

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: P533814

Luminaire Tested: **GALN-SA9B-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-735-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43283 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

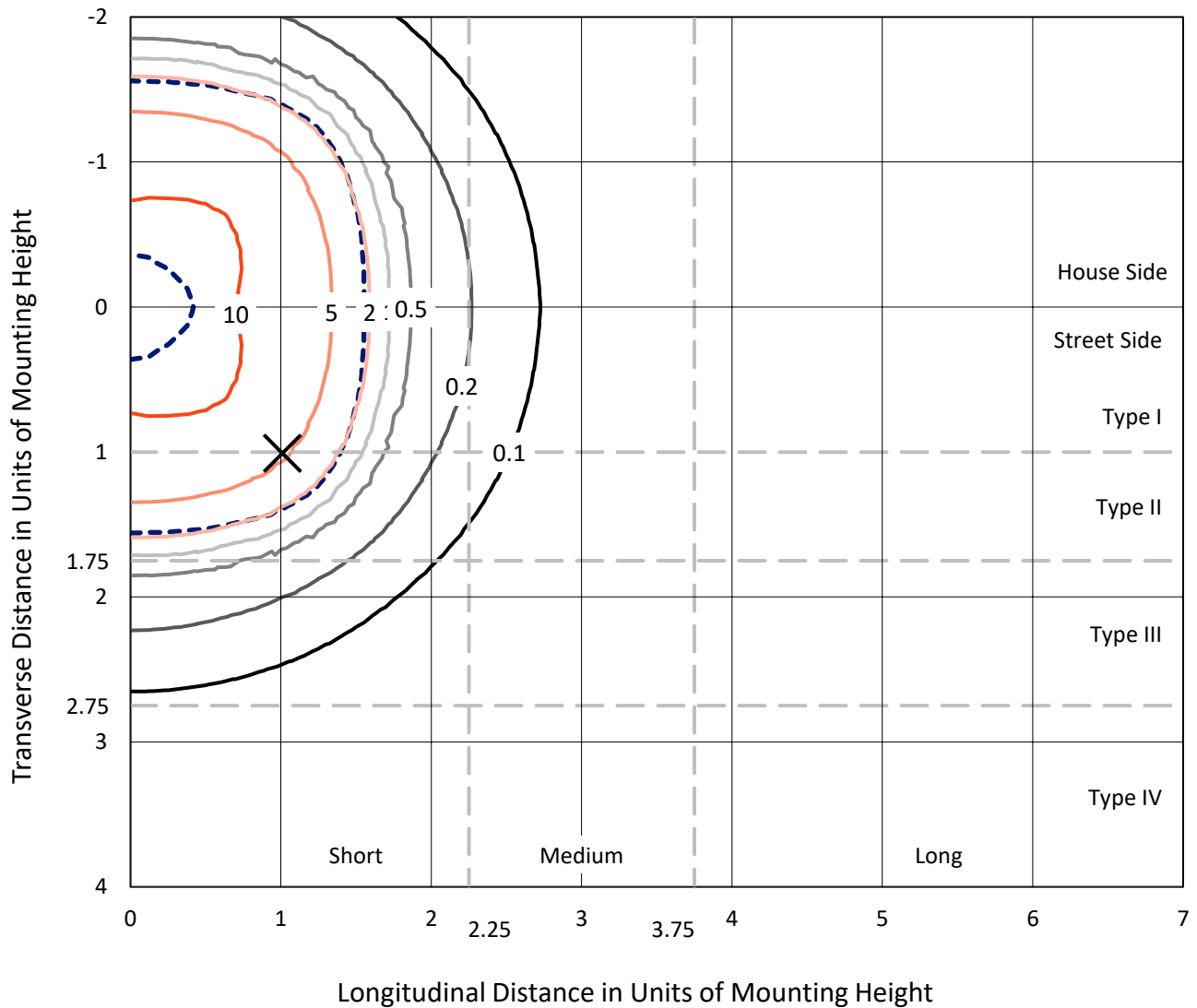
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

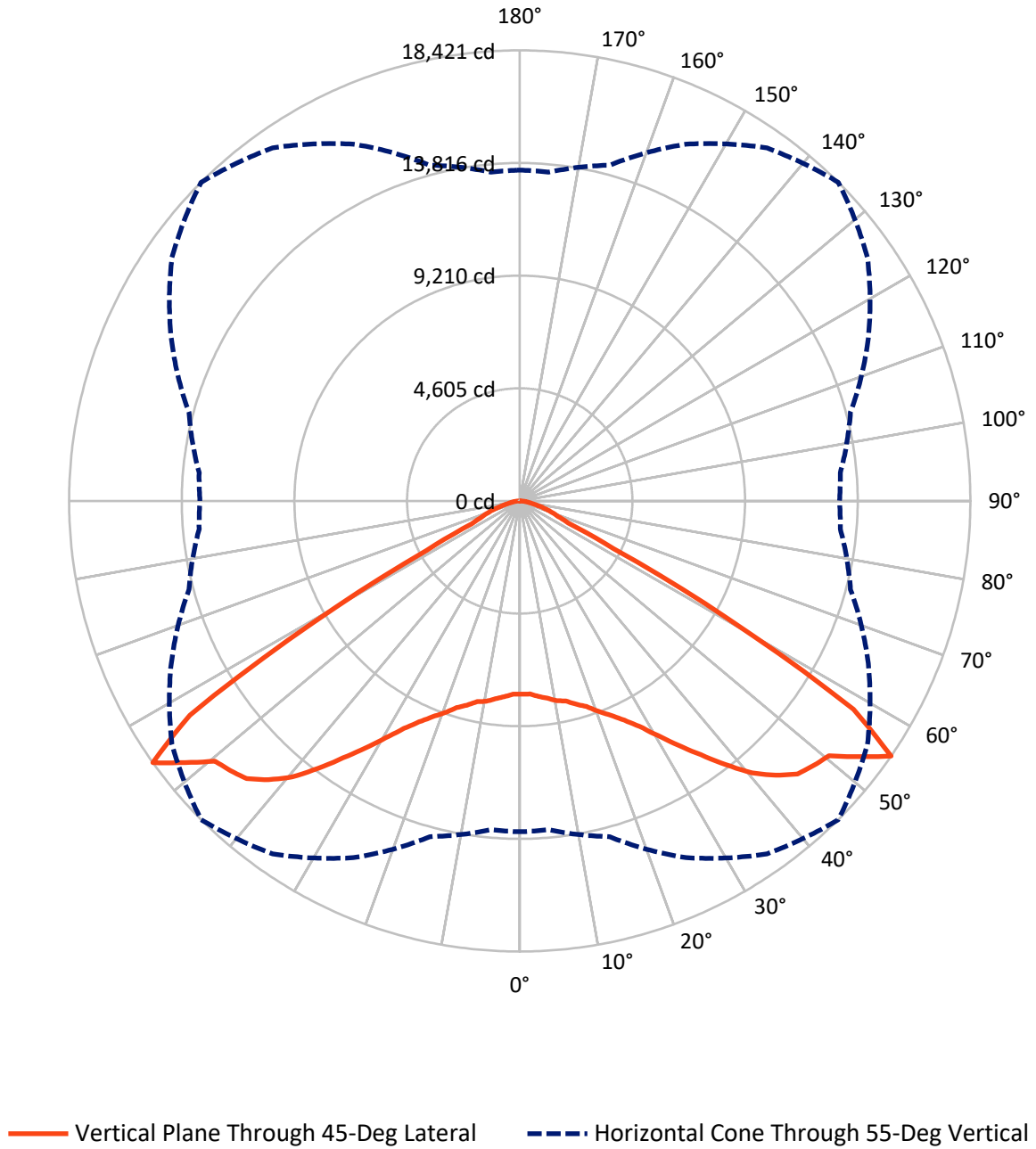
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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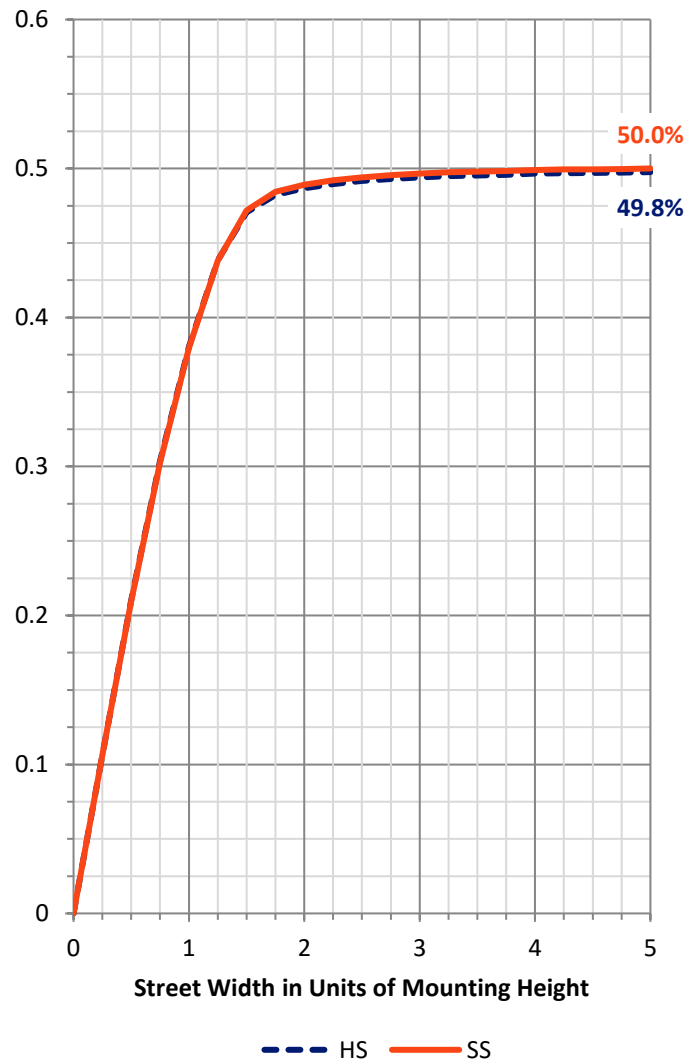
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21641.5	0.0	21641.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21641.5	0.0	21641.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43283.0	0.0	43283.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	772.0	1.8
10°-20°	2446.2	5.7
20°-30°	4561.4	10.5
30°-40°	7637.2	17.6
40°-50°	11884.1	27.5
