

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: P849031

Luminaire Tested: **GLAN-SB5D-850-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849031
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-SB5D-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44645 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

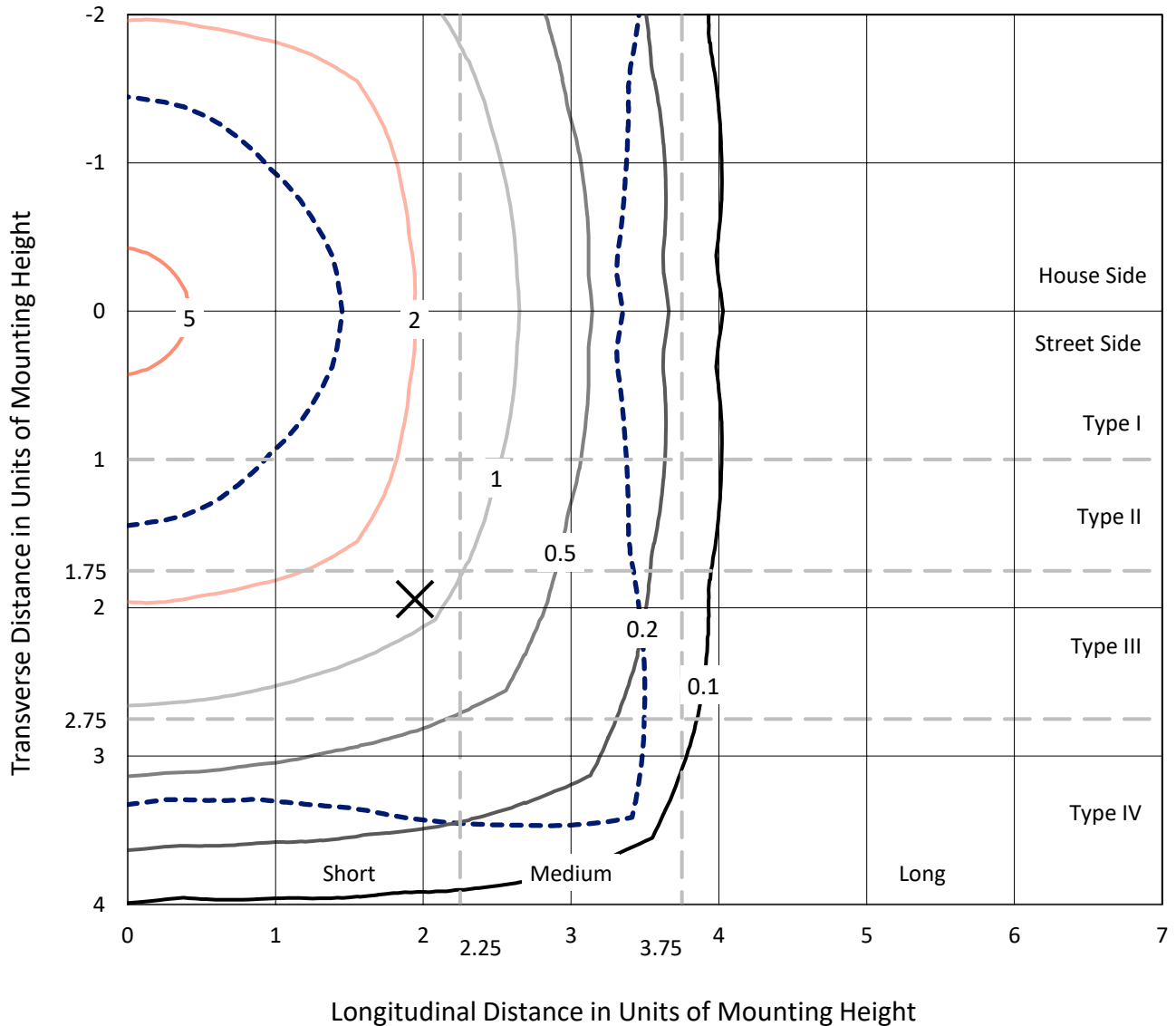
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

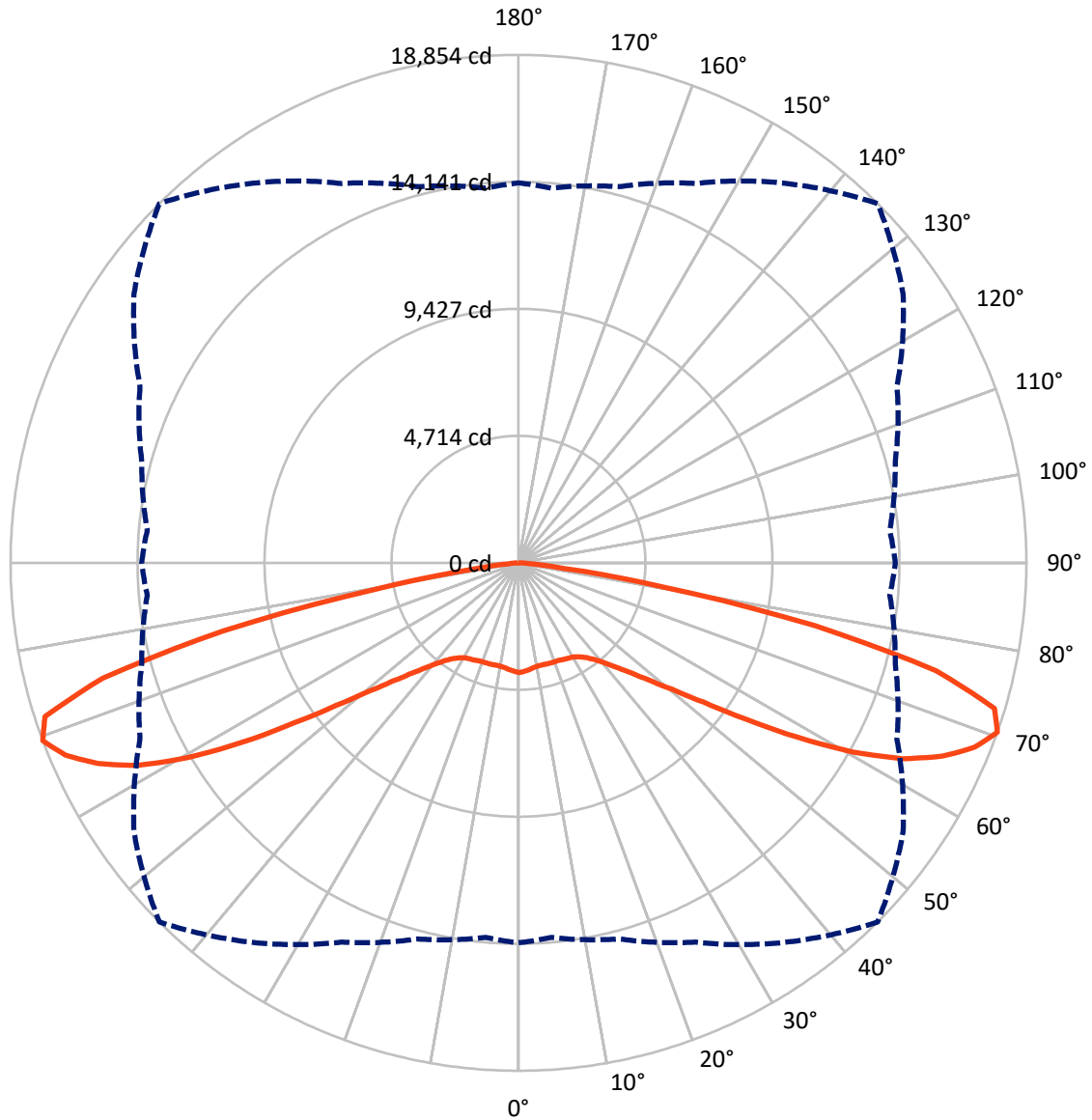
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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 | 22322.5 | 0.0 | 22322.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22322.5 | 0.0 | 22322.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44645.0 | 0.0 | 44645.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 378.8 | 0.8 |
| 10°-20° | 1112.4 | 2.5 |
| 20°-30° | 1851.1 | 4.1 |
| 30°-40° | 2799.5 | 6.3 |
| 40°-50° | 4652.1 | 10.4 |
| 50°-60° | 8778.3 | 19.7 |
| 60°-70° | 14822.5 | 33.2 |
| 70°-80° | 9739.9 | 21.8 |
| 80°-90° | 510.3 | 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° | 44645.0 | 100.0 |
| 0°-180° | 44645.0 | 100.0 |

Coefficient of Utilization



