

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: P955481

Luminaire Tested: **GALN-SB8B-935-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-935-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32618 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

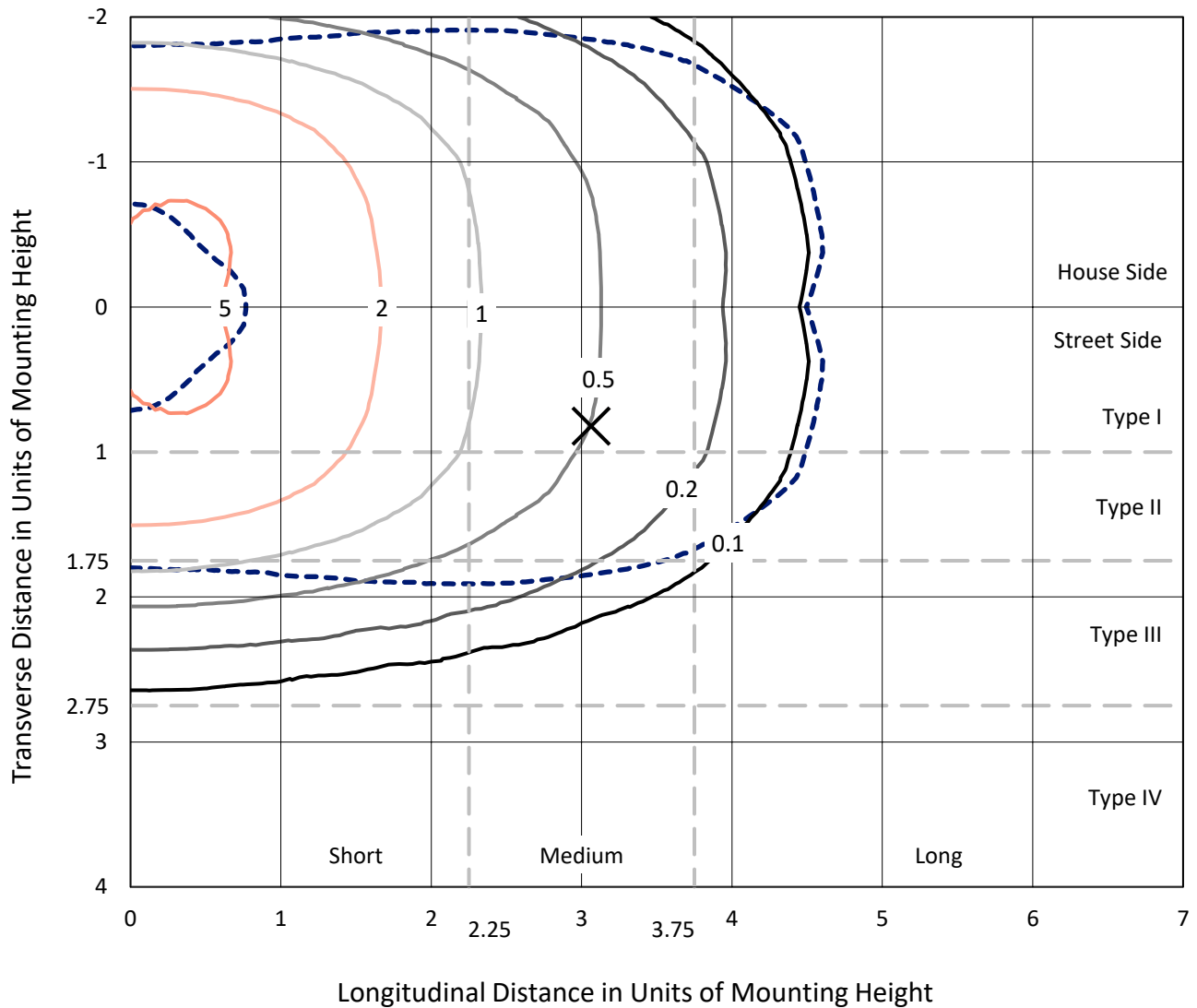
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

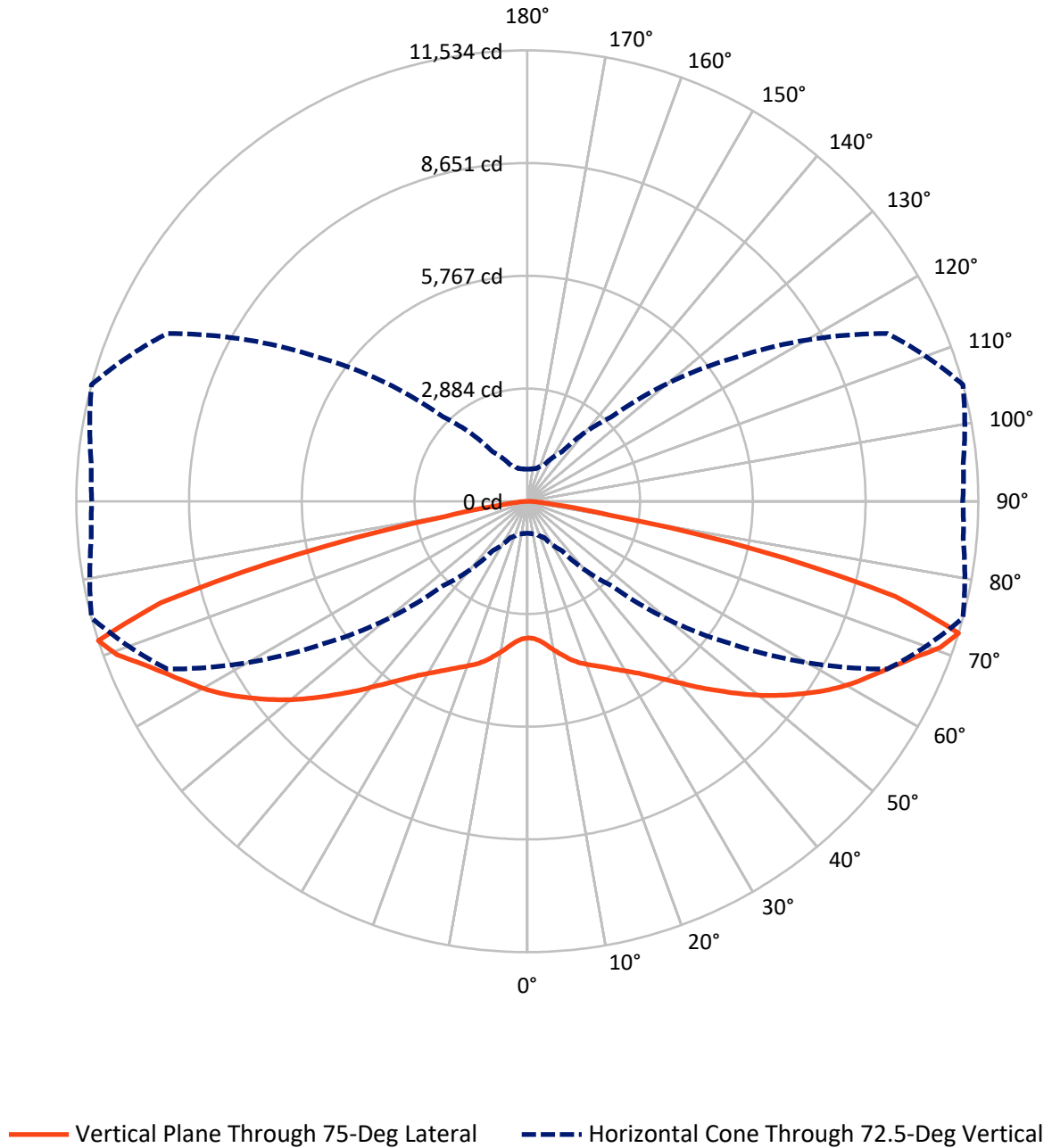
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16309.0 | 0.0 | 16309.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16309.0 | 0.0 | 16309.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32618.0 | 0.0 | 32618.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 342.3 | 1.0 |
| 10°-20° | 1128.9 | 3.5 |
| 20°-30° | 2181.3 | 6.7 |
| 30°-40° | 3683.2 | 11.3 |
| 40°-50° | 5841.2 | 17.9 |
| 50°-60° | 7820.7 | 24.0 |
| 60°-70° | 7442.8 | 22.8 |
| 70°-80° | 3883.8 | 11.9 |
| 80°-90° | 294.0 | 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° | 32618.0 | 100.0 |
| 0°-180° | 32618.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P955481

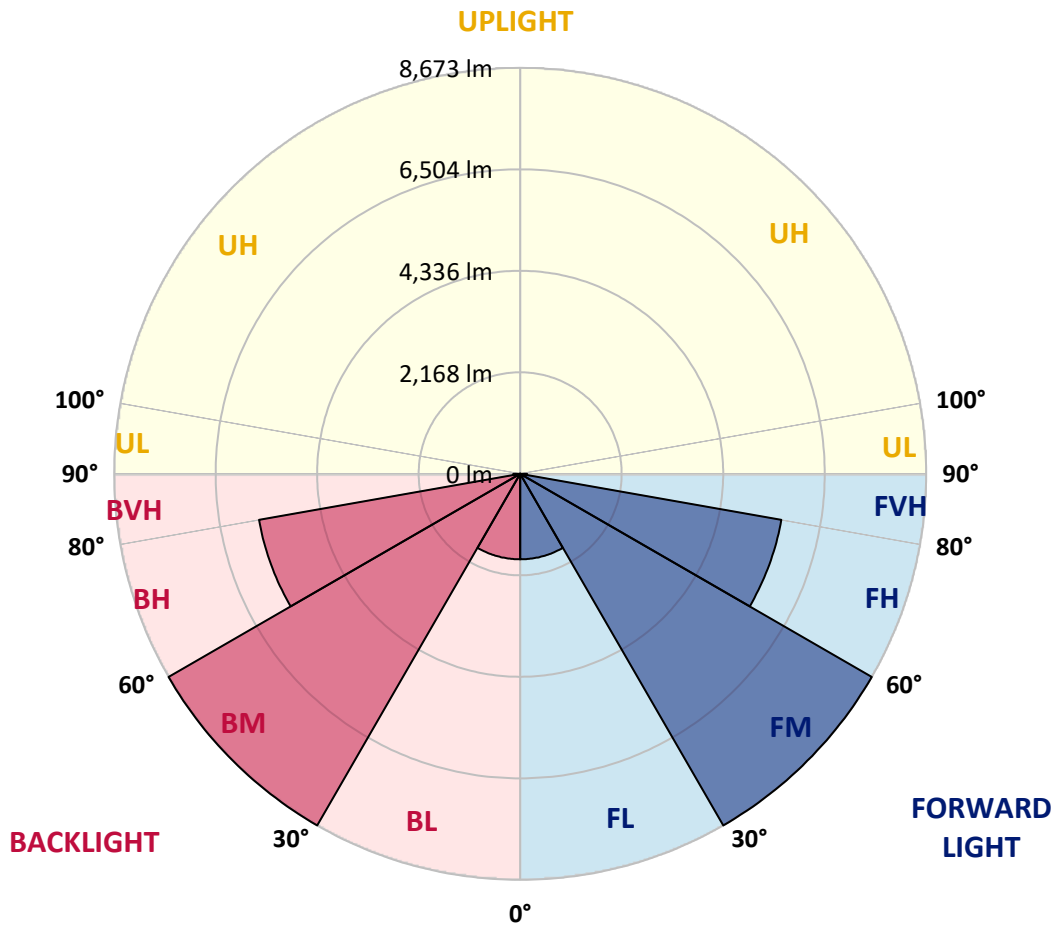
