

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: P947309

Luminaire Tested: **GALN-SB2C-950-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-950-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

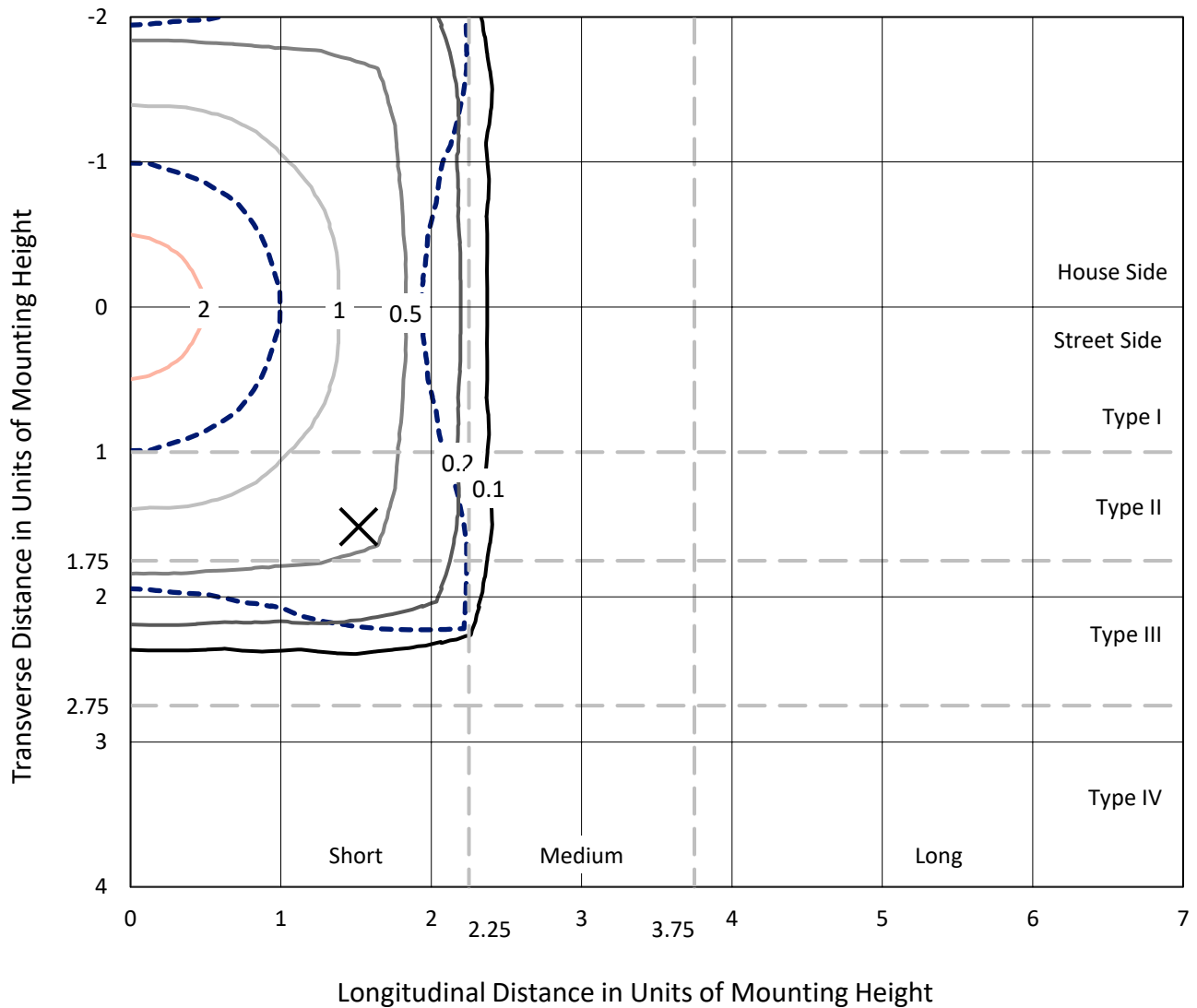
Lumens per Lamp: N/A  
Luminaire Lumens: 10918 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P947309  
 CATALOG NUMBER: GALN-SB2C-950-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