50°-60°	12339.4	28.5
60°-70°	2616.8	6.0
70°-80°	861.8	2.0
80°-90°	164.1	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°	43283.0	100.0
0°-180°	43283.0	100.0



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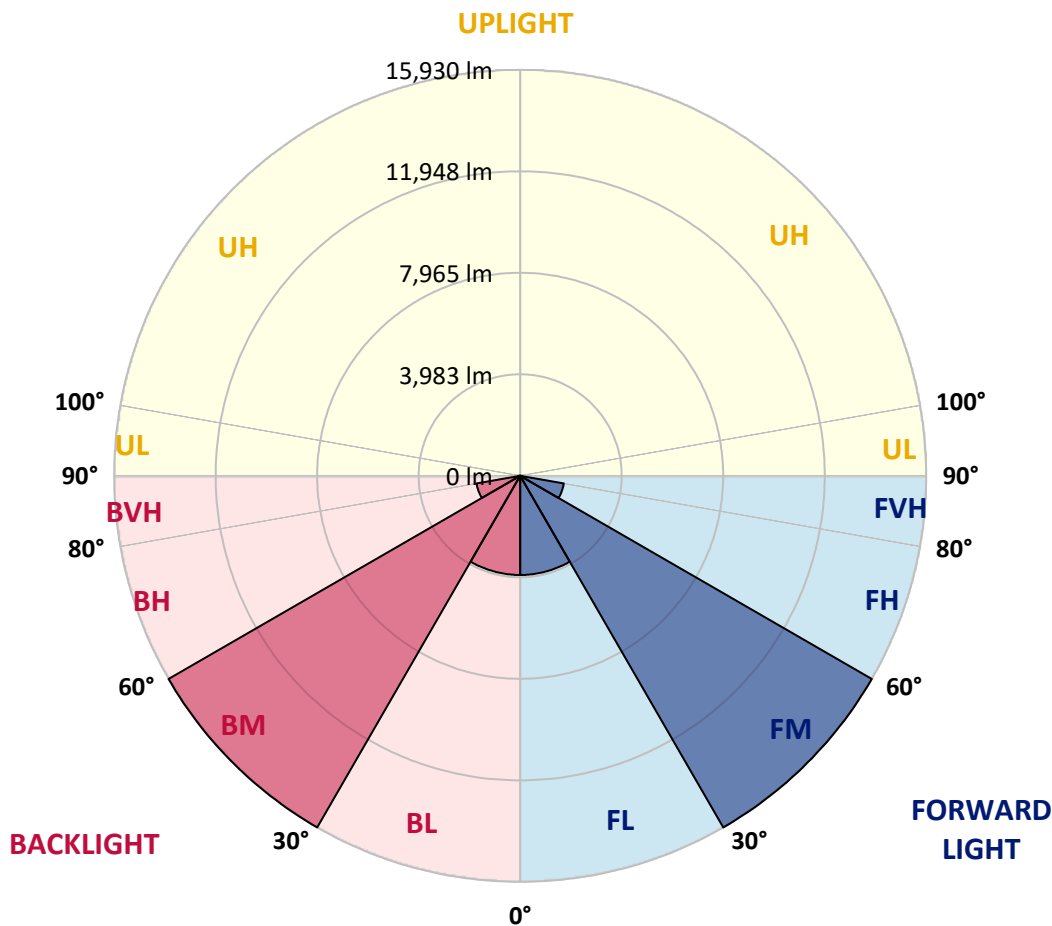
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3889.8	9.0			
FM (30°-60°)	15930.4	36.8			
FH (60°-80°)	1739.3	4.0			G1/1800
FVH (80°-90°)	82.1	0.2			G1/100
BL (0°-30°)	3889.8	9.0	B4/5000		
BM (30°-60°)	15930.4	36.8	B5		
BH (60°-80°)	1739.3	4.0	B3/2500		G1/1800
BVH (80°-90°)	82.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7902.8	7902.8	7902.8	7902.8	7902.8	7902.8	7902.8	7902.8	7902.8	7902.8	7902.8
2.5°	7997.0	7960.4	7897.6	7944.7	7981.3	7902.8	7934.2	7949.9	7939.4	7897.6	7913.3
5°	8112.0	8091.1	8038.8	8075.4	8028.4	8028.4	7997.0	7955.1	8017.9	8007.4	8033.6
7.5°	8112.0	8085.9	8190.5	8122.5	8143.4	8143.4	8091.1	8049.3	8080.7	8033.6	8007.4
