

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: P954263

Luminaire Tested: **GALN-SB7C-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954263
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-SB7C-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47691 lumens
Efficiency: N/A
Efficacy: 136.1 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

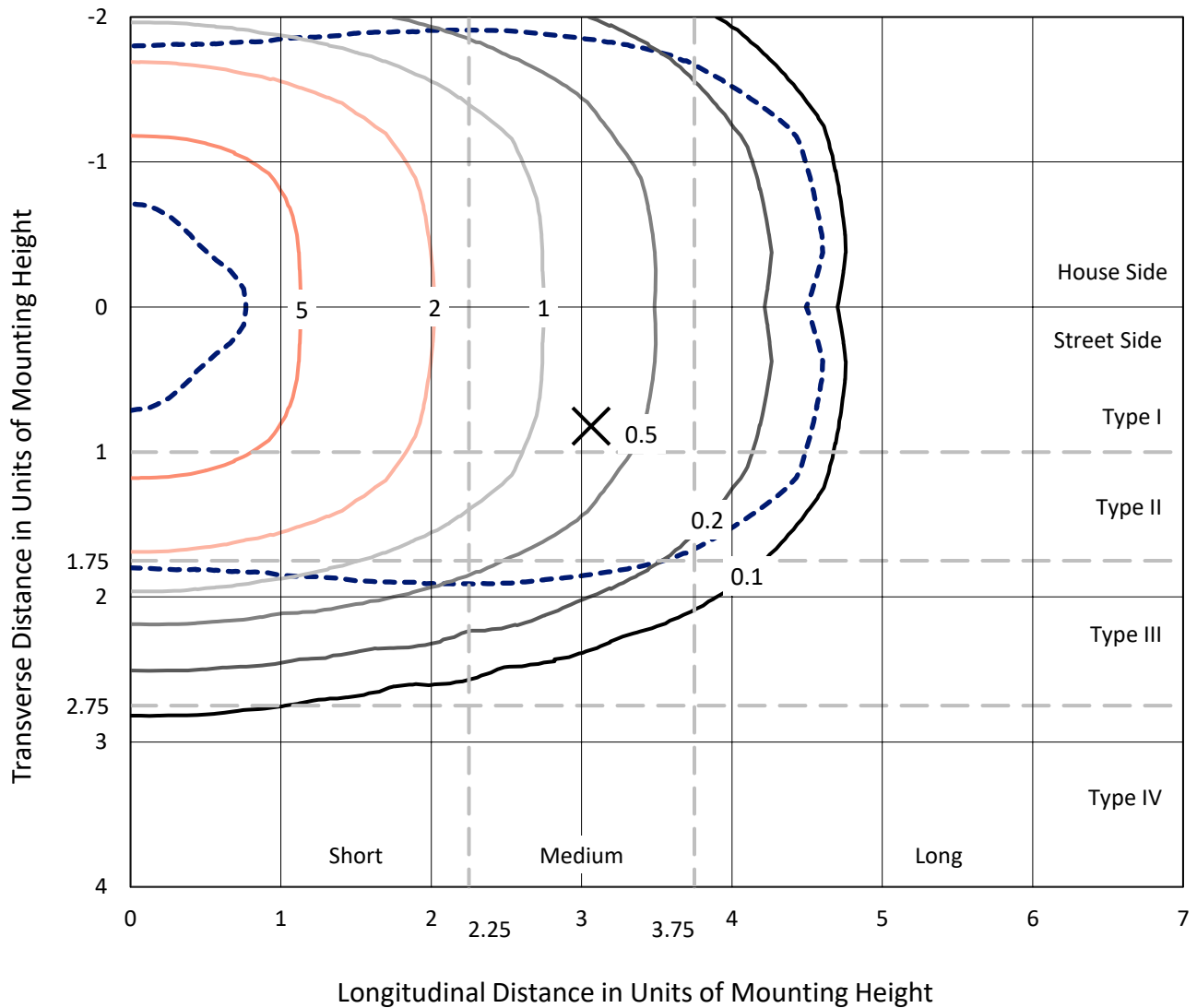
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

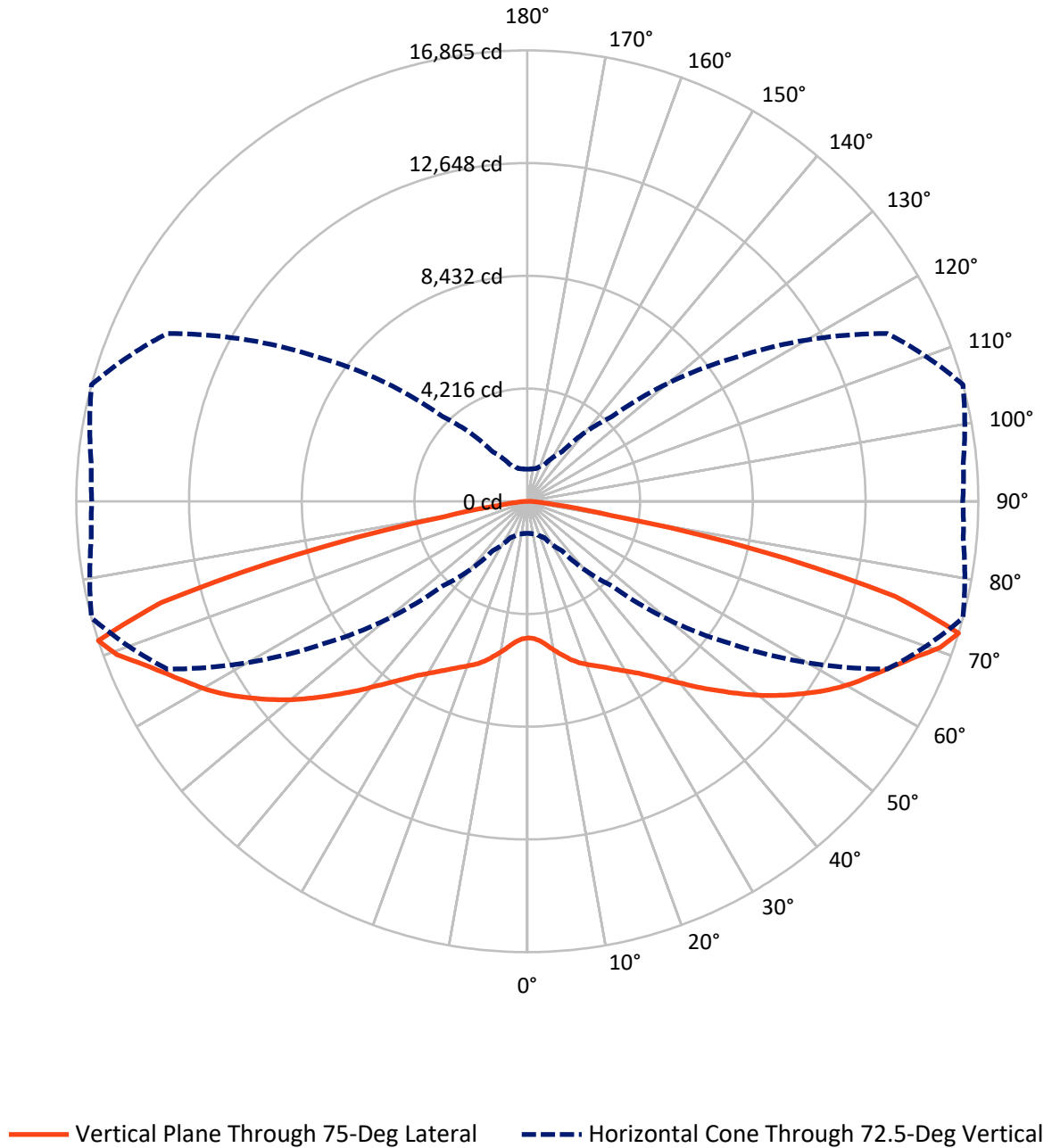
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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 | 23845.5 | 0.0 | 23845.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23845.5 | 0.0 | 23845.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 47691.0 | 0.0 | 47691.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 500.4 | 1.0 |
| 10°-20° | 1650.5 | 3.5 |
| 20°-30° | 3189.3 | 6.7 |
| 30°-40° | 5385.3 | 11.3 |
| 40°-50° | 8540.4 | 17.9 |
| 50°-60° | 11434.6 | 24.0 |
| 60°-70° | 10882.1 | 22.8 |
| 70°-80° | 5678.5 | 11.9 |
| 80°-90° | 429.8 | 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° | 47691.0 | 100.0 |