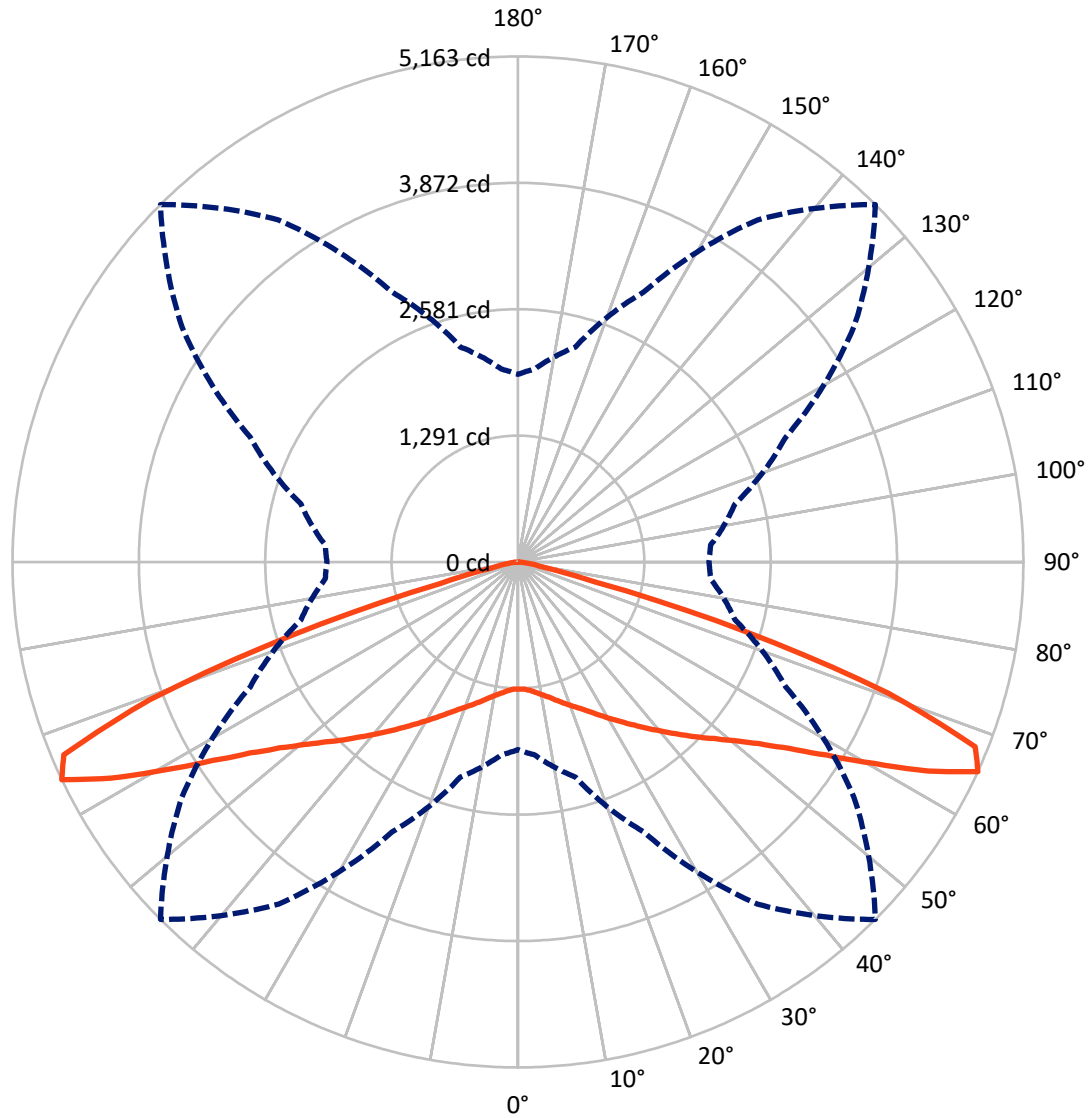
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P947309  
CATALOG NUMBER: GALN-SB2C-950-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P947309  
 CATALOG NUMBER: GALN-SB2C-950-U-5NQ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5459.0   | 0.0    | 5459.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5459.0   | 0.0    | 5459.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10918.0  | 0.0    | 10918.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 128.2   | 1.2       |
| 10°-20°   | 418.4   | 3.8       |
| 20°-30°   | 790.1   | 7.2       |
| 30°-40°   | 1293.7  | 11.8      |
| 40°-50°   | 2005.9  | 18.4      |
| 50°-60°   | 2963.1  | 27.1      |
| 60°-70°   | 2820.6  | 25.8      |
| 70°-80°   | 455.1   | 4.2       |
| 80°-90°   | 42.9    | 0.4       |
| 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°    | 10918.0 | 100.0     |
| 0°-180°   | 10918.0 | 100.0     |