10°	8274.2	8310.8	8263.7	8279.4	8268.9	8305.6	8227.1	8201.0	8174.8	8159.1	8127.7
12.5°	8467.7	8441.5	8457.2	8446.8	8483.4	8389.2	8342.2	8284.6	8331.7	8263.7	8310.8
15°	8624.6	8608.9	8624.6	8666.4	8629.8	8624.6	8540.9	8483.4	8410.2	8425.9	8352.6
17.5°	8839.0	8823.3	8828.6	8865.2	8860.0	8833.8	8771.0	8661.2	8635.1	8593.2	8546.1
20°	9158.1	9131.9	9121.5	9137.2	9163.3	9184.2	9058.7	9016.9	8927.9	8860.0	8781.5
22.5°	9430.0	9419.6	9461.4	9393.4	9451.0	9513.7	9393.4	9372.5	9152.8	9116.2	9032.6
25°	9806.6	9790.9	9764.8	9864.2	9932.1	9926.9	9811.9	9696.8	9529.4	9487.6	9487.6
27.5°	10204.1	10115.2	10251.2	10277.3	10397.6	10434.2	10334.9	10167.5	10010.6	9921.7	9942.6
30°	10701.0	10617.3	10648.7	10837.0	10993.9	11129.9	10878.8	10633.0	10413.3	10256.4	10230.3
32.5°	11197.9	11114.2	11208.3	11391.4	11705.2	11909.2	11663.3	11234.5	10978.2	10748.1	10795.1
35°	11600.6	11663.3	11815.0	12092.2	12416.5	12746.0	12353.7	12024.2	11658.1	11401.8	11438.4
