

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: P848151

Luminaire Tested: **GLAN-SB4C-830-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848151
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-SB4C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26068 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

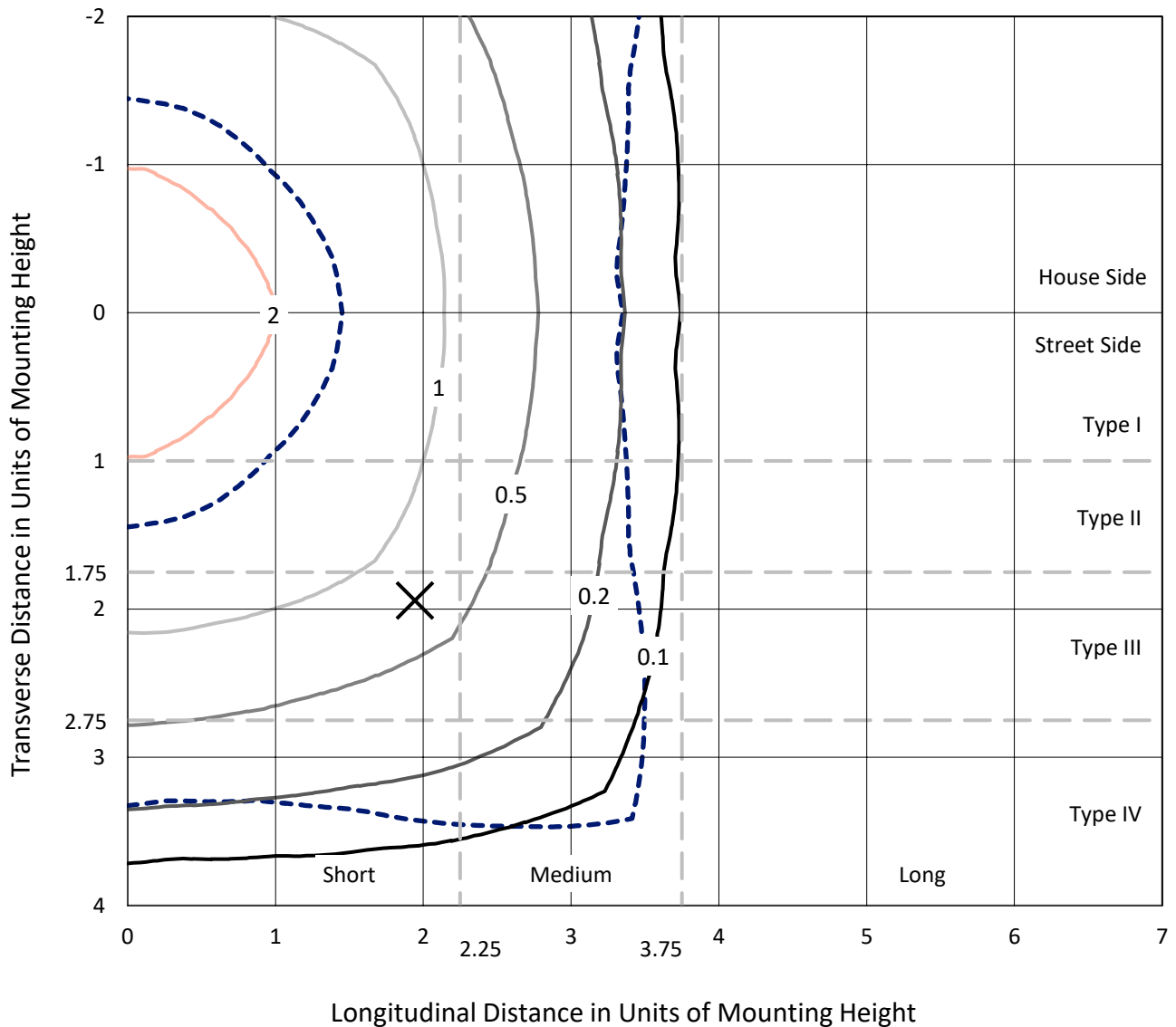
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

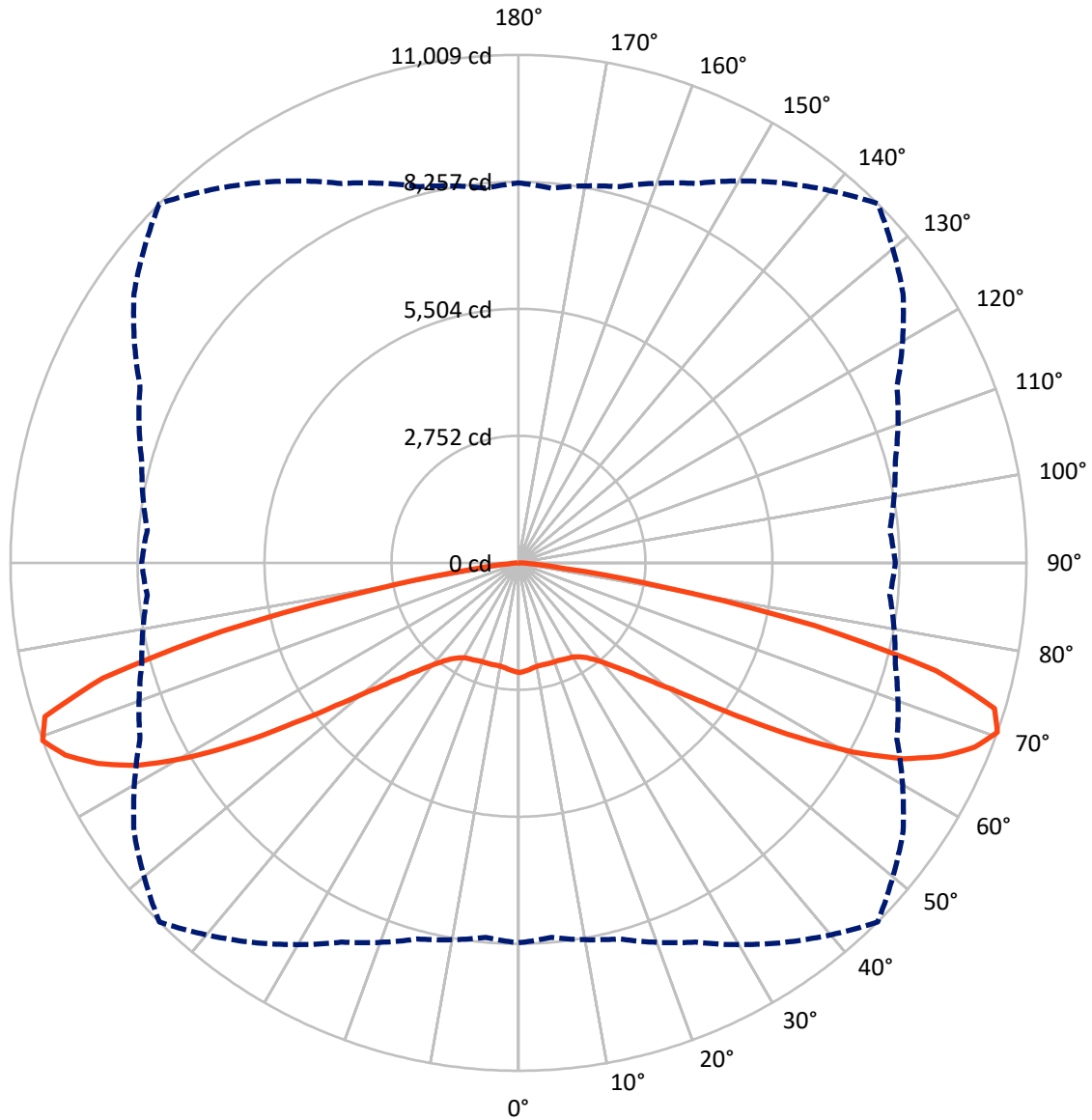
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13034.0 | 0.0 | 13034.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13034.0 | 0.0 | 13034.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 26068.0 | 0.0 | 26068.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 221.2 | 0.8 |
| 10°-20° | 649.5 | 2.5 |
| 20°-30° | 1080.9 | 4.1 |
| 30°-40° | 1634.6 | 6.3 |
| 40°-50° | 2716.3 | 10.4 |
| 50°-60° | 5125.6 | 19.7 |
| 60°-70° | 8654.8 | 33.2 |
| 70°-80° | 5687.1 | 21.8 |
| 80°-90° | 297.9 | 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° | 26068.0 | 100.0 |
| 0°-180° | 26068.0 | 100.0 |

Coefficient of Utilization