| 0°-180° | 47691.0 | 100.0 |

Coefficient of Utilization



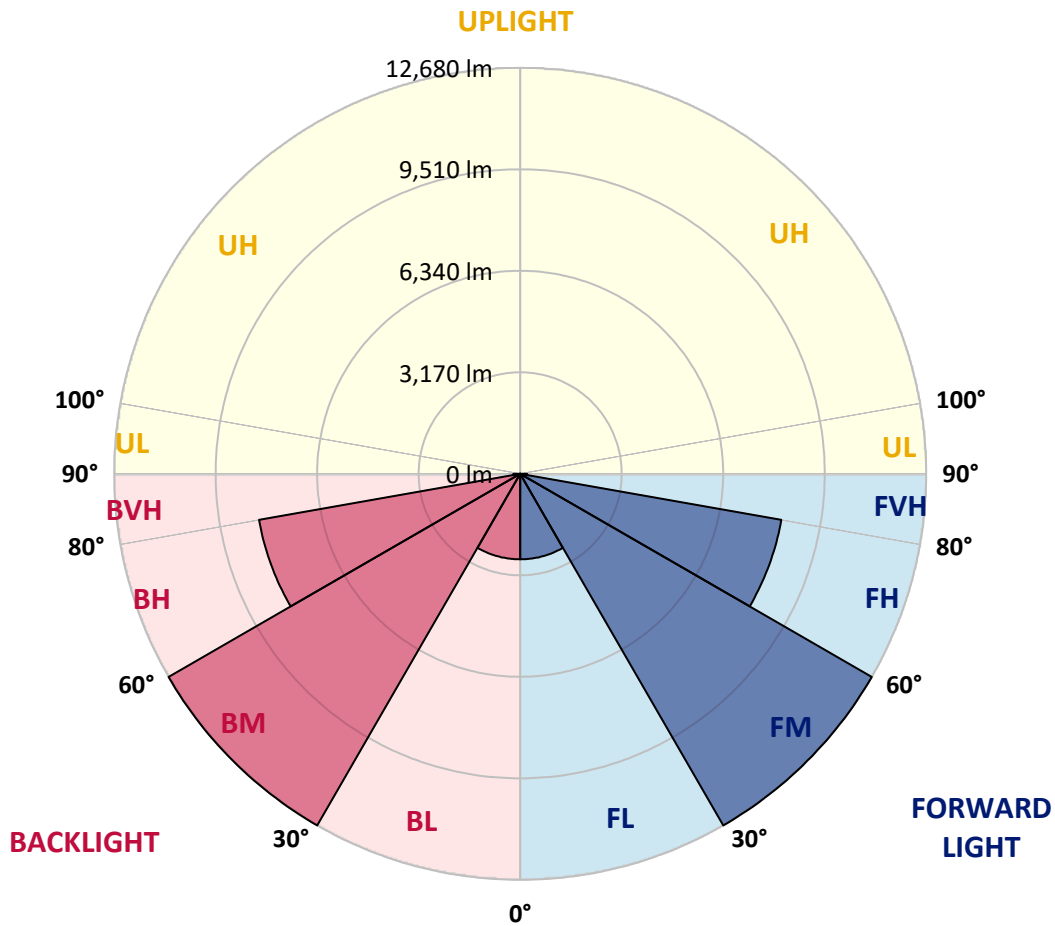
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2670.1 | 5.6 | | | |
| FM (30°-60°) | 12680.2 | 26.6 | | | |
| FH (60°-80°) | 8280.3 | 17.4 | | | G4/12000 |
| FVH (80°-90°) | 214.9 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2670.1 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 12680.2 | 26.6 | B5 | | |
| BH (60°-80°) | 8280.3 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 214.9 | 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° | 5108.6 | 5108.6 | 5108.6 | 5108.6 | 5108.6 | 5108.6 | 5108.6 | 5108.6 | 5108.6 | 5108.6 |
| 2.5° | 5108.6 | 5103.7 | 5108.6 | 5113.4 | 5111.0 | 5111.0 | 5123.2 | 5130.5 | 5145.1 | 5142.6 |
| 5° | 5074.5 | 5072.0 | 5091.5 | 5113.4 | 5130.5 | 5159.7 | 5196.2 | 5223.0 | 5257.1 | 5264.4 |
| 7.5° | 5057.4 | 5050.1 | 5084.2 | 5123.2 | 5176.7 | 5249.8 | 5320.4 | 5393.5 | 5451.9 | 5471.4 |
| 10° | 5069.6 | 5072.0 | 5118.3 | 5191.3 | 5276.6 | 5378.8 | 5478.7 | 5602.9 | 5685.6 | 5705.1 |
| 12.5° | 5125.6 | 5120.7 | 5198.7 | 5315.5 | 5432.4 | 5561.5 | 5678.3 | 5814.7 | 5904.8 | 5951.1 |
