

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: P948463

Luminaire Tested: **GALN-SB3C-735-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948463  
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-SB3C-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

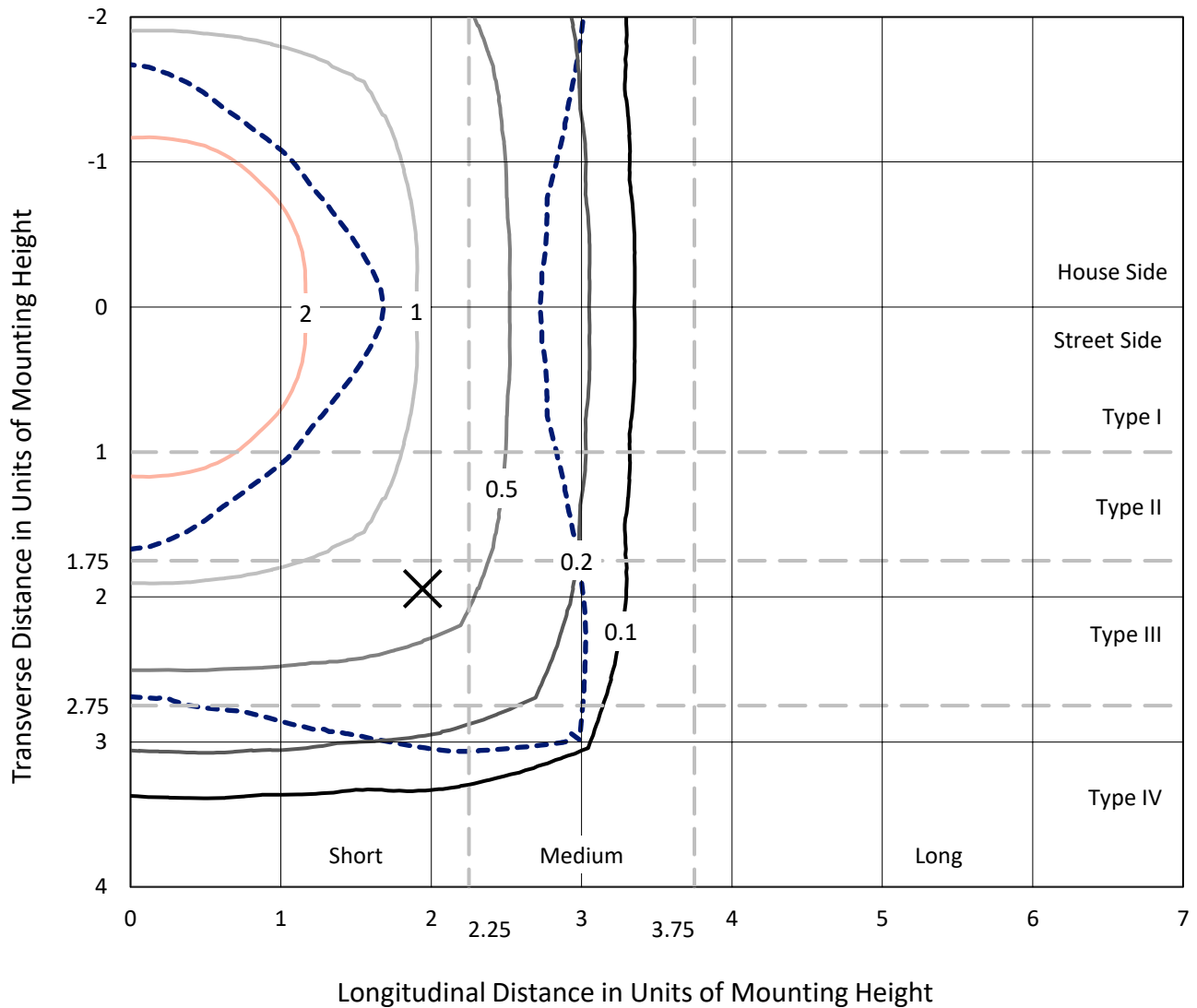
Lumens per Lamp: N/A  
Luminaire Lumens: 23532 lumens  
Efficiency: N/A  
Efficacy: 157.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

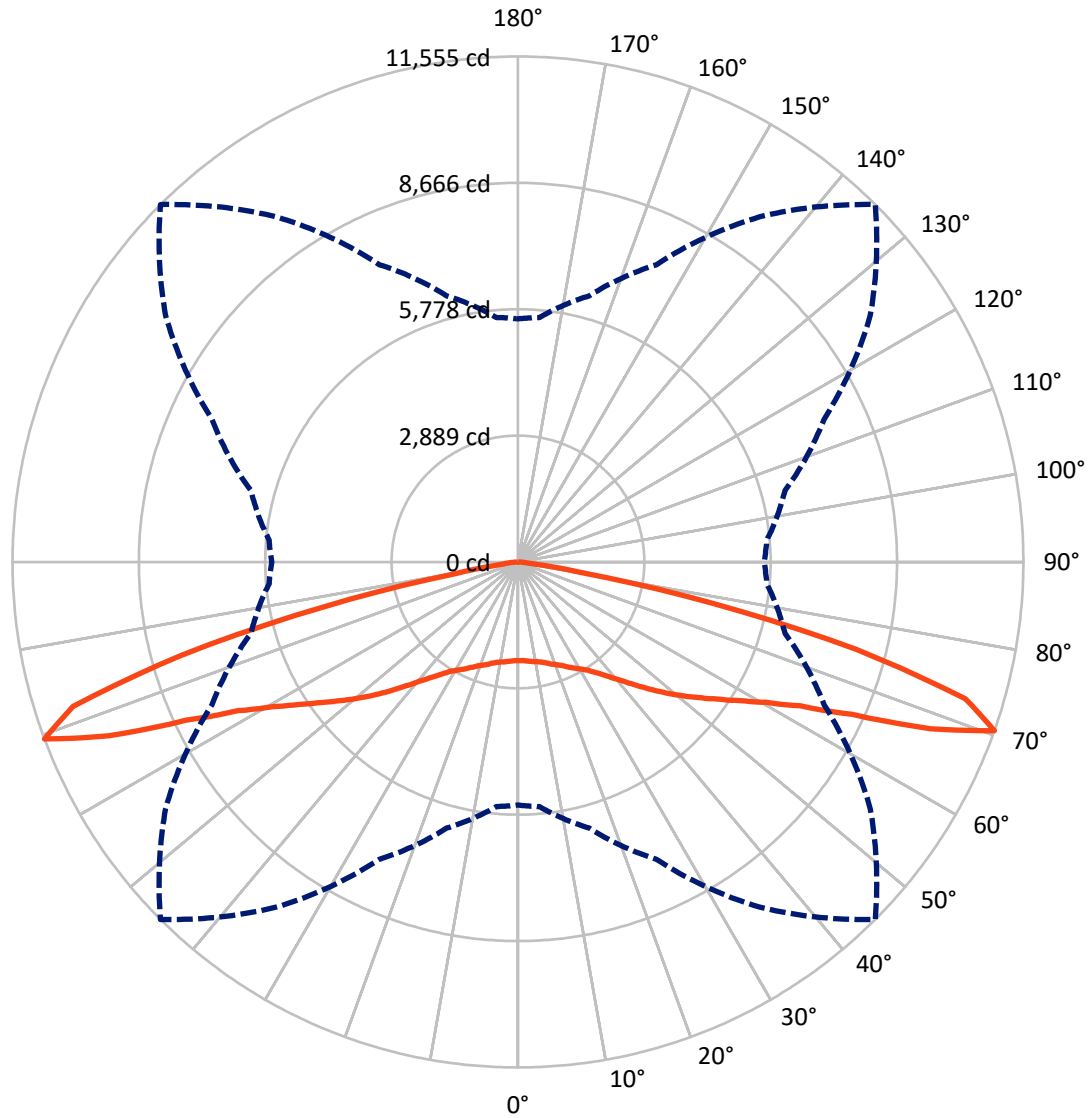
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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    | 11766.0  | 0.0    | 11766.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11766.0  | 0.0    | 11766.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23532.0  | 0.0    | 23532.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 219.0   | 0.9       |
| 10°-20°   | 679.1   | 2.9       |
| 20°-30°   | 1213.5  | 5.2       |
| 30°-40°   | 1967.2  | 8.4       |
| 40°-50°   | 3204.2  | 13.6      |
| 50°-60°   | 4885.3  | 20.8      |
| 60°-70°   | 7267.7  | 30.9      |
| 70°-80°   | 3961.2  | 16.8      |
| 80°-90°   | 134.9   | 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°    | 23532.0 | 100.0     |