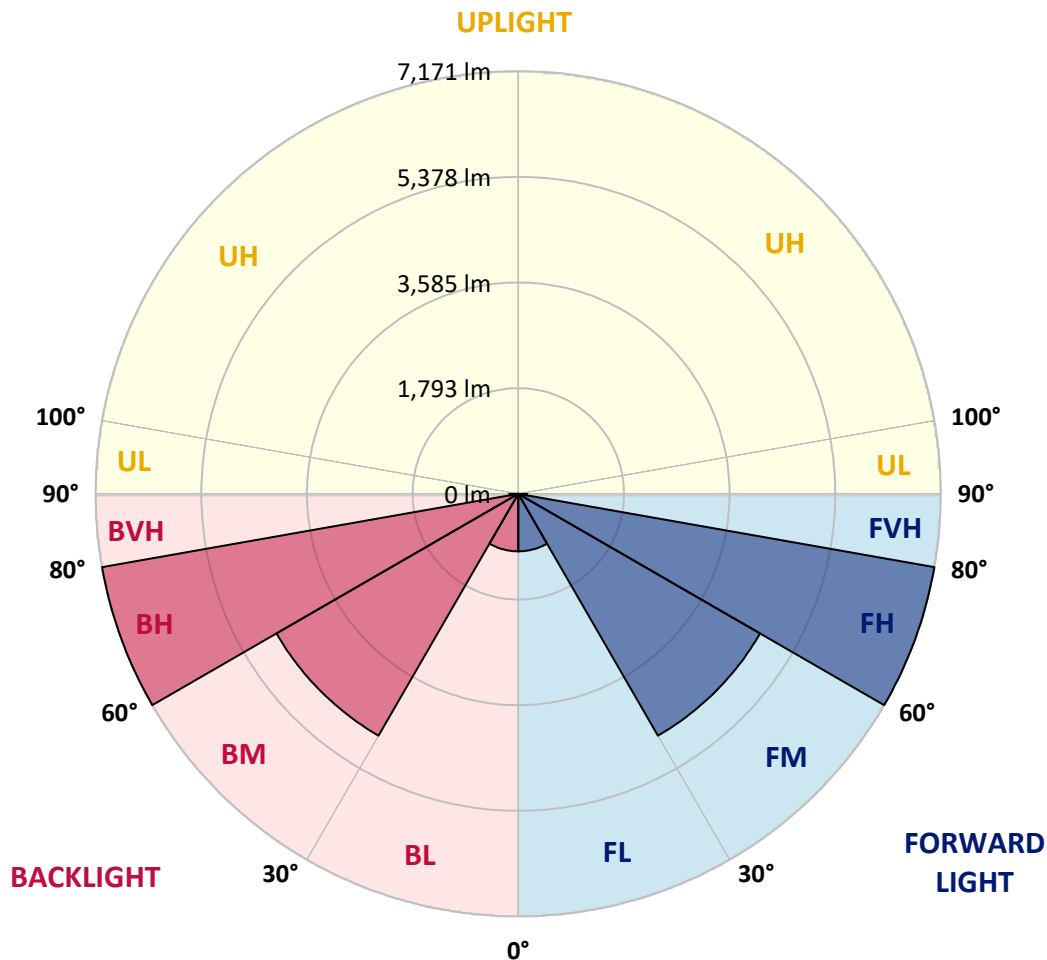
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 975.8 | 3.7 | | | |
| FM (30°-60°) | 4738.3 | 18.2 | | | |
| FH (60°-80°) | 7171.0 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 149.0 | 0.6 | | | G2/225 |
| BL (0°-30°) | 975.8 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 4738.3 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 7171.0 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 149.0 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 2377.9 | 2377.9 | 2377.9 | 2377.9 | 2377.9 | 2377.9 | 2377.9 | 2377.9 | 2377.9 | 2377.9 |
| 2.5° | 2363.0 | 2369.8 | 2367.1 | 2361.7 | 2361.7 | 2357.6 | 2361.7 | 2364.4 | 2368.4 | 2371.2 |
| 5° | 2331.9 | 2337.3 | 2335.9 | 2331.9 | 2333.2 | 2329.1 | 2331.9 | 2335.9 | 2338.6 | 2340.0 |
| 7.5° | 2304.8 | 2310.2 | 2307.5 | 2300.7 | 2300.7 | 2296.6 | 2298.0 | 2302.0 | 2306.1 | 2307.5 |
| 10° | 2298.0 | 2303.4 | 2295.3 | 2284.4 | 2280.4 | 2275.0 | 2276.3 | 2280.4 | 2288.5 | 2292.6 |
| 12.5° | 2300.7 | 2304.8 | 2296.6 | 2280.4 | 2276.3 | 2270.9 | 2270.9 | 2275.0 | 2285.8 | 2291.2 |