| 15° | 5227.9 | 5218.1 | 5327.7 | 5500.6 | 5671.0 | 5822.0 | 5917.0 | 6046.0 | 6150.7 | 6209.2 |
| 17.5° | 5349.6 | 5354.5 | 5498.2 | 5722.2 | 5946.2 | 6116.6 | 6206.7 | 6272.5 | 6352.8 | 6404.0 |
| 20° | 5563.9 | 5573.6 | 5734.3 | 5999.8 | 6255.4 | 6450.2 | 6523.3 | 6498.9 | 6520.8 | 6559.8 |
| 22.5° | 5851.2 | 5856.1 | 6036.3 | 6323.6 | 6591.5 | 6805.7 | 6854.4 | 6754.6 | 6693.7 | 6720.5 |
| 25° | 6184.8 | 6216.5 | 6396.7 | 6691.3 | 6966.4 | 7171.0 | 7192.9 | 7041.9 | 6891.0 | 6898.3 |
| 27.5° | 6591.5 | 6620.7 | 6803.3 | 7095.5 | 7375.5 | 7553.3 | 7550.8 | 7348.7 | 7127.1 | 7071.1 |
| 30° | 7032.2 | 7063.8 | 7251.3 | 7553.3 | 7813.8 | 7969.6 | 7935.6 | 7694.5 | 7377.9 | 7273.2 |
| 32.5° | 7555.7 | 7575.2 | 7765.1 | 8067.0 | 8308.1 | 8432.3 | 8361.7 | 8064.6 | 7670.1 | 7550.8 |
| 35° | 8188.8 | 8218.0 | 8359.2 | 8644.1 | 8856.0 | 8958.2 | 8838.9 | 8488.3 | 8045.1 | 7911.2 |
| 37.5° | 8912.0 | 8892.5 | 9053.2 | 9306.4 | 9481.8 | 9545.1 | 9381.9 | 8965.5 | 8473.7 | 8315.4 |
| 40° | 9666.8 | 9657.1 | 9832.4 | 10075.9 | 10170.9 | 10209.8 | 9968.8 | 9513.4 | 8968.0 | 8797.5 |
| 42.5° | 10351.0 | 10343.7 | 10579.9 | 10850.2 | 10964.7 | 10920.8 | 10616.5 | 10095.4 | 9540.2 | 9345.4 |