CATALOG NUMBER: GALN-SB8B-935-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1826.2 | 5.6 | | | |
| FM (30°-60°) | 8672.5 | 26.6 | | | |
| FH (60°-80°) | 5663.3 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 147.0 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1826.2 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 8672.5 | 26.6 | B5 | | |
| BH (60°-80°) | 5663.3 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 147.0 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3494.0 | 3494.0 | 3494.0 | 3494.0 | 3494.0 | 3494.0 | 3494.0 | 3494.0 | 3494.0 | 3494.0 |
| 2.5° | 3494.0 | 3490.6 | 3494.0 | 3497.3 | 3495.6 | 3495.6 | 3504.0 | 3509.0 | 3519.0 | 3517.3 |
| 5° | 3470.7 | 3469.0 | 3482.3 | 3497.3 | 3509.0 | 3528.9 | 3553.9 | 3572.2 | 3595.6 | 3600.6 |
| 7.5° | 3459.0 | 3454.0 | 3477.3 | 3504.0 | 3540.6 | 3590.6 | 3638.9 | 3688.8 | 3728.8 | 3742.1 |
| 10° | 3467.3 | 3469.0 | 3500.6 | 3550.6 | 3608.9 | 3678.8 | 3747.1 | 3832.0 | 3888.7 | 3902.0 |
| 12.5° | 3505.6 | 3502.3 | 3555.6 | 3635.5 | 3715.5 | 3803.7 | 3883.7 | 3976.9 | 4038.6 | 4070.2 |
| 15° | 3575.6 | 3568.9 | 3643.9 | 3762.1 | 3878.7 | 3981.9 | 4046.9 | 4135.1 | 4206.8 | 4246.7 |