| 0°-180°   | 23532.0 | 100.0     |



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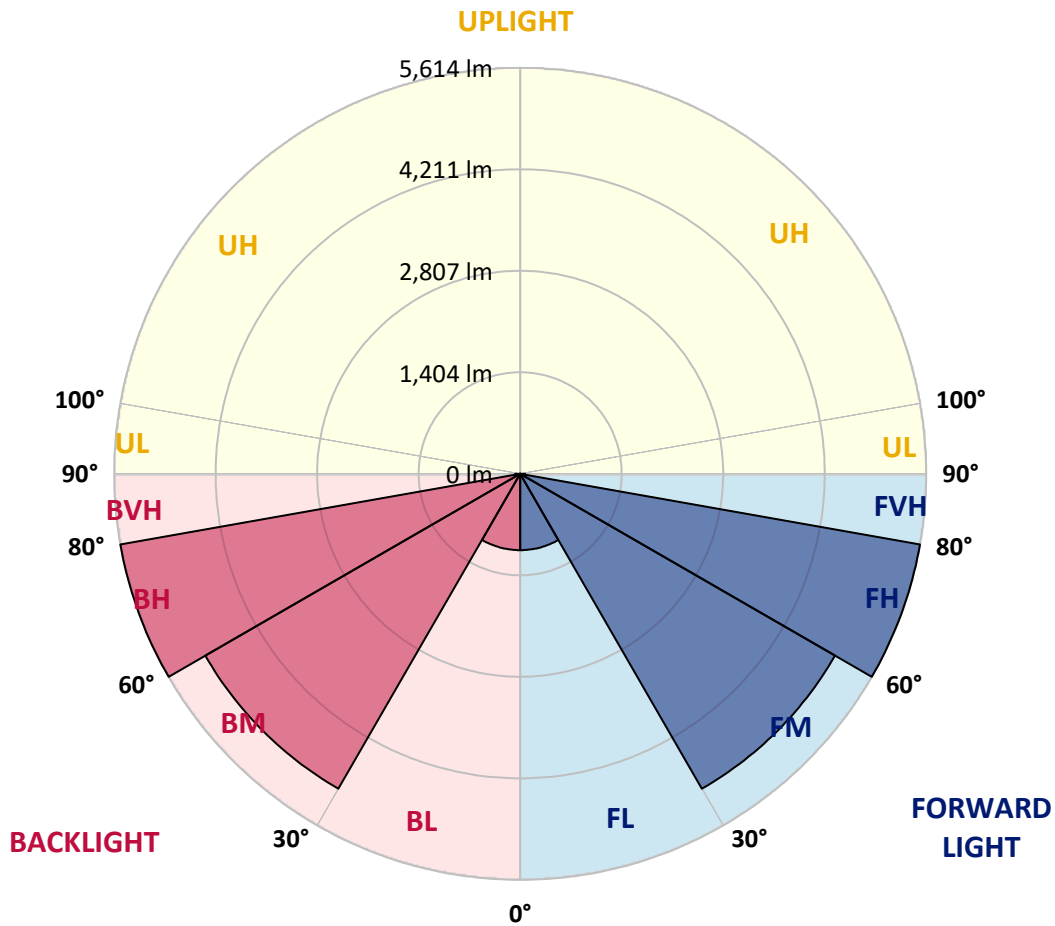
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1055.8 | 4.5       |                         |      |         |
| FM (30°-60°)   | 5028.3 | 21.4      |                         |      |         |
| FH (60°-80°)   | 5614.5 | 23.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 67.4   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1055.8 | 4.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 5028.3 | 21.4      | B4/8500                 |      |         |
| BH (60°-80°)   | 5614.5 | 23.9      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 67.4   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| 0°    | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1  | 2254.1 | 2254.1 | 2254.1 | 2254.1 |
| 2.5°  | 2264.8 | 2267.1 | 2262.4 | 2260.0 | 2257.7 | 2254.1  | 2255.3 | 2261.2 | 2265.9 | 2264.8 |
| 5°    | 2283.7 | 2286.0 | 2282.5 | 2281.3 | 2276.6 | 2275.4  | 2275.4 | 2281.3 | 2284.8 | 2282.5 |
| 7.5°  | 2304.9 | 2308.5 | 2302.6 | 2301.4 | 2299.0 | 2296.7  | 2295.5 | 2301.4 | 2304.9 | 2304.9 |
| 10°   | 2325.0 | 2328.6 | 2323.8 | 2320.3 | 2317.9 | 2317.9  | 2315.6 | 2320.3 | 2326.2 | 2325.0 |
