

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: P943710

Luminaire Tested: **GLAN-SB8B-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40050 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

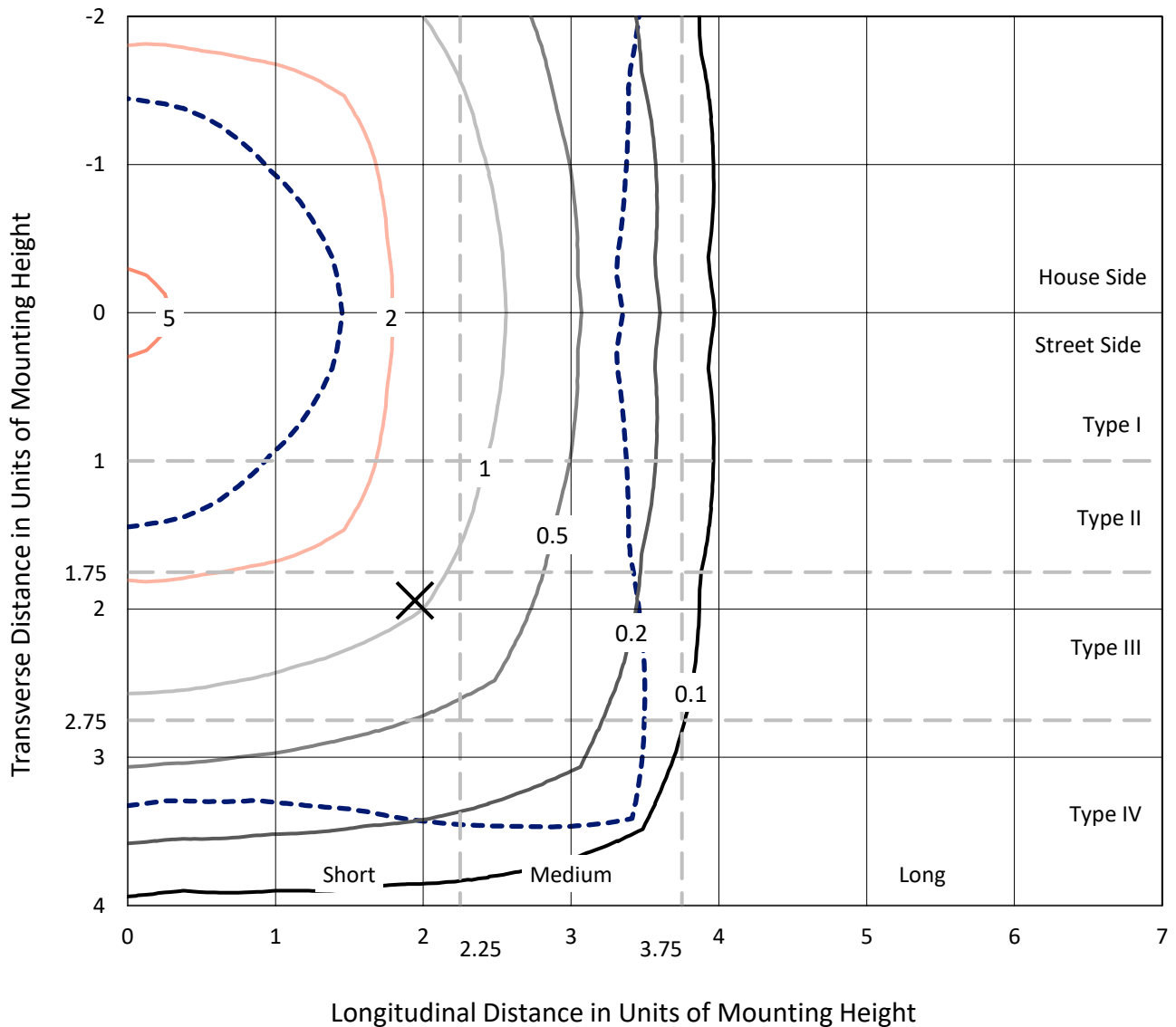
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

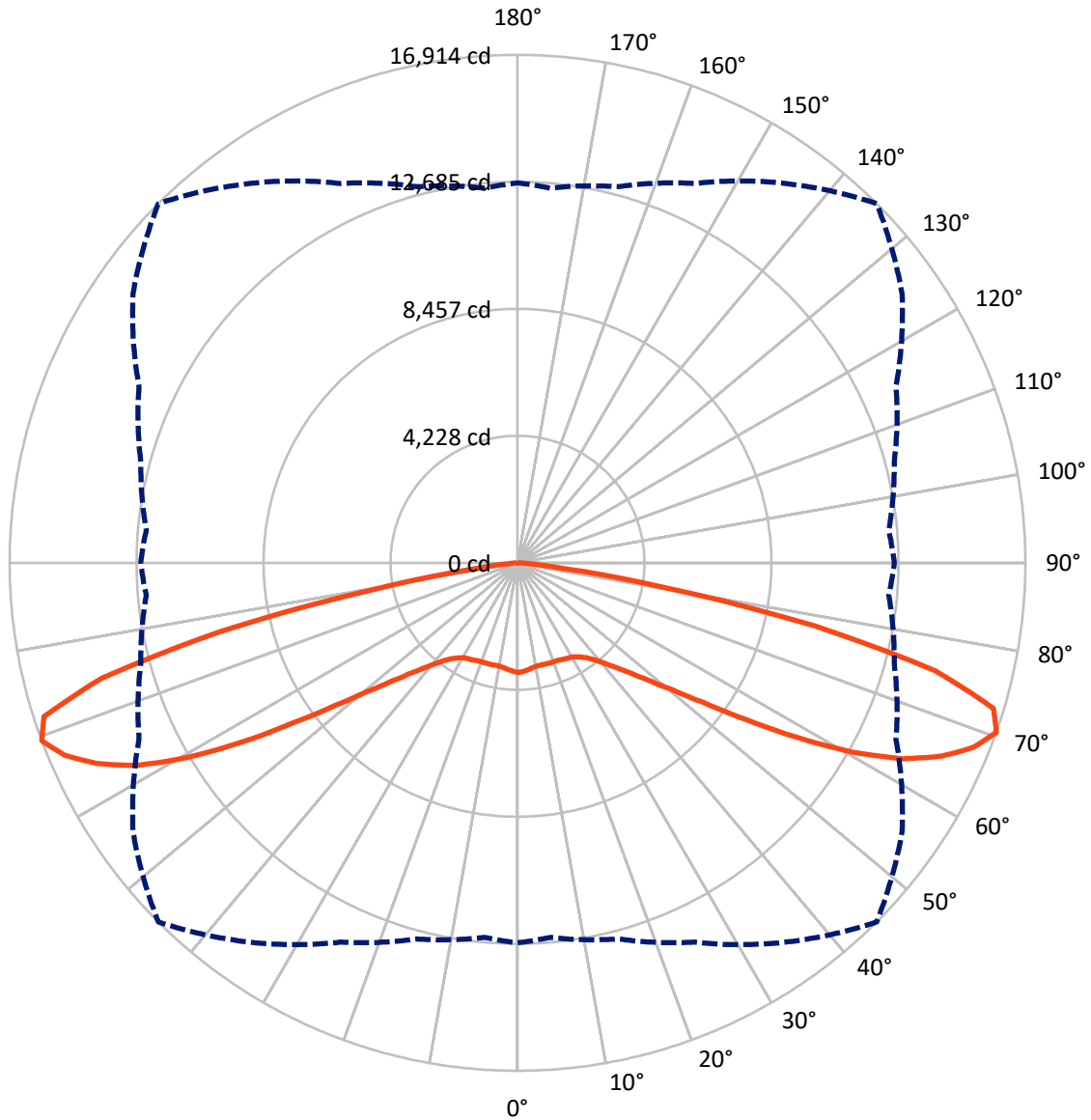
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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 | 20025.0 | 0.0 | 20025.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20025.0 | 0.0 | 20025.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 40050.0 | 0.0 | 40050.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 339.8 | 0.8 |
| 10°-20° | 997.9 | 2.5 |
| 20°-30° | 1660.6 | 4.1 |
| 30°-40° | 2511.3 | 6.3 |
| 40°-50° | 4173.3 | 10.4 |
| 50°-60° | 7874.8 | 19.7 |
| 60°-70° | 13297.0 | 33.2 |
| 70°-80° | 8737.5 | 21.8 |
| 80°-90° | 457.8 | 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° | 40050.0 | 100.0 |
| 0°-180° | 40050.0 | 100.0 |

Coefficient of Utilization

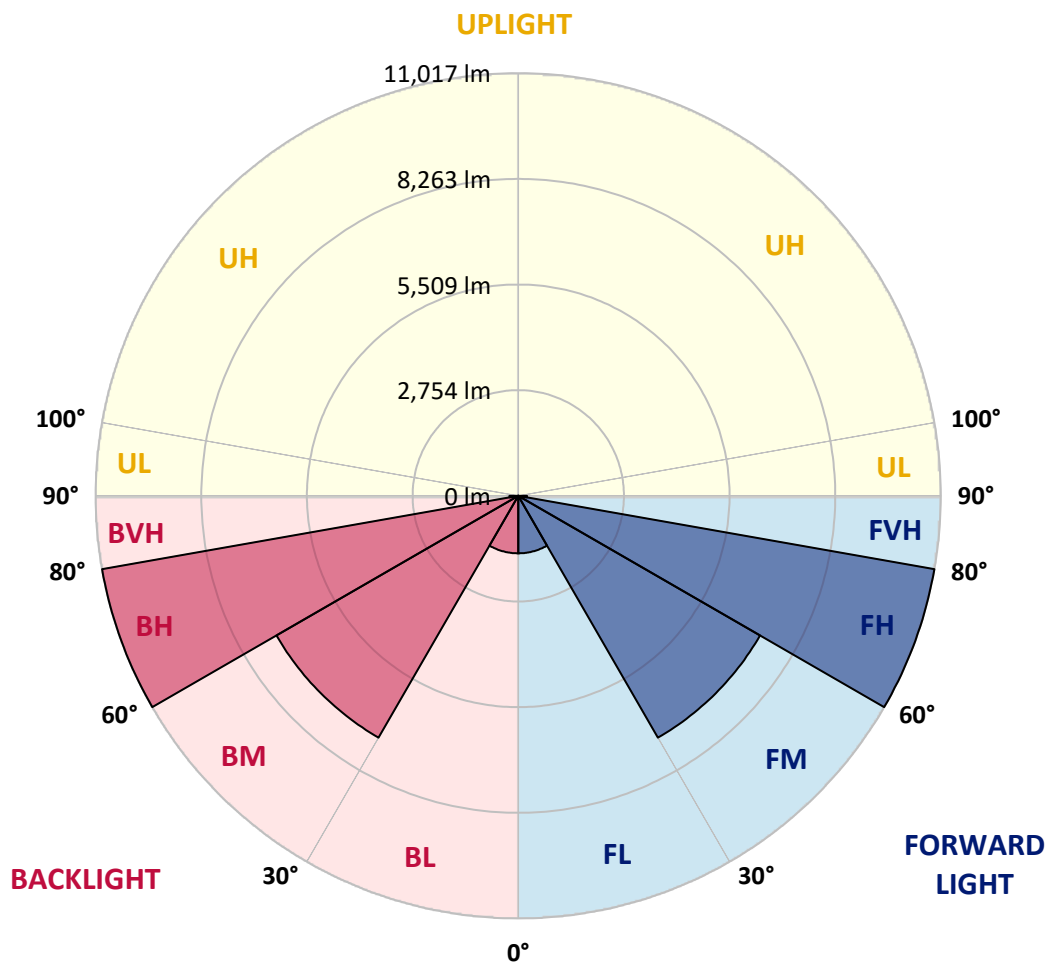


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1499.2 | 3.7 | | | |