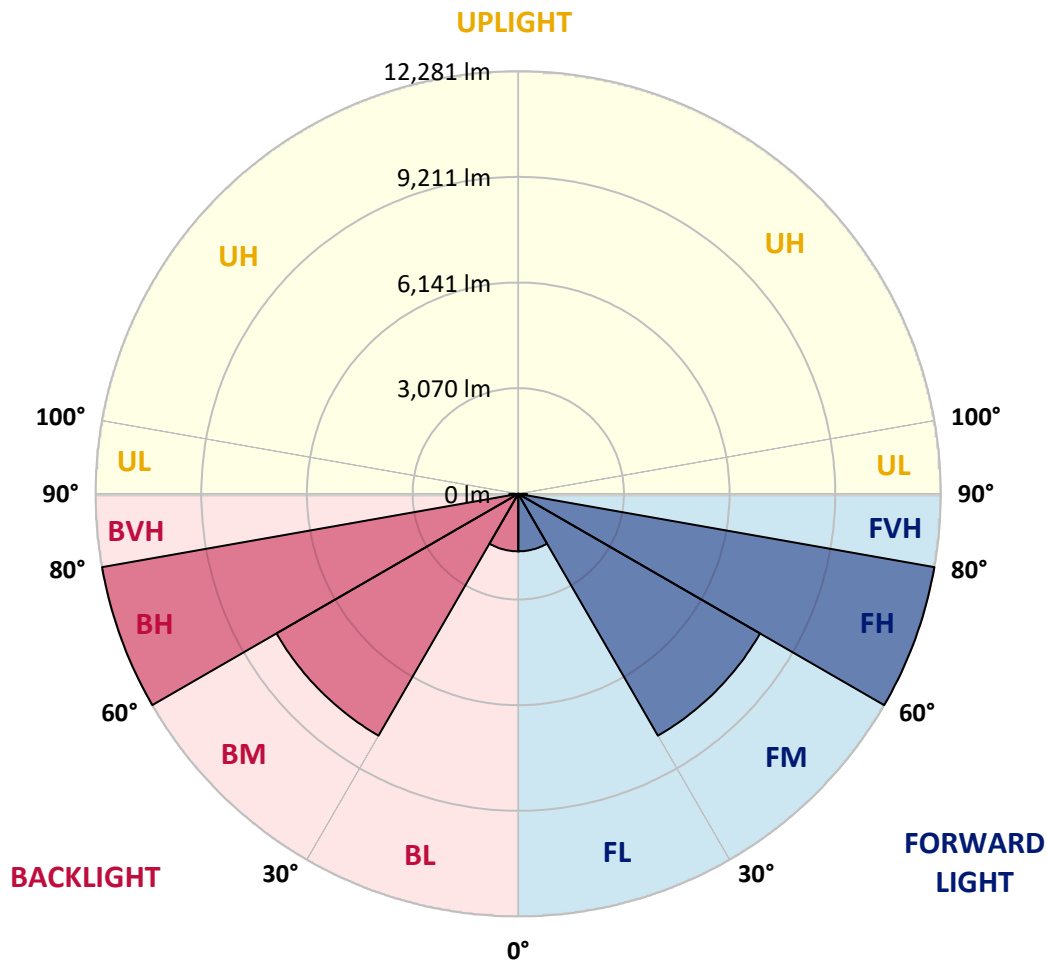
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1671.2 | 3.7 | | | |
| FM (30°-60°) | 8114.9 | 18.2 | | | |
| FH (60°-80°) | 12281.2 | 27.5 | | | G5 |
| FVH (80°-90°) | 255.1 | 0.6 | | | G3/500 |
| BL (0°-30°) | 1671.2 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 8114.9 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 12281.2 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 255.1 | 0.6 | | | 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 V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4072.5 | 4072.5 | 4072.5 | 4072.5 | 4072.5 | 4072.5 | 4072.5 | 4072.5 | 4072.5 | 4072.5 |
| 2.5° | 4047.0 | 4058.6 | 4054.0 | 4044.7 | 4044.7 | 4037.7 | 4044.7 | 4049.3 | 4056.3 | 4060.9 |
| 5° | 3993.6 | 4002.9 | 4000.6 | 3993.6 | 3995.9 | 3989.0 | 3993.6 | 4000.6 | 4005.2 | 4007.5 |
| 7.5° | 3947.2 | 3956.5 | 3951.9 | 3940.3 | 3940.3 | 3933.3 | 3935.6 | 3942.6 | 3949.5 | 3951.9 |
| 10° | 3935.6 | 3944.9 | 3931.0 | 3912.4 | 3905.4 | 3896.2 | 3898.5 | 3905.4 | 3919.4 | 3926.3 |
| 12.5° | 3940.3 | 3947.2 | 3933.3 | 3905.4 | 3898.5 | 3889.2 | 3889.2 | 3896.2 | 3914.7 | 3924.0 |
