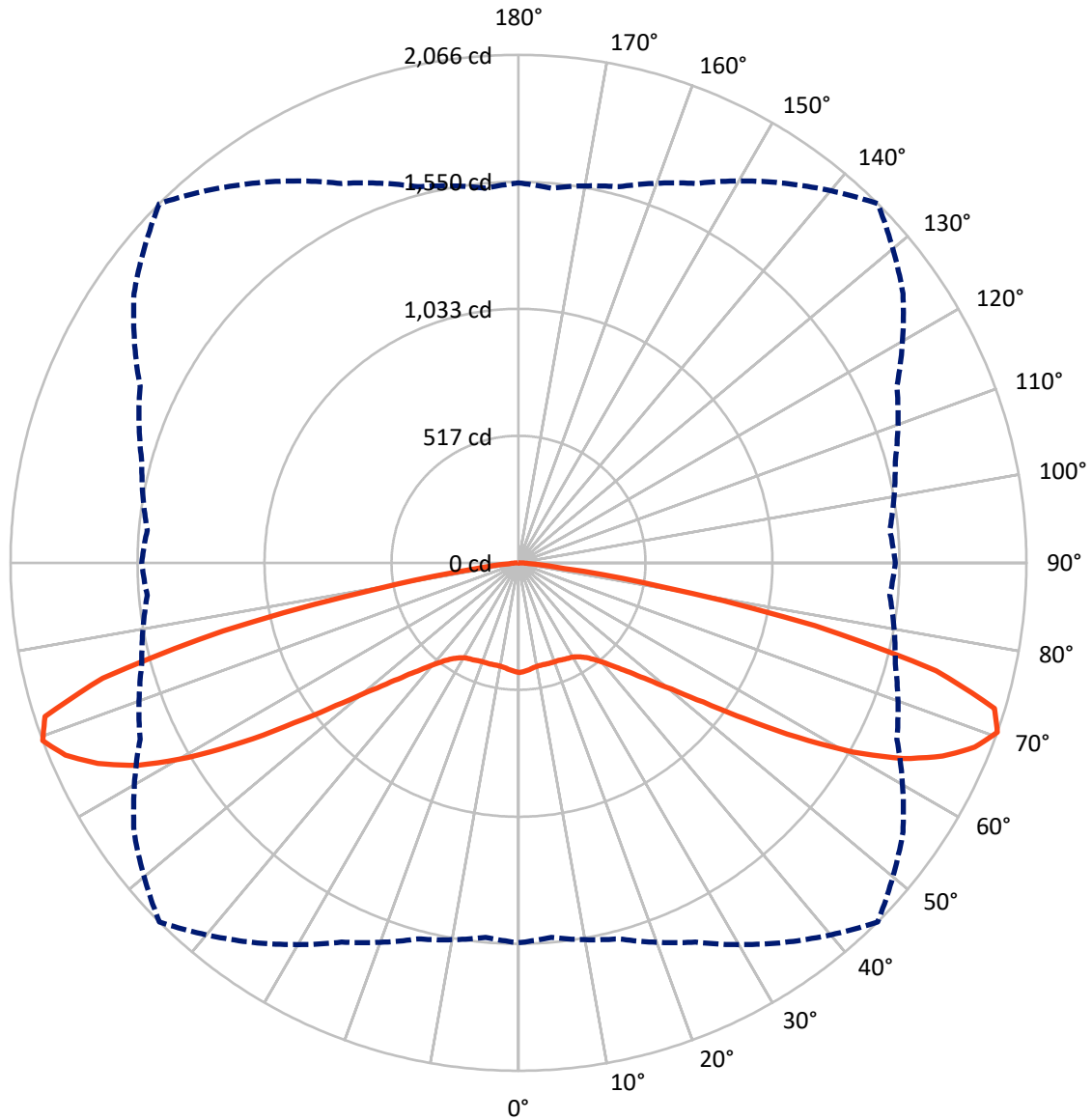
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2446.0   | 0.0    | 2446.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2446.0   | 0.0    | 2446.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4892.0   | 0.0    | 4892.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.5   | 0.8       |
| 10°-20°   | 121.9  | 2.5       |
| 20°-30°   | 202.8  | 4.1       |
| 30°-40°   | 306.8  | 6.3       |
| 40°-50°   | 509.8  | 10.4      |
| 50°-60°   | 961.9  | 19.7      |
| 60°-70°   | 1624.2 | 33.2      |
| 70°-80°   | 1067.3 | 21.8      |
| 80°-90°   | 55.9   | 1.1       |
| 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°    | 4892.0 | 100.0     |
| 0°-180°   | 4892.0 | 100.0     |

**Coefficient of Utilization**



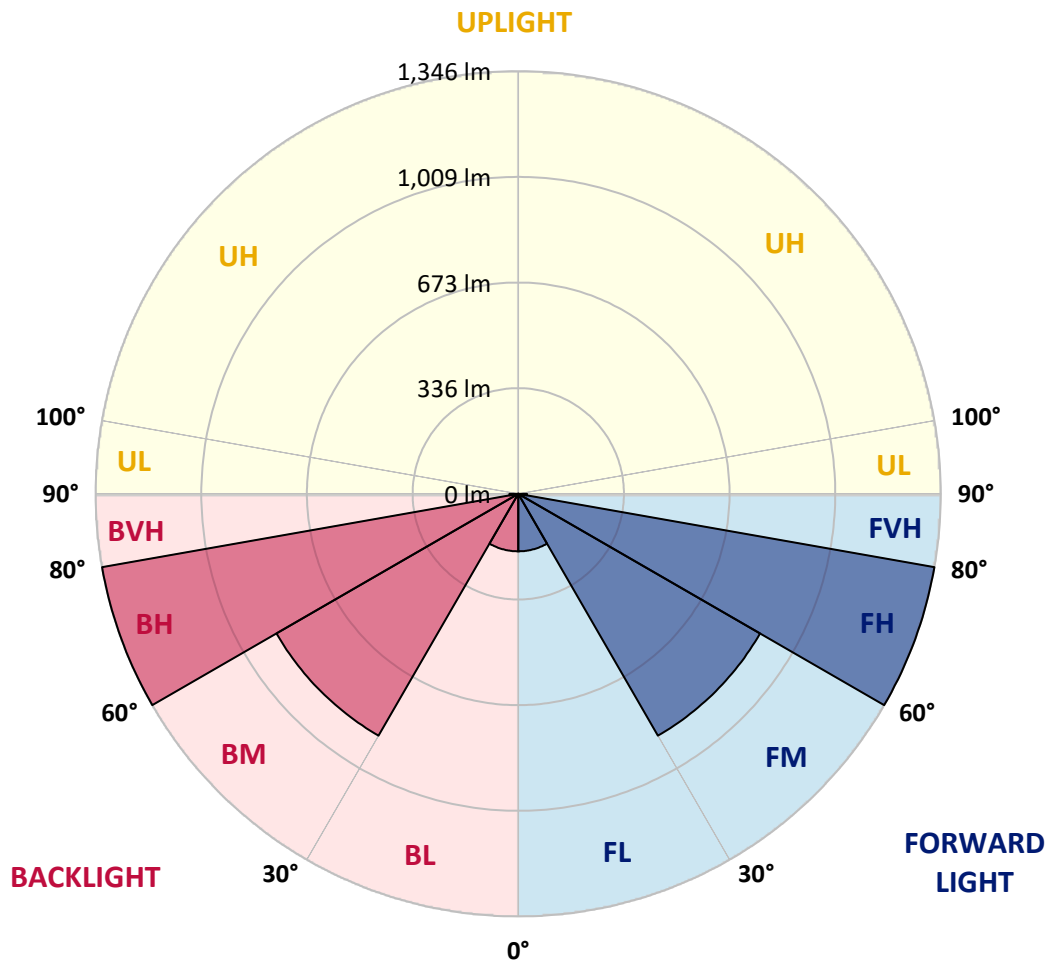
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 183.1  | 3.7       |                         |      |         |
| FM (30°-60°)   | 889.2  | 18.2      |                         |      |         |
| FH (60°-80°)   | 1345.7 | 27.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 28.0   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 183.1  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 889.2  | 18.2      | B1/1000                 |      |         |
