

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: P947665

Luminaire Tested: **GALN-SB2D-950-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2D-950-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

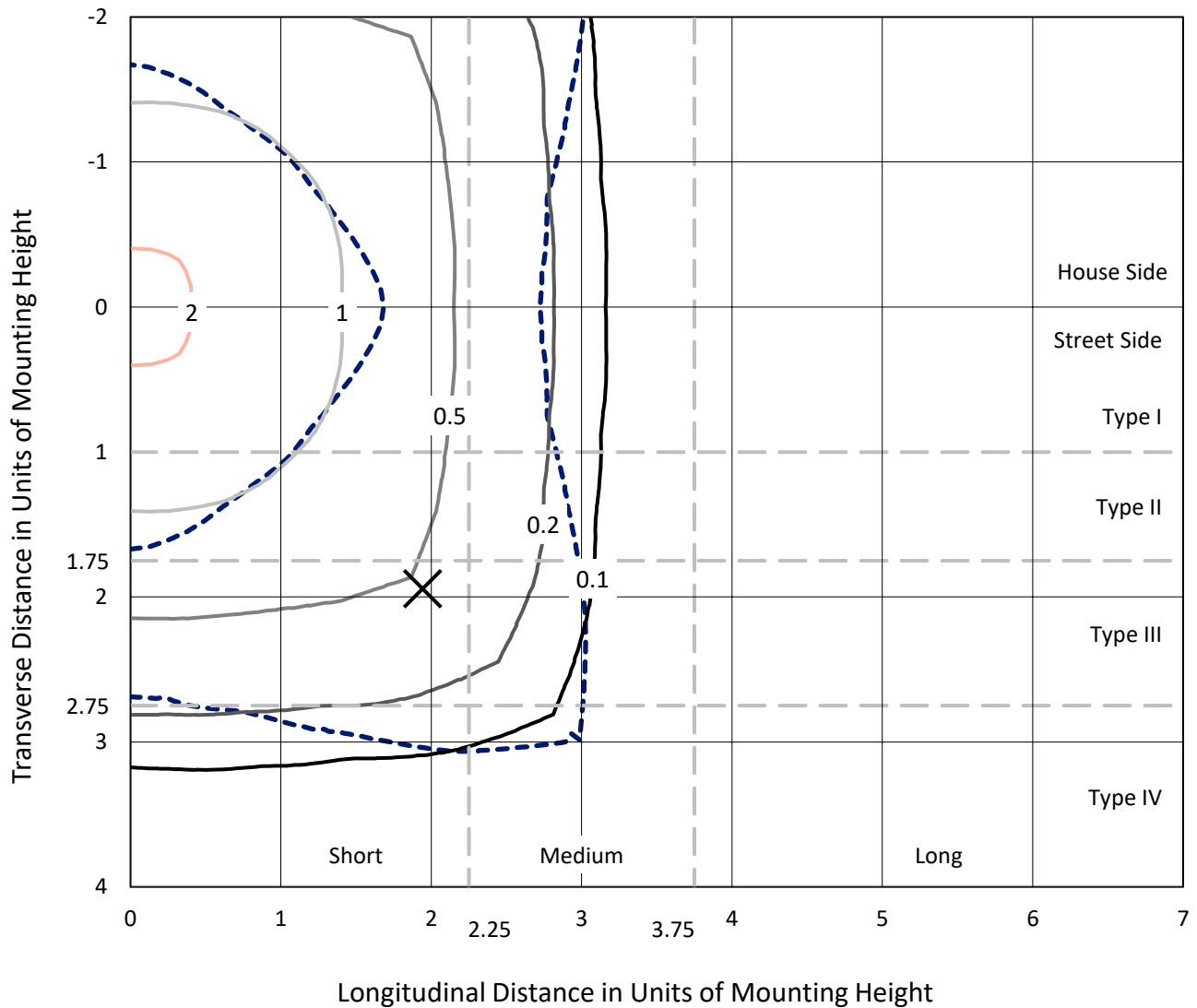
Lumens per Lamp: N/A  
Luminaire Lumens: 14826 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

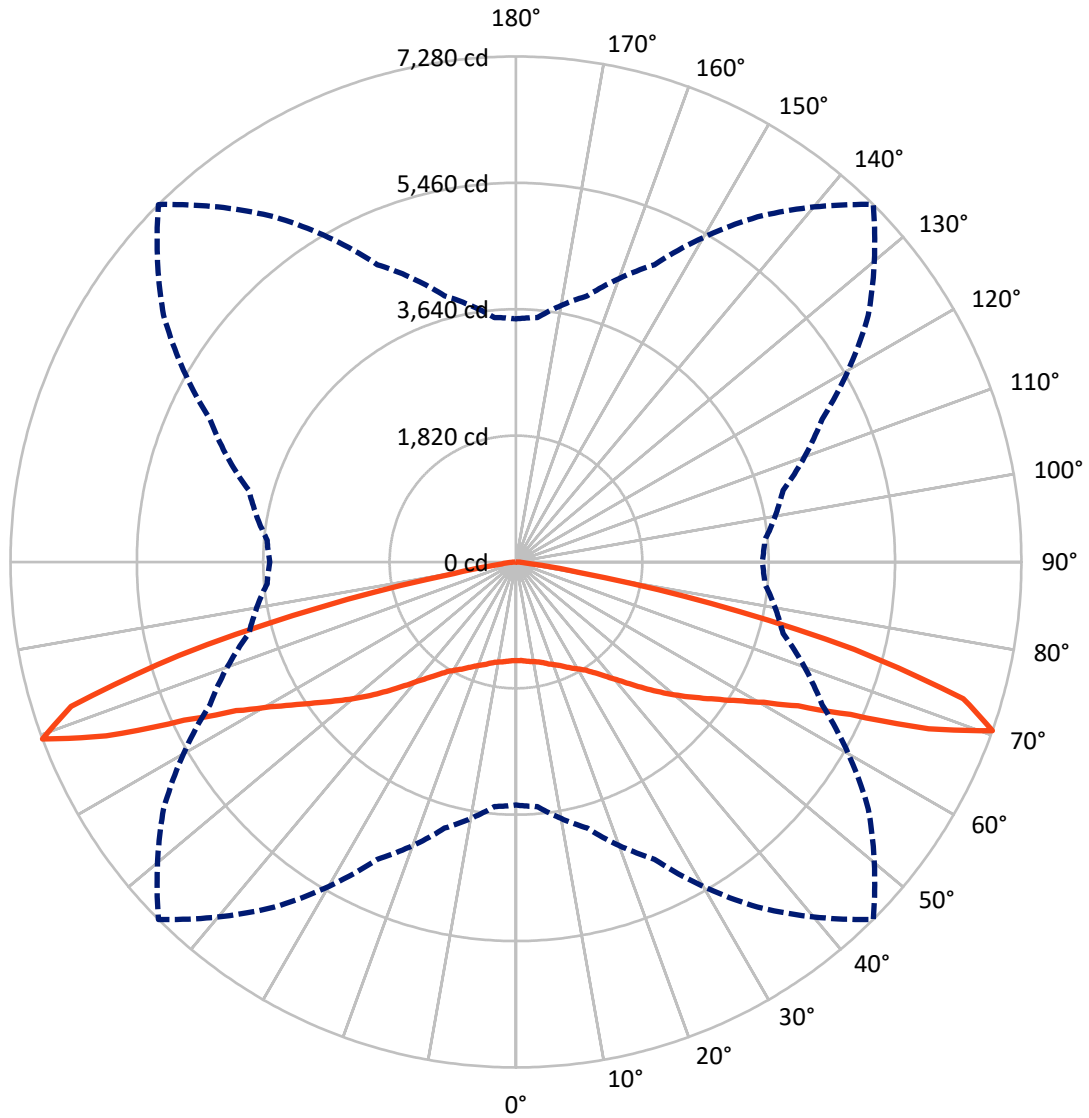
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7413.0   | 0.0    | 7413.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7413.0   | 0.0    | 7413.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14826.0  | 0.0    | 14826.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 138.0   | 0.9       |
| 10°-20°   | 427.8   | 2.9       |
| 20°-30°   | 764.6   | 5.2       |
| 30°-40°   | 1239.4  | 8.4       |
| 40°-50°   | 2018.7  | 13.6      |
| 50°-60°   | 3077.9  | 20.8      |
| 60°-70°   | 4578.9  | 30.9      |
| 70°-80°   | 2495.7  | 16.8      |
| 80°-90°   | 85.0    | 0.6       |
| 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°    | 14826.0 | 100.0     |
| 0°-180°   | 14826.0 | 100.0     |

**Coefficient of Utilization**



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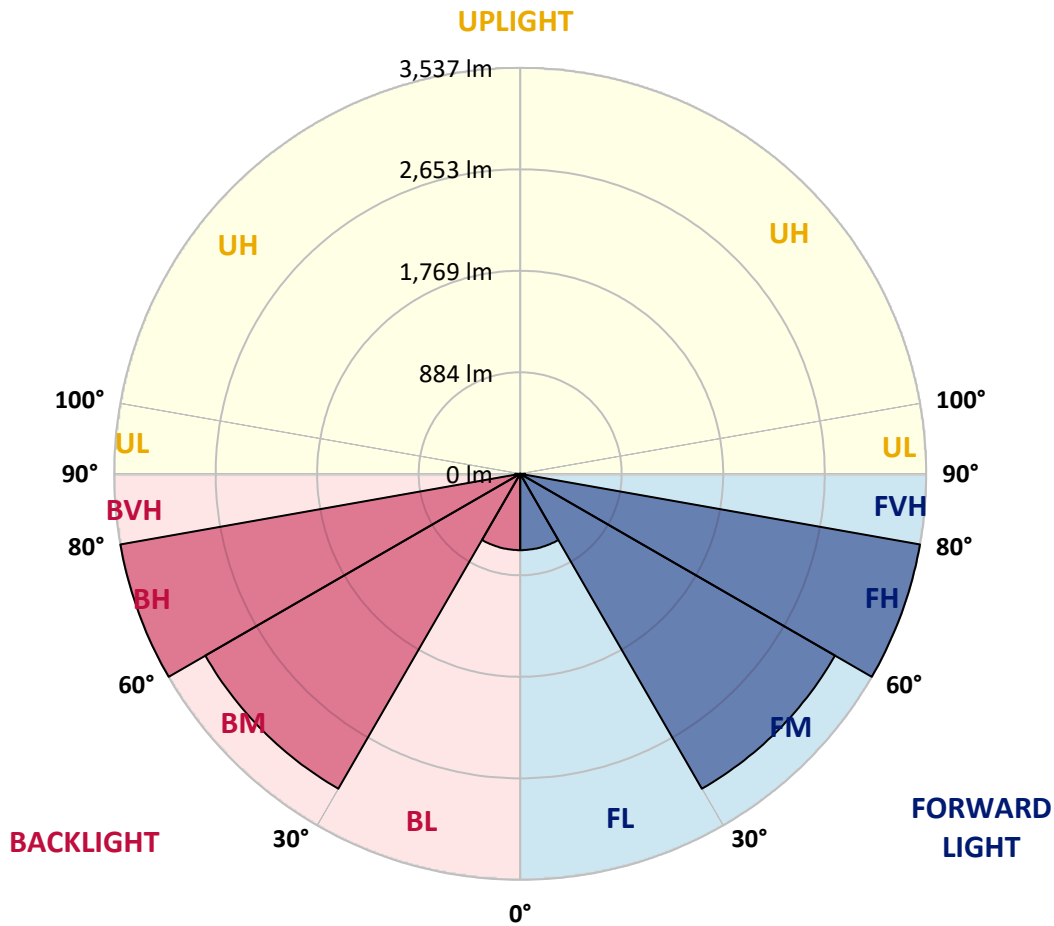