| 45° | 10898.9 | 10889.2 | 11178.9 | 11558.8 | 11782.8 | 11709.8 | 11300.7 | 10738.2 | 10119.7 | 9917.6 |
| 47.5° | 11320.2 | 11325.0 | 11636.7 | 12106.7 | 12498.7 | 12525.5 | 11999.5 | 11393.2 | 10757.7 | 10528.8 |
| 50° | 11624.5 | 11639.1 | 11972.7 | 12493.8 | 13029.5 | 13265.7 | 12713.0 | 12065.3 | 11417.6 | 11159.5 |
| 52.5° | 11700.0 | 11726.8 | 12128.6 | 12739.7 | 13370.4 | 13820.9 | 13438.6 | 12710.5 | 12043.3 | 11797.4 |
| 55° | 11298.2 | 11351.8 | 11860.7 | 12720.3 | 13579.8 | 14186.1 | 14076.5 | 13365.5 | 12674.0 | 12420.8 |
| 57.5° | 10375.4 | 10450.9 | 11045.0 | 12167.5 | 13533.5 | 14436.9 | 14570.8 | 13993.8 | 13304.7 | 13061.2 |
| 60° | 9082.4 | 9172.5 | 9742.3 | 10967.1 | 12881.0 | 14529.4 | 14919.0 | 14604.9 | 13884.2 | 13648.0 |
| 62.5° | 7132.0 | 7248.9 | 7930.7 | 9367.3 | 11502.8 | 14098.5 | 15216.1 | 15157.7 | 14405.3 | 14110.6 |
| 65° | 4575.3 | 4699.5 | 5417.8 | 7115.0 | 9664.4 | 12778.7 | 15308.6 | 15695.8 | 14955.6 | 14544.1 |
| 67.5° | 2758.8 | 2814.8 | 3170.3 | 4312.3 | 7063.8 | 10789.3 | 14524.6 | 16292.4 | 15598.4 | 15087.1 |
| 70° | 1765.4 | 1797.0 | 2008.8 | 2532.4 | 3993.3 | 7872.2 | 12581.5 | 16404.4 | 16377.6 | 15644.7 |