| 17.5° | 3658.8 | 3662.2 | 3760.4 | 3913.6 | 4066.9 | 4183.4 | 4245.1 | 4290.0 | 4345.0 | 4380.0 |
| 20° | 3805.4 | 3812.1 | 3922.0 | 4103.5 | 4278.4 | 4411.6 | 4461.6 | 4444.9 | 4459.9 | 4486.5 |
| 22.5° | 4001.9 | 4005.2 | 4128.5 | 4325.0 | 4508.2 | 4654.7 | 4688.1 | 4619.8 | 4578.1 | 4596.5 |
| 25° | 4230.1 | 4251.7 | 4375.0 | 4576.5 | 4764.7 | 4904.6 | 4919.5 | 4816.3 | 4713.0 | 4718.0 |
| 27.5° | 4508.2 | 4528.2 | 4653.1 | 4852.9 | 5044.4 | 5166.0 | 5164.3 | 5026.1 | 4874.6 | 4836.3 |
| 30° | 4809.6 | 4831.3 | 4959.5 | 5166.0 | 5344.2 | 5450.8 | 5427.5 | 5262.6 | 5046.1 | 4974.5 |
| 32.5° | 5167.7 | 5181.0 | 5310.9 | 5517.4 | 5682.3 | 5767.2 | 5718.9 | 5515.7 | 5246.0 | 5164.3 |
| 35° | 5600.7 | 5620.7 | 5717.3 | 5912.1 | 6057.0 | 6126.9 | 6045.3 | 5805.5 | 5502.4 | 5410.8 |
| 37.5° | 6095.3 | 6082.0 | 6191.9 | 6365.1 | 6485.0 | 6528.3 | 6416.7 | 6131.9 | 5795.5 | 5687.3 |
| 40° | 6611.6 | 6604.9 | 6724.8 | 6891.4 | 6956.3 | 6982.9 | 6818.1 | 6506.6 | 6133.6 | 6017.0 |
| 42.5° | 7079.5 | 7074.5 | 7236.1 | 7420.9 | 7499.2 | 7469.2 | 7261.1 | 6904.7 | 6525.0 | 6391.7 |