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 665.2  | 4.5       |                         |      |         |
| FM (30°-60°)   | 3168.0 | 21.4      |                         |      |         |
| FH (60°-80°)   | 3537.3 | 23.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 42.5   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 665.2  | 4.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 3168.0 | 21.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 3537.3 | 23.9      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 42.5   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1420.2 | 1420.2 | 1420.2 | 1420.2 | 1420.2 | 1420.2 | 1420.2 | 1420.2 | 1420.2 | 1420.2 |
| 2.5°  | 1426.9 | 1428.4 | 1425.4 | 1423.9 | 1422.4 | 1420.2 | 1420.9 | 1424.6 | 1427.6 | 1426.9 |
| 5°    | 1438.8 | 1440.3 | 1438.0 | 1437.3 | 1434.3 | 1433.6 | 1433.6 | 1437.3 | 1439.5 | 1438.0 |
| 7.5°  | 1452.2 | 1454.4 | 1450.7 | 1450.0 | 1448.5 | 1447.0 | 1446.2 | 1450.0 | 1452.2 | 1452.2 |
| 10°   | 1464.8 | 1467.1 | 1464.1 | 1461.9 | 1460.4 | 1460.4 | 1458.9 | 1461.9 | 1465.6 | 1464.8 |
| 12.5° | 1478.2 | 1479.7 | 1476.7 | 1475.3 | 1475.3 | 1477.5 | 1475.3 | 1476.7 | 1479.7 | 1478.2 |
| 15°   | 1494.6 | 1495.4 | 1494.6 | 1496.8 | 1500.6 | 1508.0 | 1501.3 | 1499.8 | 1501.3 | 1497.6 |
| 17.5° | 1516.9 | 1518.4 | 1521.4 | 1526.6 | 1531.8 | 1545.2 | 1533.3 | 1529.6 | 1529.6 | 1522.2 |
| 20°   | 1544.5 | 1546.7 | 1551.2 | 1560.1 | 1566.8 | 1579.5 | 1567.6 | 1562.3 | 1560.1 | 1550.4 |
| 22.5° | 1573.5 | 1577.2 | 1583.9 | 1595.8 | 1607.7 | 1619.7 | 1607.7 | 1598.8 | 1592.1 | 1579.5 |
| 25°   | 1607.0 | 1611.5 | 1621.9 | 1641.2 | 1657.6 | 1674.7 | 1660.6 | 1642.7 | 1629.3 | 1611.5 |
| 27.5° | 1654.6 | 1659.9 | 1672.5 | 1696.3 | 1717.2 | 1732.1 | 1718.7 | 1695.6 | 1677.0 | 1655.4 |
| 30°   | 1721.6 | 1726.8 | 1741.7 | 1767.0 | 1781.2 | 1790.9 | 1781.9 | 1764.1 | 1741.7 | 1717.2 |
| 32.5° | 1808.0 | 1814.7 | 1831.0 | 1854.9 | 1857.8 | 1859.3 | 1856.4 | 1847.4 | 1831.0 | 1801.3 |
| 35°   | 1917.4 | 1924.8 | 1943.4 | 1962.8 | 1959.8 | 1962.8 | 1958.3 | 1955.3 | 1943.4 | 1909.2 |
| 37.5° | 2051.4 | 2060.3 | 2079.7 | 2094.5 | 2087.1 | 2083.4 | 2084.1 | 2084.9 | 2078.2 | 2040.2 |
| 40°   | 2206.9 | 2218.8 | 2233.0 | 2248.6 | 2236.0 | 2224.8 | 2232.2 | 2238.2 | 2232.2 | 2193.5 |
