

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: P531189

Luminaire Tested: **GALN-SA6C-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18187 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

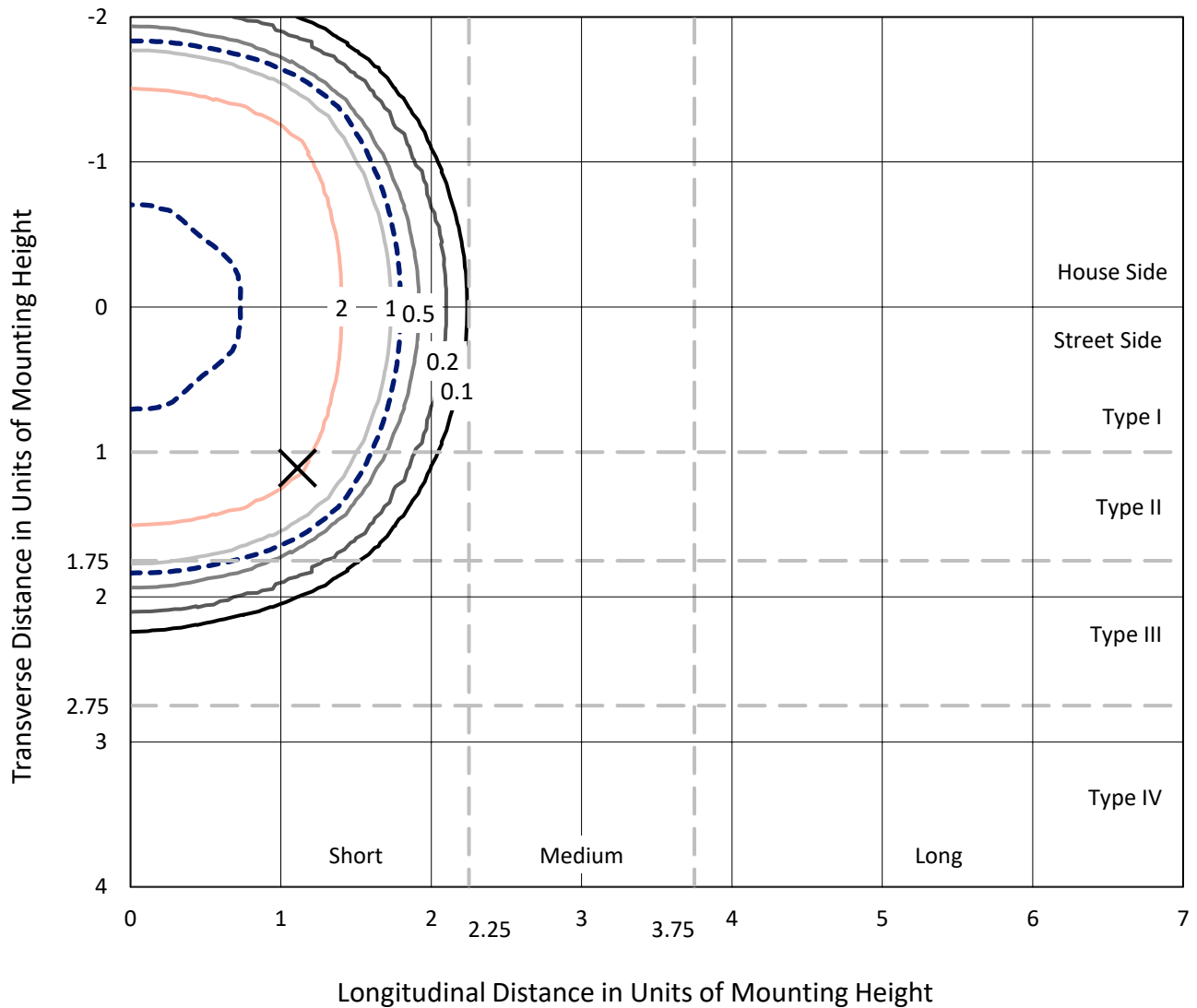
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

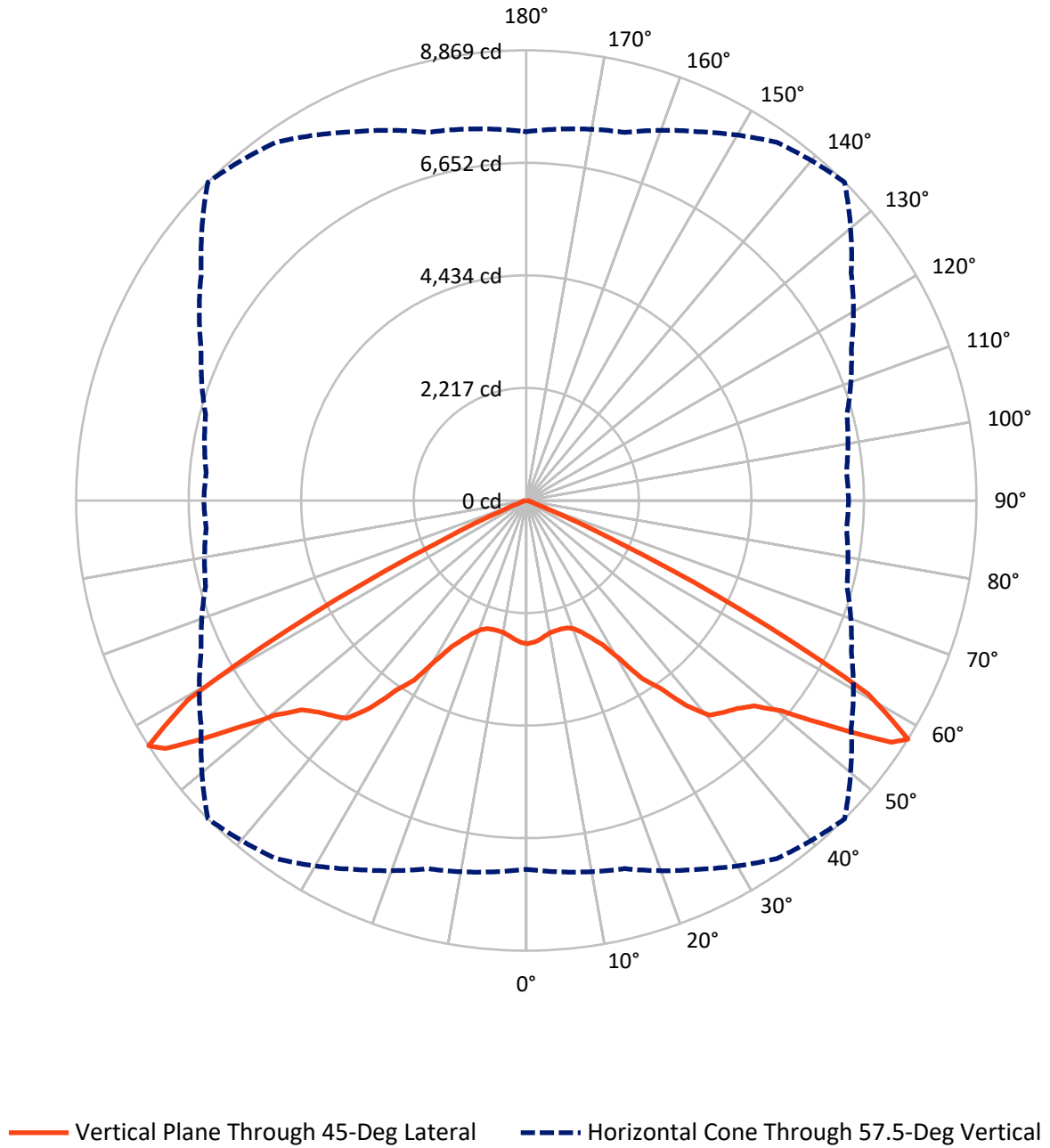
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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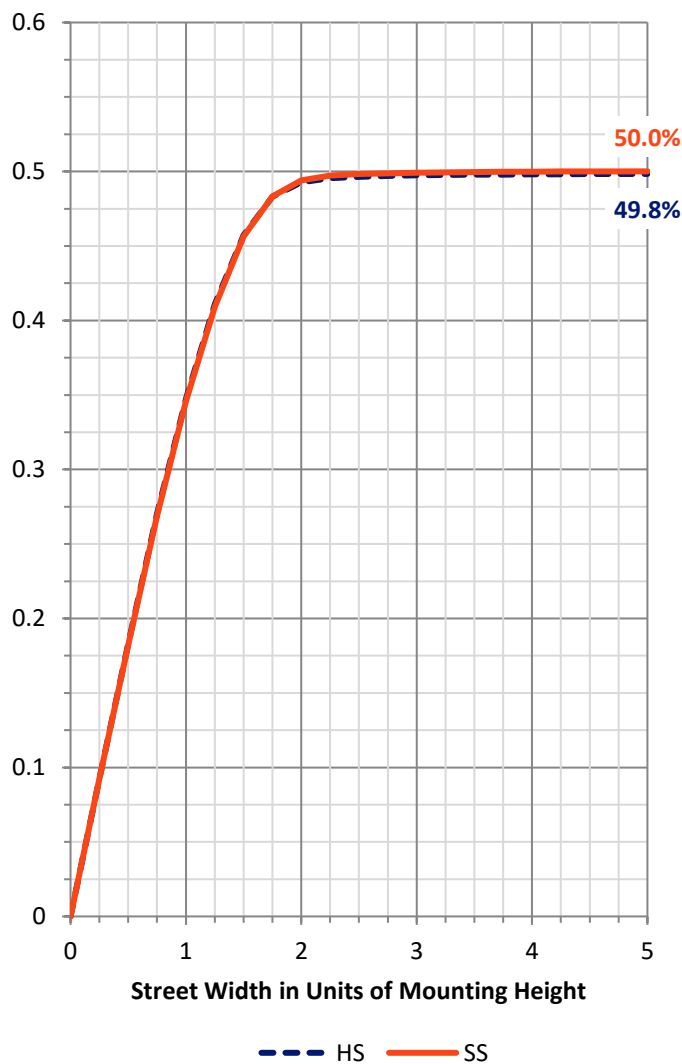
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9093.5	0.0	9093.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9093.5	0.0	9093.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18187.0	0.0	18187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	1.4
10°-20°	749.3	4.1
20°-30°	1383.1	7.6
30°-40°	2720.1	15.0
40°-50°	4430.3	24.4
50°-60°	6318.1	34.7