| 45° | 7454.3 | 7447.6 | 7645.8 | 7905.6 | 8058.8 | 8008.8 | 7729.0 | 7344.3 | 6921.3 | 6783.1 |
| 47.5° | 7742.4 | 7745.7 | 7958.9 | 8280.3 | 8548.4 | 8566.7 | 8207.0 | 7792.3 | 7357.7 | 7201.1 |
| 50° | 7950.5 | 7960.5 | 8188.7 | 8545.1 | 8911.5 | 9073.0 | 8695.0 | 8252.0 | 7809.0 | 7632.4 |
| 52.5° | 8002.2 | 8020.5 | 8295.3 | 8713.3 | 9144.6 | 9452.7 | 9191.2 | 8693.3 | 8237.0 | 8068.8 |
| 55° | 7727.4 | 7764.0 | 8112.1 | 8700.0 | 9287.8 | 9702.5 | 9627.6 | 9141.3 | 8668.3 | 8495.1 |
| 57.5° | 7096.2 | 7147.8 | 7554.2 | 8321.9 | 9256.2 | 9874.1 | 9965.6 | 9571.0 | 9099.6 | 8933.1 |
| 60° | 6211.9 | 6273.5 | 6663.2 | 7500.9 | 8809.9 | 9937.3 | 10203.8 | 9989.0 | 9496.0 | 9334.5 |
| 62.5° | 4877.9 | 4957.8 | 5424.1 | 6406.7 | 7867.3 | 9642.6 | 10407.0 | 10367.0 | 9852.4 | 9650.9 |
| 65° | 3129.3 | 3214.2 | 3705.5 | 4866.2 | 6609.9 | 8739.9 | 10470.3 | 10735.1 | 10228.8 | 9947.3 |
| 67.5° | 1886.9 | 1925.2 | 2168.3 | 2949.4 | 4831.3 | 7379.3 | 9934.0 | 11143.1 | 10668.4 | 10318.7 |
| 70° | 1207.4 | 1229.1 | 1373.9 | 1732.0 | 2731.2 | 5384.2 | 8605.0 | 11219.7 | 11201.4 | 10700.1 |