| 42.5° | 2367.0 | 2384.1 | 2399.0 | 2421.3 | 2410.9 | 2396.7 | 2407.2 | 2413.9 | 2401.2 | 2359.5 |
| 45°   | 2544.9 | 2561.2 | 2580.6 | 2614.1 | 2606.6 | 2591.7 | 2606.6 | 2608.1 | 2586.5 | 2537.4 |
| 47.5° | 2728.7 | 2745.8 | 2774.9 | 2819.5 | 2816.5 | 2800.2 | 2819.5 | 2809.1 | 2781.6 | 2722.8 |
| 50°   | 2902.9 | 2926.7 | 2971.4 | 3033.9 | 3039.8 | 3019.7 | 3045.8 | 3025.7 | 2979.5 | 2905.9 |
| 52.5° | 3066.6 | 3091.9 | 3162.6 | 3247.5 | 3269.1 | 3243.0 | 3278.0 | 3243.0 | 3173.8 | 3079.3 |
| 55°   | 3238.6 | 3266.9 | 3351.0 | 3461.9 | 3505.0 | 3485.7 | 3518.4 | 3465.6 | 3367.3 | 3252.7 |
| 57.5° | 3441.0 | 3458.1 | 3558.6 | 3690.4 | 3763.3 | 3767.8 | 3782.7 | 3693.4 | 3574.3 | 3444.0 |
| 60°   | 3660.6 | 3684.4 | 3793.8 | 3951.6 | 4067.0 | 4104.2 | 4088.6 | 3956.1 | 3817.7 | 3668.0 |
| 62.5° | 3942.0 | 3968.0 | 4099.0 | 4288.1 | 4470.4 | 4562.7 | 4501.7 | 4309.7 | 4138.5 | 3959.1 |
| 65°   | 4174.9 | 4204.0 | 4440.7 | 4777.8 | 5109.8 | 5295.1 | 5141.8 | 4788.3 | 4480.1 | 4227.0 |
| 67.5° | 4006.0 | 4041.7 | 4413.1 | 5032.4 | 5857.9 | 6410.9 | 5886.1 | 5108.3 | 4504.7 | 4161.5 |
| 70°   | 3501.3 | 3534.8 | 3968.0 | 4725.0 | 6068.5 | 7280.3 | 6195.0 | 4864.2 | 3982.2 | 3598.1 |