| 15° | 3954.2 | 3961.1 | 3940.3 | 3910.1 | 3903.1 | 3896.2 | 3893.8 | 3903.1 | 3924.0 | 3940.3 |
| 17.5° | 3979.7 | 3986.7 | 3954.2 | 3912.4 | 3903.1 | 3905.4 | 3903.1 | 3910.1 | 3942.6 | 3972.7 |
| 20° | 4002.9 | 4007.5 | 3963.5 | 3912.4 | 3903.1 | 3905.4 | 3903.1 | 3917.0 | 3958.8 | 4000.6 |
| 22.5° | 4009.9 | 4014.5 | 3972.7 | 3928.7 | 3921.7 | 3924.0 | 3921.7 | 3935.6 | 3975.1 | 4016.8 |
| 25° | 4012.2 | 4019.2 | 3986.7 | 3951.9 | 3963.5 | 3968.1 | 3963.5 | 3965.8 | 3995.9 | 4033.1 |
| 27.5° | 4047.0 | 4056.3 | 4026.1 | 3995.9 | 4002.9 | 4000.6 | 4007.5 | 4014.5 | 4037.7 | 4074.8 |
| 30° | 4118.9 | 4125.9 | 4100.4 | 4070.2 | 4065.6 | 4049.3 | 4070.2 | 4093.4 | 4118.9 | 4151.4 |
| 32.5° | 4237.3 | 4251.2 | 4218.7 | 4186.2 | 4165.3 | 4156.1 | 4172.3 | 4211.8 | 4246.6 | 4281.4 |
| 35° | 4434.5 | 4443.8 | 4413.6 | 4353.3 | 4316.2 | 4316.2 | 4330.1 | 4381.2 | 4436.8 | 4480.9 |
| 37.5° | 4713.0 | 4724.6 | 4671.2 | 4599.3 | 4543.6 | 4543.6 | 4562.2 | 4615.5 | 4699.1 | 4761.7 |
| 40° | 5051.8 | 5068.0 | 5000.7 | 4926.5 | 4873.1 | 4863.8 | 4887.0 | 4947.4 | 5026.3 | 5105.2 |
| 42.5° | 5460.2 | 5478.8 | 5390.6 | 5325.6 | 5283.8 | 5283.8 | 5295.4 | 5351.1 | 5423.1 | 5520.5 |