| FM (30°-60°) | 7279.7 | 18.2 | | | |
| FH (60°-80°) | 11017.2 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 228.9 | 0.6 | | | G3/500 |
| BL (0°-30°) | 1499.2 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 7279.7 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 11017.2 | 27.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 228.9 | 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-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3653.4 | 3653.4 | 3653.4 | 3653.4 | 3653.4 | 3653.4 | 3653.4 | 3653.4 | 3653.4 | 3653.4 |
| 2.5° | 3630.5 | 3640.9 | 3636.7 | 3628.4 | 3628.4 | 3622.1 | 3628.4 | 3632.5 | 3638.8 | 3643.0 |
| 5° | 3582.6 | 3590.9 | 3588.8 | 3582.6 | 3584.7 | 3578.4 | 3582.6 | 3588.8 | 3593.0 | 3595.1 |
| 7.5° | 3541.0 | 3549.3 | 3545.1 | 3534.7 | 3534.7 | 3528.5 | 3530.5 | 3536.8 | 3543.0 | 3545.1 |
| 10° | 3530.5 | 3538.9 | 3526.4 | 3509.7 | 3503.5 | 3495.2 | 3497.2 | 3503.5 | 3516.0 | 3522.2 |
| 12.5° | 3534.7 | 3541.0 | 3528.5 | 3503.5 | 3497.2 | 3488.9 | 3488.9 | 3495.2 | 3511.8 | 3520.1 |
| 15° | 3547.2 | 3553.4 | 3534.7 | 3507.6 | 3501.4 | 3495.2 | 3493.1 | 3501.4 | 3520.1 | 3534.7 |