60°-70°	2187.5	12.0
70°-80°	117.3	0.6
80°-90°	22.0	0.1
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°	18187.0	100.0
0°-180°	18187.0	100.0

Coefficient of Utilization



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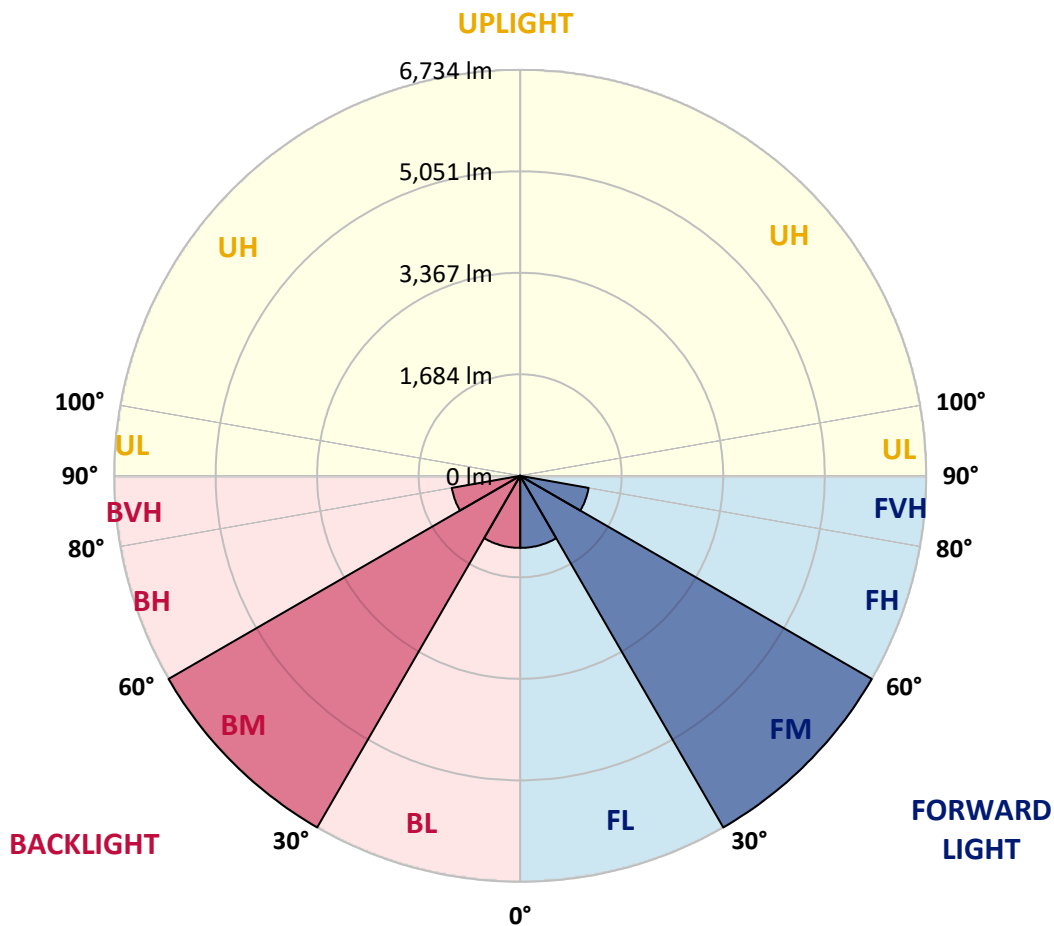
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.8	6.6			
FM (30°-60°)	6734.2	37.0			
FH (60°-80°)	1152.4	6.3			G1/1800
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	1195.8	6.6	B3/2500		
BM (30°-60°)	6734.2	37.0	B4/8500		
BH (60°-80°)	1152.4	6.3	B3/2500		G1/1800
BVH (80°-90°)	11.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0
2.5°	2813.4	2828.6	2809.6	2802.0	2798.2	2798.2	2786.9	2786.9	2783.1	2786.9	2771.7
5°	2767.9	2783.1	2783.1	2779.3	2756.5	2752.7	2741.4	2733.8	2737.6	2722.4	2733.8
7.5°	2722.4	2733.8	2718.6	2714.8	2707.2	2692.1	2688.3	2654.2	2658.0	2658.0	2665.5