37.5°	12249.1	12442.6	12562.9	12882.0	13342.2	13682.2	13274.2	12845.4	12453.1	12118.4	12003.3
40°	13096.4	13227.2	13363.2	13739.7	14283.7	14623.6	14236.6	13677.0	13289.9	12944.7	12929.1
42.5°	14027.4	14152.9	14294.1	14754.4	15078.7	15334.9	14979.3	14681.2	14252.3	13980.3	13964.6
45°	15110.0	15021.1	15178.0	15481.4	15753.4	15920.7	15690.6	15544.2	15235.6	14984.5	14958.4
47.5°	15831.8	15753.4	16035.8	16307.8	16349.6	16166.5	16213.6	16349.6	16025.3	15612.1	15742.9
50°	16250.2	16250.2	16438.5	16689.6	16611.1	16375.8	16747.1	16757.6	16433.3	16067.2	16067.2
52.5°	15523.2	15685.4	16218.8	17040.0	17301.5	17369.5	17285.8	16930.2	16082.9	15334.9	15298.3
55°	13525.3	13488.7	14210.4	16093.3	17615.3	18420.8	17353.8	15716.7	13996.0	13153.9	13070.3
57.5°	8797.2	8839.0	9916.5	11835.9	14581.8	16082.9	14283.7	11982.4	9916.5	8755.4	8865.2