| 17.5° | 3570.1 | 3576.3 | 3547.2 | 3509.7 | 3501.4 | 3503.5 | 3501.4 | 3507.6 | 3536.8 | 3563.9 |
| 20° | 3590.9 | 3595.1 | 3555.5 | 3509.7 | 3501.4 | 3503.5 | 3501.4 | 3513.9 | 3551.4 | 3588.8 |
| 22.5° | 3597.2 | 3601.3 | 3563.9 | 3524.3 | 3518.1 | 3520.1 | 3518.1 | 3530.5 | 3565.9 | 3603.4 |
| 25° | 3599.2 | 3605.5 | 3576.3 | 3545.1 | 3555.5 | 3559.7 | 3555.5 | 3557.6 | 3584.7 | 3618.0 |
| 27.5° | 3630.5 | 3638.8 | 3611.7 | 3584.7 | 3590.9 | 3588.8 | 3595.1 | 3601.3 | 3622.1 | 3655.4 |
| 30° | 3695.0 | 3701.2 | 3678.3 | 3651.3 | 3647.1 | 3632.5 | 3651.3 | 3672.1 | 3695.0 | 3724.1 |
| 32.5° | 3801.2 | 3813.7 | 3784.5 | 3755.4 | 3736.6 | 3728.3 | 3742.9 | 3778.3 | 3809.5 | 3840.7 |
| 35° | 3978.1 | 3986.4 | 3959.4 | 3905.3 | 3871.9 | 3871.9 | 3884.4 | 3930.2 | 3980.2 | 4019.7 |
| 37.5° | 4227.9 | 4238.3 | 4190.4 | 4125.9 | 4075.9 | 4075.9 | 4092.6 | 4140.5 | 4215.4 | 4271.6 |
| 40° | 4531.8 | 4546.4 | 4486.0 | 4419.4 | 4371.5 | 4363.2 | 4384.0 | 4438.2 | 4508.9 | 4579.7 |
| 42.5° | 4898.2 | 4914.9 | 4835.8 | 4777.5 | 4740.0 | 4740.0 | 4750.4 | 4800.4 | 4864.9 | 4952.3 |