10°	2714.8	2711.0	2688.3	2669.3	2646.6	2642.8	2631.4	2623.8	2623.8	2620.0	2631.4
12.5°	2714.8	2695.9	2692.1	2650.4	2612.5	2627.6	2597.3	2578.3	2604.9	2612.5	2627.6
15°	2711.0	2730.0	2665.5	2646.6	2620.0	2623.8	2597.3	2578.3	2593.5	2601.1	2612.5
17.5°	2733.8	2722.4	2703.5	2665.5	2654.2	2639.0	2604.9	2589.7	2589.7	2608.7	2612.5
20°	2794.5	2764.1	2726.2	2707.2	2718.6	2699.7	2658.0	2601.1	2616.2	2631.4	2642.8
22.5°	2851.3	2828.6	2802.0	2790.7	2855.1	2824.8	2752.7	2688.3	2665.5	2692.1	2711.0
25°	2961.3	2961.3	2912.0	2927.2	2999.2	3003.0	2919.6	2805.8	2790.7	2802.0	2809.6
27.5°	3185.0	3196.4	3154.7	3169.8	3200.2	3226.7	3154.7	3059.9	3025.7	3022.0	3033.3
30°	3427.7	3450.4	3446.6	3511.1	3598.3	3613.5	3507.3	3351.8	3249.5	3230.5	3245.7
32.5°	3746.2	3757.5	3750.0	3825.8	4060.9	4170.8	3894.0	3674.1	3537.6	3571.7	3537.6