| 45° | 5982.3 | 6014.8 | 5894.1 | 5829.2 | 5789.7 | 5799.0 | 5806.0 | 5854.7 | 5919.7 | 6031.0 |
| 47.5° | 6604.2 | 6636.7 | 6509.1 | 6441.8 | 6434.8 | 6478.9 | 6451.1 | 6485.9 | 6520.7 | 6648.3 |
| 50° | 7309.7 | 7365.3 | 7277.2 | 7272.5 | 7286.5 | 7367.7 | 7302.7 | 7321.3 | 7281.8 | 7363.0 |
| 52.5° | 8172.9 | 8254.1 | 8237.9 | 8265.7 | 8421.2 | 8588.3 | 8439.8 | 8374.8 | 8226.3 | 8251.8 |
| 55° | 9219.4 | 9342.4 | 9365.6 | 9532.7 | 9885.4 | 10226.6 | 9911.0 | 9648.7 | 9333.2 | 9275.1 |
| 57.5° | 10409.9 | 10507.3 | 10618.7 | 10959.8 | 11618.9 | 12224.5 | 11618.9 | 11038.7 | 10542.1 | 10423.8 |
| 60° | 11690.8 | 11811.5 | 11918.2 | 12421.8 | 13401.0 | 14252.7 | 13382.5 | 12461.2 | 11804.5 | 11644.4 |
| 62.5° | 13066.9 | 13222.4 | 13296.6 | 13855.9 | 14997.6 | 16013.9 | 15013.8 | 13897.6 | 13169.0 | 12997.3 |
| 65° | 14387.3 | 14514.9 | 14598.4 | 15194.8 | 16285.5 | 17304.2 | 16359.7 | 15259.8 | 14510.2 | 14285.2 |
| 67.5° | 15002.2 | 15071.8 | 15276.0 | 15951.3 | 17102.3 | 18264.9 | 17297.2 | 16023.2 | 15185.5 | 14791.0 |
| 70° | 14101.8 | 13960.3 | 14452.2 | 15533.6 | 17199.7 | 18854.3 | 17422.5 | 15501.1 | 14475.4 | 13835.0 |