| 12.5° | 2346.3 | 2348.6 | 2343.9 | 2341.5 | 2341.5 | 2345.1  | 2341.5 | 2343.9 | 2348.6 | 2346.3 |
| 15°   | 2372.3 | 2373.4 | 2372.3 | 2375.8 | 2381.7 | 2393.5  | 2382.9 | 2380.5 | 2382.9 | 2377.0 |
| 17.5° | 2407.7 | 2410.1 | 2414.8 | 2423.1 | 2431.3 | 2452.6  | 2433.7 | 2427.8 | 2427.8 | 2416.0 |
| 20°   | 2451.4 | 2455.0 | 2462.0 | 2476.2 | 2486.9 | 2506.9  | 2488.0 | 2479.8 | 2476.2 | 2460.9 |
| 22.5° | 2497.5 | 2503.4 | 2514.0 | 2532.9 | 2551.8 | 2570.7  | 2551.8 | 2537.7 | 2527.0 | 2506.9 |
| 25°   | 2550.7 | 2557.7 | 2574.3 | 2605.0 | 2631.0 | 2658.2  | 2635.7 | 2607.4 | 2586.1 | 2557.7 |
| 27.5° | 2626.3 | 2634.5 | 2654.6 | 2692.4 | 2725.5 | 2749.1  | 2727.9 | 2691.2 | 2661.7 | 2627.4 |
| 30°   | 2732.6 | 2740.9 | 2764.5 | 2804.7 | 2827.1 | 2842.5  | 2828.3 | 2799.9 | 2764.5 | 2725.5 |
| 32.5° | 2869.6 | 2880.3 | 2906.3 | 2944.1 | 2948.8 | 2951.2  | 2946.4 | 2932.2 | 2906.3 | 2859.0 |
| 35°   | 3043.3 | 3055.1 | 3084.7 | 3115.4 | 3110.6 | 3115.4  | 3108.3 | 3103.6 | 3084.7 | 3030.3 |
| 37.5° | 3256.0 | 3270.1 | 3300.8 | 3324.5 | 3312.7 | 3306.8  | 3307.9 | 3309.1 | 3298.5 | 3238.2 |
| 40°   | 3502.9 | 3521.8 | 3544.2 | 3569.0 | 3548.9 | 3531.2  | 3543.0 | 3552.5 | 3543.0 | 3481.6 |