35°	4345.2	4333.9	4250.4	4265.6	4459.0	4538.6	4273.2	4132.9	4068.4	4136.7	4121.5
37.5°	4860.9	4819.2	4750.9	4849.5	5050.5	5122.5	4845.7	4599.3	4481.7	4595.5	4644.8
40°	5296.9	5190.8	5096.0	5194.6	5463.8	5562.4	5156.7	4955.7	4910.2	4993.6	5099.8
42.5°	5664.7	5596.5	5471.4	5478.9	5657.2	5702.7	5376.6	5259.0	5213.5	5346.2	5399.3
45°	5926.4	5861.9	5744.4	5736.8	5873.3	5842.9	5551.0	5471.4	5497.9	5585.1	5611.7
47.5°	6059.1	6093.2	6024.9	6043.9	6115.9	6043.9	5812.6	5812.6	5751.9	5805.0	5778.5
50°	6442.0	6335.9	6423.1	6423.1	6498.9	6506.5	6275.2	6191.8	6028.7	5937.7	5937.7
52.5°	6889.4	6897.0	6931.2	7056.3	7185.2	7295.2	6965.3	6608.9	6335.9	6218.3	6203.2
55°	7257.2	7333.1	7469.6	7704.7	8076.2	8227.9	7659.2	7022.2	6688.5	6506.5	6468.6
56°	7458.2	7386.2	7621.2	7943.5	8428.9	8626.0	7772.9	7105.6	6737.8	6533.0	6529.2