| 15° | 2308.8 | 2312.9 | 2300.7 | 2283.1 | 2279.0 | 2275.0 | 2273.6 | 2279.0 | 2291.2 | 2300.7 |
| 17.5° | 2323.7 | 2327.8 | 2308.8 | 2284.4 | 2279.0 | 2280.4 | 2279.0 | 2283.1 | 2302.0 | 2319.7 |
| 20° | 2337.3 | 2340.0 | 2314.2 | 2284.4 | 2279.0 | 2280.4 | 2279.0 | 2287.1 | 2311.5 | 2335.9 |
| 22.5° | 2341.3 | 2344.1 | 2319.7 | 2293.9 | 2289.9 | 2291.2 | 2289.9 | 2298.0 | 2321.0 | 2345.4 |
| 25° | 2342.7 | 2346.8 | 2327.8 | 2307.5 | 2314.2 | 2317.0 | 2314.2 | 2315.6 | 2333.2 | 2354.9 |
| 27.5° | 2363.0 | 2368.4 | 2350.8 | 2333.2 | 2337.3 | 2335.9 | 2340.0 | 2344.1 | 2357.6 | 2379.3 |
| 30° | 2405.0 | 2409.1 | 2394.2 | 2376.6 | 2373.9 | 2364.4 | 2376.6 | 2390.1 | 2405.0 | 2424.0 |
| 32.5° | 2474.1 | 2482.3 | 2463.3 | 2444.3 | 2432.1 | 2426.7 | 2436.2 | 2459.2 | 2479.5 | 2499.9 |
| 35° | 2589.3 | 2594.7 | 2577.1 | 2541.9 | 2520.2 | 2520.2 | 2528.3 | 2558.1 | 2590.7 | 2616.4 |
| 37.5° | 2751.9 | 2758.7 | 2727.5 | 2685.5 | 2653.0 | 2653.0 | 2663.8 | 2695.0 | 2743.8 | 2780.3 |
| 40° | 2949.7 | 2959.2 | 2919.9 | 2876.5 | 2845.4 | 2840.0 | 2853.5 | 2888.7 | 2934.8 | 2980.9 |
| 42.5° | 3188.2 | 3199.0 | 3147.5 | 3109.6 | 3085.2 | 3085.2 | 3092.0 | 3124.5 | 3166.5 | 3223.4 |