| 72.5° | 2324.5 | 2432.5 | 2870.9 | 3779.0 | 5418.7 | 6736.9 | 5472.3 | 3702.3 | 2663.2 | 2319.3 |
| 75°   | 771.1  | 857.5  | 1156.7 | 1959.1 | 3629.3 | 5038.4 | 3455.2 | 1733.5 | 916.3  | 659.5  |
| 77.5° | 194.3  | 224.0  | 308.9  | 560.5  | 1447.7 | 2868.6 | 1303.3 | 457.8  | 249.3  | 174.2  |
| 80°   | 94.5   | 104.2  | 148.9  | 186.8  | 362.5  | 911.8  | 340.2  | 175.7  | 117.6  | 90.8   |
| 82.5° | 52.1   | 52.8   | 84.1   | 105.7  | 134.7  | 236.0  | 139.9  | 102.7  | 67.7   | 55.1   |
| 85°   | 32.0   | 31.3   | 44.7   | 56.6   | 56.6   | 84.1   | 67.0   | 56.6   | 38.7   | 34.2   |
| 87.5° | 12.7   | 12.7   | 16.4   | 17.9   | 15.6   | 21.6   | 17.1   | 18.6   | 14.9   | 14.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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| 90°    |
|--------|
| 1420.2 |
| 1427.6 |
| 1438.8 |
| 1452.2 |
| 1464.8 |
| 1477.5 |
| 1497.6 |
| 1522.2 |
| 1550.4 |
| 1578.7 |
| 1610.7 |
| 1654.6 |
| 1717.2 |
| 1802.0 |
| 1909.2 |
| 2040.2 |
| 2193.5 |
| 2362.5 |
| 2542.6 |
| 2719.0 |
| 2904.4 |
| 3070.4 |
| 3237.1 |
| 3426.1 |
| 3644.2 |
| 3927.8 |
| 4185.4 |
| 4110.2 |
| 3546.7 |
| 2244.1 |
| 623.7  |
| 155.6  |
| 83.4   |
| 55.1   |
| 35.7   |
| 14.9   |
| 0.0    |

OF REPORT)