| 42.5° | 3756.9 | 3784.0 | 3807.7 | 3843.1 | 3826.6 | 3804.1  | 3820.7 | 3831.3 | 3811.2 | 3745.1 |
| 45°   | 4039.2 | 4065.2 | 4095.9 | 4149.1 | 4137.3 | 4113.7  | 4137.3 | 4139.6 | 4105.4 | 4027.4 |
| 47.5° | 4331.0 | 4358.2 | 4404.3 | 4475.2 | 4470.4 | 4444.4  | 4475.2 | 4458.6 | 4414.9 | 4321.6 |
| 50°   | 4607.5 | 4645.3 | 4716.2 | 4815.4 | 4824.9 | 4793.0  | 4834.3 | 4802.4 | 4729.2 | 4612.2 |
| 52.5° | 4867.4 | 4907.6 | 5019.8 | 5154.5 | 5188.7 | 5147.4  | 5202.9 | 5147.4 | 5037.5 | 4887.5 |
| 55°   | 5140.3 | 5185.2 | 5318.7 | 5494.7 | 5563.2 | 5532.5  | 5584.5 | 5500.6 | 5344.7 | 5162.7 |
| 57.5° | 5461.6 | 5488.8 | 5648.3 | 5857.4 | 5973.2 | 5980.3  | 6003.9 | 5862.1 | 5673.1 | 5466.4 |
| 60°   | 5810.2 | 5848.0 | 6021.6 | 6272.1 | 6455.2 | 6514.3  | 6489.5 | 6279.2 | 6059.4 | 5822.0 |
| 62.5° | 6256.7 | 6298.1 | 6506.0 | 6806.1 | 7095.5 | 7242.0  | 7145.1 | 6840.3 | 6568.6 | 6283.9 |
| 65°   | 6626.5 | 6672.6 | 7048.3 | 7583.4 | 8110.4 | 8404.5  | 8161.2 | 7600.0 | 7110.9 | 6709.2 |
| 67.5° | 6358.3 | 6415.0 | 7004.6 | 7987.5 | 9297.7 | 10175.4 | 9342.6 | 8108.0 | 7149.9 | 6605.2 |
| 70°   | 5557.3 | 5610.5 | 6298.1 | 7499.6 | 9632.0 | 11555.3 | 9832.8 | 7720.5 | 6320.5 | 5710.9 |