| 45° | 3493.0 | 3512.0 | 3441.6 | 3403.6 | 3380.6 | 3386.0 | 3390.1 | 3418.5 | 3456.5 | 3521.5 |
| 47.5° | 3856.2 | 3875.1 | 3800.6 | 3761.3 | 3757.3 | 3783.0 | 3766.7 | 3787.1 | 3807.4 | 3881.9 |
| 50° | 4268.1 | 4300.6 | 4249.1 | 4246.4 | 4254.5 | 4301.9 | 4264.0 | 4274.8 | 4251.8 | 4299.2 |
| 52.5° | 4772.1 | 4819.5 | 4810.1 | 4826.3 | 4917.1 | 5014.6 | 4927.9 | 4890.0 | 4803.3 | 4818.2 |
| 55° | 5383.2 | 5455.0 | 5468.6 | 5566.1 | 5772.1 | 5971.2 | 5787.0 | 5633.9 | 5449.6 | 5415.7 |
| 57.5° | 6078.3 | 6135.2 | 6200.2 | 6399.4 | 6784.2 | 7137.8 | 6784.2 | 6445.5 | 6155.5 | 6086.4 |
| 60° | 6826.2 | 6896.7 | 6959.0 | 7253.0 | 7824.8 | 8322.1 | 7814.0 | 7276.0 | 6892.6 | 6799.1 |
| 62.5° | 7629.7 | 7720.5 | 7763.8 | 8090.4 | 8757.0 | 9350.5 | 8766.5 | 8114.8 | 7689.3 | 7589.0 |
| 65° | 8400.7 | 8475.2 | 8524.0 | 8872.2 | 9509.0 | 10103.8 | 9552.4 | 8910.1 | 8472.5 | 8341.0 |
| 67.5° | 8759.7 | 8800.4 | 8919.6 | 9313.9 | 9985.9 | 10664.8 | 10099.8 | 9355.9 | 8866.8 | 8636.4 |
| 70° | 8234.0 | 8151.3 | 8438.6 | 9070.0 | 10042.8 | 11008.9 | 10172.9 | 9051.0 | 8452.1 | 8078.2 |