| BH (60°-80°)   | 1345.7 | 27.5      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 28.0   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 446.2  | 446.2  | 446.2  | 446.2  | 446.2  | 446.2  | 446.2  | 446.2  | 446.2  | 446.2  |
| 2.5°  | 443.5  | 444.7  | 444.2  | 443.2  | 443.2  | 442.4  | 443.2  | 443.7  | 444.5  | 445.0  |
| 5°    | 437.6  | 438.6  | 438.4  | 437.6  | 437.9  | 437.1  | 437.6  | 438.4  | 438.9  | 439.1  |
| 7.5°  | 432.5  | 433.5  | 433.0  | 431.8  | 431.8  | 431.0  | 431.2  | 432.0  | 432.8  | 433.0  |
| 10°   | 431.2  | 432.3  | 430.7  | 428.7  | 427.9  | 426.9  | 427.2  | 427.9  | 429.5  | 430.2  |
| 12.5° | 431.8  | 432.5  | 431.0  | 427.9  | 427.2  | 426.2  | 426.2  | 426.9  | 429.0  | 430.0  |
| 15°   | 433.3  | 434.0  | 431.8  | 428.4  | 427.7  | 426.9  | 426.7  | 427.7  | 430.0  | 431.8  |
| 17.5° | 436.1  | 436.8  | 433.3  | 428.7  | 427.7  | 427.9  | 427.7  | 428.4  | 432.0  | 435.3  |
| 20°   | 438.6  | 439.1  | 434.3  | 428.7  | 427.7  | 427.9  | 427.7  | 429.2  | 433.8  | 438.4  |
| 22.5° | 439.4  | 439.9  | 435.3  | 430.5  | 429.7  | 430.0  | 429.7  | 431.2  | 435.6  | 440.1  |
| 25°   | 439.6  | 440.4  | 436.8  | 433.0  | 434.3  | 434.8  | 434.3  | 434.6  | 437.9  | 441.9  |
| 27.5° | 443.5  | 444.5  | 441.2  | 437.9  | 438.6  | 438.4  | 439.1  | 439.9  | 442.4  | 446.5  |
| 30°   | 451.3  | 452.1  | 449.3  | 446.0  | 445.5  | 443.7  | 446.0  | 448.5  | 451.3  | 454.9  |