| 45° | 5366.6 | 5395.7 | 5287.5 | 5229.2 | 5193.8 | 5202.1 | 5208.4 | 5252.1 | 5310.4 | 5410.3 |
| 47.5° | 5924.5 | 5953.6 | 5839.1 | 5778.8 | 5772.5 | 5812.1 | 5787.1 | 5818.3 | 5849.5 | 5964.0 |
| 50° | 6557.3 | 6607.3 | 6528.2 | 6524.0 | 6536.5 | 6609.4 | 6551.1 | 6567.7 | 6532.3 | 6605.2 |
| 52.5° | 7331.7 | 7404.6 | 7390.0 | 7415.0 | 7554.5 | 7704.3 | 7571.1 | 7512.8 | 7379.6 | 7402.5 |
| 55° | 8270.6 | 8380.9 | 8401.7 | 8551.6 | 8868.0 | 9174.0 | 8890.9 | 8655.7 | 8372.6 | 8320.5 |
| 57.5° | 9338.5 | 9425.9 | 9525.8 | 9831.8 | 10423.0 | 10966.3 | 10423.0 | 9902.6 | 9457.1 | 9351.0 |
| 60° | 10487.6 | 10595.8 | 10691.6 | 11143.3 | 12021.8 | 12785.7 | 12005.1 | 11178.7 | 10589.6 | 10445.9 |
| 62.5° | 11722.0 | 11861.5 | 11928.1 | 12429.8 | 13454.0 | 14365.7 | 13468.5 | 12467.2 | 11813.6 | 11659.5 |
| 65° | 12906.5 | 13021.0 | 13095.9 | 13630.9 | 14609.3 | 15523.2 | 14675.9 | 13689.2 | 13016.8 | 12814.9 |
| 67.5° | 13458.1 | 13520.6 | 13703.8 | 14309.5 | 15342.1 | 16385.0 | 15516.9 | 14374.1 | 13622.6 | 13268.7 |
| 70° | 12650.4 | 12523.4 | 12964.8 | 13934.8 | 15429.5 | 16913.7 | 15629.3 | 13905.7 | 12985.6 | 12411.0 |