| 72.5° | 6362.8 | 6220.5 | 6719.2 | 7799.1 | 9392.5 | 10789.4 | 9457.5 | 7860.0 | 7029.4 | 6270.7 |
| 75° | 3461.9 | 3300.6 | 3989.0 | 5354.7 | 7490.1 | 9351.8 | 7662.2 | 5507.8 | 4441.5 | 3436.1 |
| 77.5° | 976.9 | 915.9 | 1471.5 | 2590.7 | 4505.2 | 6566.1 | 4678.6 | 2647.6 | 1745.2 | 1035.2 |
| 80° | 299.4 | 290.0 | 392.9 | 780.4 | 1913.2 | 3144.8 | 1838.7 | 789.9 | 500.0 | 315.7 |
| 82.5° | 177.5 | 162.6 | 195.1 | 284.5 | 487.8 | 987.8 | 474.2 | 296.7 | 238.5 | 159.9 |
| 85° | 101.6 | 94.8 | 115.2 | 138.2 | 163.9 | 210.0 | 136.8 | 140.9 | 127.4 | 85.4 |
| 87.5° | 42.0 | 37.9 | 44.7 | 43.4 | 37.9 | 48.8 | 36.6 | 43.4 | 51.5 | 33.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2377.9 |
| 2369.8 |
| 2340.0 |
| 2307.5 |
| 2292.6 |
| 2292.6 |
| 2302.0 |
| 2319.7 |
| 2337.3 |
| 2345.4 |
| 2353.5 |
| 2373.9 |
| 2419.9 |
| 2491.7 |
| 2606.9 |
| 2766.8 |
| 2966.0 |
| 3219.3 |
| 3518.8 |
| 3860.2 |
| 4270.8 |
| 4768.0 |
| 5362.9 |
| 6037.6 |
| 6717.8 |
| 7507.7 |
| 8276.0 |
| 8639.1 |
| 8167.6 |
| 6459.0 |
| 3659.7 |
| 1150.3 |
| 333.3 |
| 173.4 |
| 89.4 |
| 31.2 |
| 0.0 |

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