| 72.5° | 3689.5 | 3860.8 | 4556.7 | 5998.0 | 8600.6 | 10692.9 | 8685.7 | 5876.3 | 4227.1 | 3681.3 |
| 75°   | 1223.9 | 1361.0 | 1835.9 | 3109.5 | 5760.5 | 7996.9  | 5484.1 | 2751.5 | 1454.3 | 1046.7 |
| 77.5° | 308.3  | 355.6  | 490.3  | 889.6  | 2297.8 | 4553.1  | 2068.6 | 726.6  | 395.8  | 276.4  |
| 80°   | 150.0  | 165.4  | 236.3  | 296.5  | 575.3  | 1447.2  | 539.9  | 278.8  | 186.7  | 144.1  |
| 82.5° | 82.7   | 83.9   | 133.5  | 167.8  | 213.8  | 374.5   | 222.1  | 163.0  | 107.5  | 87.4   |
| 85°   | 50.8   | 49.6   | 70.9   | 89.8   | 89.8   | 133.5   | 106.3  | 89.8   | 61.4   | 54.3   |
| 87.5° | 20.1   | 20.1   | 26.0   | 28.4   | 24.8   | 34.3    | 27.2   | 29.5   | 23.6   | 22.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    |

(END C

| 90°    |
|--------|
| 2254.1 |
| 2265.9 |
| 2283.7 |
| 2304.9 |
| 2325.0 |
| 2345.1 |
| 2377.0 |
| 2416.0 |
| 2460.9 |
| 2505.8 |
| 2556.6 |
| 2626.3 |
| 2725.5 |
| 2860.2 |
| 3030.3 |
| 3238.2 |
| 3481.6 |
| 3749.8 |
| 4035.7 |
| 4315.7 |
| 4609.8 |
| 4873.3 |
| 5137.9 |
| 5438.0 |
| 5784.2 |
| 6234.3 |
| 6643.0 |
| 6523.7 |
| 5629.4 |
| 3561.9 |
| 990.0  |
| 246.9  |
| 132.3  |
| 87.4   |
| 56.7   |
| 23.6   |
| 0.0    |

OF REPORT)