60°	3959.3	4100.5	4754.3	6187.3	8546.1	9770.0	8567.1	6501.1	4989.6	4330.6	4388.1
62.5°	2275.1	2301.3	2327.4	2761.5	3640.2	4304.5	3781.4	2918.5	2573.3	2458.2	2458.2
65°	1919.5	1903.8	1909.0	1945.6	2039.8	2175.8	2118.2	2039.8	2050.2	2039.8	2024.1
67.5°	1631.8	1652.7	1637.1	1663.2	1668.4	1689.4	1726.0	1757.3	1762.6	1773.0	1762.6
70°	1338.9	1344.2	1354.6	1375.5	1380.8	1396.5	1448.8	1474.9	1490.6	1490.6	1511.5
72.5°	1025.1	1019.9	1030.3	1051.3	1077.4	1082.7	1129.7	1166.3	1187.3	1161.1	1166.3
75°	674.7	679.9	695.6	711.3	747.9	784.5	800.2	836.8	842.1	852.5	826.4
77.5°	402.7	413.2	428.9	460.3	491.6	523.0	559.6	585.8	596.2	585.8	554.4
80°	261.5	261.5	282.4	308.6	345.2	371.3	392.3	413.2	428.9	413.2	402.7
82.5°	162.1	162.1	188.3	219.7	245.8	261.5	292.9	319.0	334.7	324.3	308.6
85°	83.7	88.9	109.8	136.0	156.9	167.4	162.1	146.4	130.8	125.5	115.1
87.5°	26.2	26.2	31.4	31.4	26.2	26.2	31.4	26.2	31.4	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)