| 32.5° | 464.3  | 465.8  | 462.3  | 458.7  | 456.4  | 455.4  | 457.2  | 461.5  | 465.3  | 469.1  |
| 35°   | 485.9  | 486.9  | 483.6  | 477.0  | 472.9  | 472.9  | 474.5  | 480.1  | 486.2  | 491.0  |
| 37.5° | 516.4  | 517.7  | 511.9  | 504.0  | 497.9  | 497.9  | 499.9  | 505.7  | 514.9  | 521.8  |
| 40°   | 553.6  | 555.3  | 548.0  | 539.8  | 534.0  | 533.0  | 535.5  | 542.1  | 550.8  | 559.4  |
| 42.5° | 598.3  | 600.3  | 590.7  | 583.6  | 579.0  | 579.0  | 580.3  | 586.4  | 594.2  | 604.9  |
| 45°   | 655.5  | 659.1  | 645.9  | 638.7  | 634.4  | 635.4  | 636.2  | 641.5  | 648.7  | 660.9  |
| 47.5° | 723.7  | 727.2  | 713.2  | 705.9  | 705.1  | 709.9  | 706.9  | 710.7  | 714.5  | 728.5  |
| 50°   | 801.0  | 807.1  | 797.4  | 796.9  | 798.4  | 807.3  | 800.2  | 802.2  | 797.9  | 806.8  |
| 52.5° | 895.5  | 904.4  | 902.7  | 905.7  | 922.8  | 941.1  | 924.8  | 917.7  | 901.4  | 904.2  |
| 55°   | 1010.2 | 1023.7 | 1026.2 | 1044.6 | 1083.2 | 1120.6 | 1086.0 | 1057.3 | 1022.7 | 1016.3 |
| 57.5° | 1140.7 | 1151.3 | 1163.6 | 1200.9 | 1273.1 | 1339.5 | 1273.1 | 1209.6 | 1155.2 | 1142.2 |
| 60°   | 1281.0 | 1294.2 | 1305.9 | 1361.1 | 1468.4 | 1561.7 | 1466.4 | 1365.4 | 1293.5 | 1275.9 |
| 62.5° | 1431.8 | 1448.8 | 1457.0 | 1518.3 | 1643.4 | 1754.7 | 1645.1 | 1522.8 | 1443.0 | 1424.2 |
| 65°   | 1576.5 | 1590.5 | 1599.6 | 1665.0 | 1784.5 | 1896.1 | 1792.6 | 1672.1 | 1590.0 | 1565.3 |