| 72.5° | 10897.2 | 10653.5 | 11507.5 | 13356.9 | 16085.9 | 18478.3 | 16197.3 | 13461.4 | 12038.9 | 10739.4 |
| 75° | 5928.9 | 5652.8 | 6831.6 | 9170.7 | 12827.9 | 16016.3 | 13122.6 | 9432.9 | 7606.7 | 5884.9 |
| 77.5° | 1673.1 | 1568.7 | 2520.1 | 4436.8 | 7715.7 | 11245.3 | 8012.8 | 4534.3 | 2988.8 | 1772.9 |
| 80° | 512.8 | 496.6 | 673.0 | 1336.6 | 3276.6 | 5385.9 | 3149.0 | 1352.9 | 856.3 | 540.7 |
| 82.5° | 304.0 | 278.5 | 334.2 | 487.3 | 835.4 | 1691.7 | 812.2 | 508.2 | 408.4 | 273.8 |
| 85° | 174.0 | 162.4 | 197.2 | 236.7 | 280.8 | 359.7 | 234.4 | 241.3 | 218.1 | 146.2 |
| 87.5° | 71.9 | 65.0 | 76.6 | 74.3 | 65.0 | 83.5 | 62.7 | 74.3 | 88.2 | 58.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4072.5 |
| 4058.6 |
| 4007.5 |
| 3951.9 |
| 3926.3 |
| 3926.3 |
| 3942.6 |
| 3972.7 |
| 4002.9 |
| 4016.8 |
| 4030.8 |
| 4065.6 |
| 4144.5 |
| 4267.4 |
| 4464.7 |
| 4738.5 |
| 5079.6 |
| 5513.6 |
| 6026.4 |
| 6611.2 |
| 7314.3 |
| 8165.9 |
| 9184.6 |
| 10340.3 |
| 11505.2 |
| 12858.0 |
| 14173.8 |
| 14795.7 |
| 13988.1 |
| 11061.9 |
| 6267.7 |
| 1970.1 |
| 570.8 |
| 297.0 |
| 153.2 |
| 53.4 |
| 0.0 |

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