| 72.5° | 9775.6 | 9557.0 | 10323.1 | 11982.2 | 14430.3 | 16576.5 | 14530.2 | 12075.9 | 10799.8 | 9634.1 |
| 75° | 5318.7 | 5071.0 | 6128.5 | 8226.8 | 11507.6 | 14367.8 | 11772.0 | 8462.1 | 6823.8 | 5279.2 |
| 77.5° | 1500.9 | 1407.2 | 2260.7 | 3980.2 | 6921.6 | 10087.9 | 7188.1 | 4067.6 | 2681.2 | 1590.4 |
| 80° | 460.1 | 445.5 | 603.7 | 1199.1 | 2939.3 | 4831.6 | 2824.9 | 1213.6 | 768.1 | 485.0 |
| 82.5° | 272.7 | 249.8 | 299.8 | 437.2 | 749.4 | 1517.6 | 728.6 | 455.9 | 366.4 | 245.6 |
| 85° | 156.1 | 145.7 | 176.9 | 212.3 | 251.9 | 322.7 | 210.3 | 216.5 | 195.7 | 131.1 |
| 87.5° | 64.5 | 58.3 | 68.7 | 66.6 | 58.3 | 74.9 | 56.2 | 66.6 | 79.1 | 52.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 3653.4 |
| 3640.9 |
| 3595.1 |
| 3545.1 |
| 3522.2 |
| 3522.2 |
| 3536.8 |
| 3563.9 |
| 3590.9 |
| 3603.4 |
| 3615.9 |
| 3647.1 |
| 3717.9 |
| 3828.2 |
| 4005.2 |
| 4250.8 |
| 4556.8 |
| 4946.1 |
| 5406.1 |
| 5930.7 |
| 6561.5 |
| 7325.5 |
| 8239.3 |
| 9276.0 |
| 10321.0 |
| 11534.6 |
| 12715.0 |
| 13272.9 |
| 12548.4 |
| 9923.4 |
| 5622.6 |
| 1767.4 |
| 512.1 |
| 266.5 |
| 137.4 |
| 47.9 |
| 0.0 |

OF REPORT)