**Coefficient of Utilization**



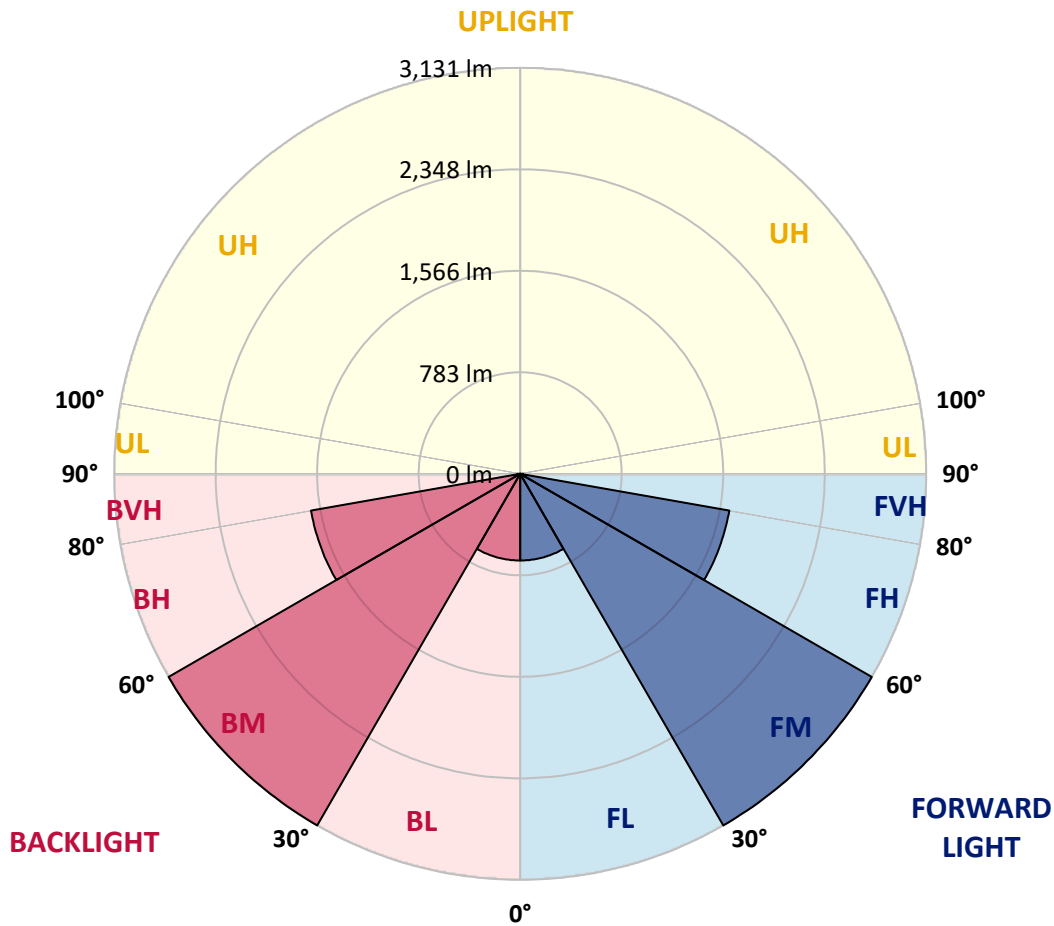
REPORT NUMBER: P947309  
 CATALOG NUMBER: GALN-SB2C-950-U-5NQ

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 668.4  | 6.1       |                         |      |         |
| FM (30°-60°)   | 3131.3 | 28.7      |                         |      |         |
| FH (60°-80°)   | 1637.9 | 15.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 21.4   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 668.4  | 6.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 3131.3 | 28.7      | B3/5000                 |      |         |
| BH (60°-80°)   | 1637.9 | 15.0      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 21.4   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short