| 72.5° | 1198.0 | 1207.7 | 1263.7 | 1499.9 | 2259.6 | 4473.0 | 9279.7 | 14850.9 | 16864.6 | 16363.0 |
| 75° | 876.6 | 930.2 | 1020.3 | 1061.6 | 1283.2 | 2235.3 | 5318.0 | 10433.8 | 14212.9 | 14432.0 |
| 77.5° | 652.6 | 655.0 | 779.2 | 827.9 | 915.5 | 1190.7 | 2249.9 | 5824.4 | 8824.3 | 9265.0 |
| 80° | 552.7 | 523.5 | 521.1 | 667.2 | 689.1 | 742.7 | 1005.6 | 2011.3 | 3160.6 | 1916.3 |
| 82.5° | 460.2 | 428.6 | 387.2 | 521.1 | 469.9 | 455.3 | 435.9 | 818.1 | 1005.6 | 494.3 |
| 85° | 321.4 | 306.8 | 292.2 | 340.9 | 267.8 | 228.9 | 209.4 | 382.3 | 423.7 | 209.4 |
| 87.5° | 138.8 | 143.7 | 146.1 | 151.0 | 112.0 | 80.4 | 80.4 | 107.1 | 107.1 | 82.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 5108.6 |
| 5140.2 |
| 5264.4 |
| 5476.2 |
| 5724.6 |
| 5970.5 |
| 6231.1 |
| 6428.3 |
| 6589.0 |
| 6740.0 |
| 6910.4 |
| 7088.2 |
| 7285.4 |
| 7580.1 |
| 7930.7 |
| 8344.6 |
| 8853.5 |
| 9394.1 |
| 9963.9 |
| 10597.0 |
| 11237.4 |
| 11860.7 |
| 12491.4 |
| 13117.2 |
| 13699.1 |
| 14144.7 |
| 14595.2 |
| 15126.0 |
| 15639.8 |
| 16285.1 |
| 13901.2 |
| 8264.3 |
| 1448.8 |
| 421.2 |
| 185.1 |
| 60.9 |
| 0.0 |

OF REPORT)