| 67.5° | 1643.9 | 1651.5 | 1673.9 | 1747.9 | 1874.0 | 2001.4 | 1895.4 | 1755.8 | 1664.0 | 1620.7 |
| 70°   | 1545.2 | 1529.7 | 1583.6 | 1702.1 | 1884.7 | 2066.0 | 1909.1 | 1698.5 | 1586.2 | 1516.0 |
| 72.5° | 1194.1 | 1167.4 | 1260.9 | 1463.6 | 1762.6 | 2024.8 | 1774.8 | 1475.0 | 1319.2 | 1176.8 |
| 75°   | 649.7  | 619.4  | 748.6  | 1004.9 | 1405.6 | 1755.0 | 1437.9 | 1033.6 | 833.5  | 644.8  |
| 77.5° | 183.3  | 171.9  | 276.1  | 486.2  | 845.5  | 1232.2 | 878.0  | 496.8  | 327.5  | 194.3  |
| 80°   | 56.2   | 54.4   | 73.7   | 146.5  | 359.0  | 590.2  | 345.0  | 148.2  | 93.8   | 59.2   |
| 82.5° | 33.3   | 30.5   | 36.6   | 53.4   | 91.5   | 185.4  | 89.0   | 55.7   | 44.8   | 30.0   |
| 85°   | 19.1   | 17.8   | 21.6   | 25.9   | 30.8   | 39.4   | 25.7   | 26.4   | 23.9   | 16.0   |
| 87.5° | 7.9    | 7.1    | 8.4    | 8.1    | 7.1    | 9.2    | 6.9    | 8.1    | 9.7    | 6.4    |
| 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°    |
|--------|
| 446.2  |
| 444.7  |
| 439.1  |
| 433.0  |
| 430.2  |
| 430.2  |
| 432.0  |
| 435.3  |
| 438.6  |
| 440.1  |
| 441.7  |
| 445.5  |
| 454.1  |
| 467.6  |
| 489.2  |
| 519.2  |
| 556.6  |
| 604.2  |
| 660.3  |
| 724.4  |
| 801.5  |
| 894.8  |
| 1006.4 |
| 1133.0 |
| 1260.7 |
| 1408.9 |
| 1553.1 |
| 1621.2 |
| 1532.8 |
| 1212.1 |
| 686.8  |
| 215.9  |
| 62.6   |
| 32.5   |
| 16.8   |
| 5.8    |
| 0.0    |

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