REPORT NUMBER: P947309  
 CATALOG NUMBER: GALN-SB2C-950-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 |
| 2.5°  | 1308.1 | 1303.7 | 1307.0 | 1304.3 | 1302.1 | 1299.9 | 1301.0 | 1304.8 | 1306.5 | 1307.0 |
| 5°    | 1325.6 | 1321.8 | 1323.5 | 1323.5 | 1319.6 | 1318.5 | 1319.1 | 1321.8 | 1325.1 | 1325.1 |
| 7.5°  | 1354.1 | 1350.3 | 1354.1 | 1351.9 | 1348.7 | 1347.6 | 1347.0 | 1349.2 | 1354.1 | 1354.1 |
| 10°   | 1388.6 | 1384.3 | 1386.4 | 1385.4 | 1381.5 | 1379.9 | 1379.3 | 1382.6 | 1387.0 | 1386.4 |
| 12.5° | 1426.4 | 1421.5 | 1424.2 | 1421.0 | 1419.9 | 1418.2 | 1418.2 | 1417.7 | 1420.4 | 1418.2 |
| 15°   | 1468.6 | 1465.3 | 1466.4 | 1464.2 | 1465.9 | 1464.8 | 1460.4 | 1458.2 | 1459.3 | 1456.0 |
| 17.5° | 1518.5 | 1510.8 | 1514.6 | 1513.5 | 1513.5 | 1515.7 | 1508.6 | 1505.9 | 1508.1 | 1504.8 |
| 20°   | 1576.0 | 1568.3 | 1570.0 | 1567.8 | 1565.0 | 1567.2 | 1558.5 | 1560.6 | 1562.3 | 1560.1 |
| 22.5° | 1639.0 | 1629.1 | 1628.6 | 1629.7 | 1623.6 | 1624.2 | 1618.2 | 1623.6 | 1626.9 | 1620.9 |
| 25°   | 1703.6 | 1693.2 | 1700.3 | 1697.6 | 1689.9 | 1691.6 | 1687.2 | 1692.7 | 1695.4 | 1687.7 |
| 27.5° | 1772.1 | 1765.0 | 1771.5 | 1773.2 | 1763.9 | 1770.4 | 1763.9 | 1768.8 | 1771.5 | 1760.0 |
| 30°   | 1852.1 | 1844.9 | 1851.0 | 1855.4 | 1844.4 | 1854.8 | 1849.3 | 1852.6 | 1853.2 | 1839.5 |
| 32.5° | 1939.2 | 1928.2 | 1943.5 | 1945.7 | 1933.7 | 1946.3 | 1939.2 | 1943.5 | 1946.3 | 1927.7 |
| 35°   | 2045.4 | 2031.7 | 2049.3 | 2046.5 | 2036.1 | 2046.5 | 2040.0 | 2046.5 | 2053.1 | 2030.6 |
| 37.5° | 2159.9 | 2145.7 | 2164.3 | 2159.4 | 2149.5 | 2156.6 | 2152.8 | 2157.2 | 2167.6 | 2143.5 |
| 40°   | 2285.9 | 2268.4 | 2293.6 | 2284.8 | 2275.5 | 2274.4 | 2276.6 | 2279.3 | 2293.0 | 2266.2 |
| 42.5° | 2420.7 | 2402.0 | 2439.8 | 2426.1 | 2413.0 | 2404.2 | 2411.4 | 2416.8 | 2430.0 | 2399.9 |
| 45°   | 2574.6 | 2553.2 | 2602.5 | 2586.1 | 2565.3 | 2547.2 | 2558.7 | 2566.9 | 2586.1 | 2549.9 |
| 47.5° | 2744.4 | 2720.3 | 2772.9 | 2768.0 | 2734.0 | 2694.6 | 2720.9 | 2744.4 | 2758.7 | 2714.8 |