| 72.5° | 819.4 | 826.0 | 864.3 | 1025.9 | 1545.5 | 3059.3 | 6346.8 | 10157.2 | 11534.4 | 11191.4 |
| 75° | 599.5 | 636.2 | 697.8 | 726.1 | 877.7 | 1528.8 | 3637.2 | 7136.2 | 9720.8 | 9870.7 |
| 77.5° | 446.3 | 448.0 | 532.9 | 566.2 | 626.2 | 814.4 | 1538.8 | 3983.6 | 6035.3 | 6336.8 |
| 80° | 378.0 | 358.1 | 356.4 | 456.3 | 471.3 | 507.9 | 687.8 | 1375.6 | 2161.7 | 1310.7 |
| 82.5° | 314.8 | 293.1 | 264.8 | 356.4 | 321.4 | 311.4 | 298.1 | 559.6 | 687.8 | 338.1 |
| 85° | 219.8 | 209.8 | 199.8 | 233.2 | 183.2 | 156.5 | 143.2 | 261.5 | 289.8 | 143.2 |
| 87.5° | 94.9 | 98.3 | 99.9 | 103.3 | 76.6 | 55.0 | 55.0 | 73.3 | 73.3 | 56.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|----------------|
| 3494.0 |
| 3515.6 |
| 3600.6 |
| 3745.4 |
| 3915.3 |
| 4083.5 |
| 4261.7 |
| 4396.6 |
| 4506.5 |
| 4609.8 |
| 4726.4 |
| 4847.9 |
| 4982.8 |
| 5184.3 |
| 5424.1 |
| 5707.3 |
| 6055.3 |
| 6425.0 |
| 6814.7 |
| 7247.7 |
| 7685.7 |
| 8112.1 |
| 8543.4 |
| 8971.4 |
| 9369.4 |
| 9674.2 |
| 9982.3 |
| 10345.4 |
| 10696.7 |
| <i>11138.1</i> |
| 9507.7 |
| 5652.3 |
| 990.9 |
| 288.1 |
| 126.6 |
| 41.6 |
| 0.0 |

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