57.5°	7264.8	7344.4	7507.5	8015.6	8610.9	8868.7	7814.6	7067.7	6540.6	6332.1	6351.0
60°	5736.8	5812.6	6032.5	6601.3	7534.0	7735.0	6612.7	5827.8	5357.6	5058.1	5061.9
62.5°	3245.7	3302.5	3473.2	4000.2	4580.3	4773.7	4121.5	3598.3	3272.2	3105.4	3052.3
65°	1194.4	1171.6	1198.2	1467.4	1823.8	1986.8	1713.8	1448.4	1277.8	1217.1	1194.4
67.5°	447.4	413.3	386.7	413.3	519.5	549.8	504.3	420.9	394.3	405.7	413.3
70°	276.8	261.6	208.5	197.2	193.4	189.6	201.0	212.3	242.7	284.4	292.0
72.5°	193.4	182.0	147.9	140.3	132.7	128.9	147.9	163.0	189.6	219.9	223.7
75°	75.8	79.6	75.8	83.4	87.2	91.0	106.2	117.5	128.9	128.9	125.1
77.5°	15.2	15.2	22.7	30.3	37.9	49.3	72.0	83.4	87.2	83.4	72.0
80°	0.0	0.0	7.6	15.2	30.3	41.7	64.5	72.0	79.6	72.0	56.9
82.5°	0.0	0.0	7.6	19.0	30.3	37.9	60.7	75.8	87.2	79.6	60.7
85°	0.0	0.0	7.6	15.2	22.7	26.5	26.5	19.0	19.0	11.4	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)