| 50°   | 2910.4 | 2891.8 | 2960.8 | 2966.8 | 2925.2 | 2869.9 | 2906.6 | 2942.2 | 2946.0 | 2888.5 |
| 52.5° | 3066.0 | 3047.3 | 3147.6 | 3185.4 | 3148.1 | 3082.4 | 3121.3 | 3157.4 | 3128.4 | 3053.9 |
| 55°   | 3190.3 | 3175.0 | 3302.6 | 3400.1 | 3412.7 | 3358.5 | 3381.5 | 3380.4 | 3285.1 | 3170.6 |
| 57.5° | 3220.4 | 3218.2 | 3379.3 | 3585.8 | 3717.3 | 3723.9 | 3678.4 | 3562.3 | 3356.8 | 3202.9 |
| 60°   | 3083.5 | 3097.2 | 3318.5 | 3682.8 | 4033.4 | 4179.1 | 3982.4 | 3651.0 | 3275.2 | 3061.6 |
| 62.5° | 2673.7 | 2709.9 | 2976.7 | 3564.5 | 4288.6 | 4702.8 | 4226.2 | 3516.2 | 2940.0 | 2661.2 |
| 65°   | 1916.2 | 1979.2 | 2273.9 | 3041.9 | 4265.6 | 5162.9 | 4191.1 | 3017.2 | 2295.8 | 1974.2 |
| 67.5° | 869.3  | 933.4  | 1183.8 | 2082.7 | 3708.0 | 5038.0 | 3699.2 | 2104.6 | 1242.9 | 936.7  |
| 70°   | 315.0  | 325.9  | 406.5  | 833.7  | 2369.7 | 4014.2 | 2471.1 | 839.8  | 432.2  | 347.3  |
| 72.5° | 190.6  | 192.3  | 209.3  | 298.5  | 823.3  | 2437.1 | 858.4  | 308.4  | 213.6  | 189.5  |
| 75°   | 121.1  | 120.0  | 149.0  | 182.4  | 292.0  | 822.2  | 306.2  | 182.4  | 148.5  | 135.3  |
| 77.5° | 87.1   | 89.8   | 106.8  | 136.4  | 184.1  | 278.8  | 180.8  | 130.4  | 106.8  | 87.6   |
| 80°   | 65.2   | 66.8   | 77.8   | 106.3  | 129.3  | 173.6  | 115.0  | 96.4   | 80.5   | 54.8   |
| 82.5° | 47.1   | 47.1   | 50.9   | 77.2   | 78.9   | 93.7   | 62.4   | 67.9   | 53.1   | 38.9   |
| 85°   | 27.9   | 27.4   | 31.8   | 46.0   | 41.1   | 34.5   | 28.5   | 41.6   | 33.4   | 24.1   |
| 87.5° | 9.9    | 10.4   | 9.9    | 13.1   | 11.0   | 9.3    | 8.8    | 11.5   | 9.3    | 8.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END C

| 90°    |
|--------|
| 1299.4 |
| 1307.0 |
| 1325.1 |
| 1352.5 |
| 1385.4 |
| 1419.3 |
| 1456.6 |
| 1507.5 |
| 1565.0 |
| 1626.9 |
| 1696.5 |
| 1768.8 |
| 1847.7 |
| 1940.3 |
| 2044.3 |
| 2158.3 |
| 2275.0 |
| 2415.7 |
| 2568.6 |
| 2729.6 |
| 2895.6 |
| 3056.1 |
| 3174.4 |
| 3193.1 |
| 3036.4 |
| 2644.7 |
| 1950.7 |
| 923.0  |
| 342.9  |
| 192.8  |
| 136.4  |
| 89.3   |
| 56.4   |
| 38.9   |
| 23.6   |
| 7.7    |
| 0.0    |

OF REPORT)