

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: P454516

Luminaire Tested: **GALN-SA5C-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26703 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

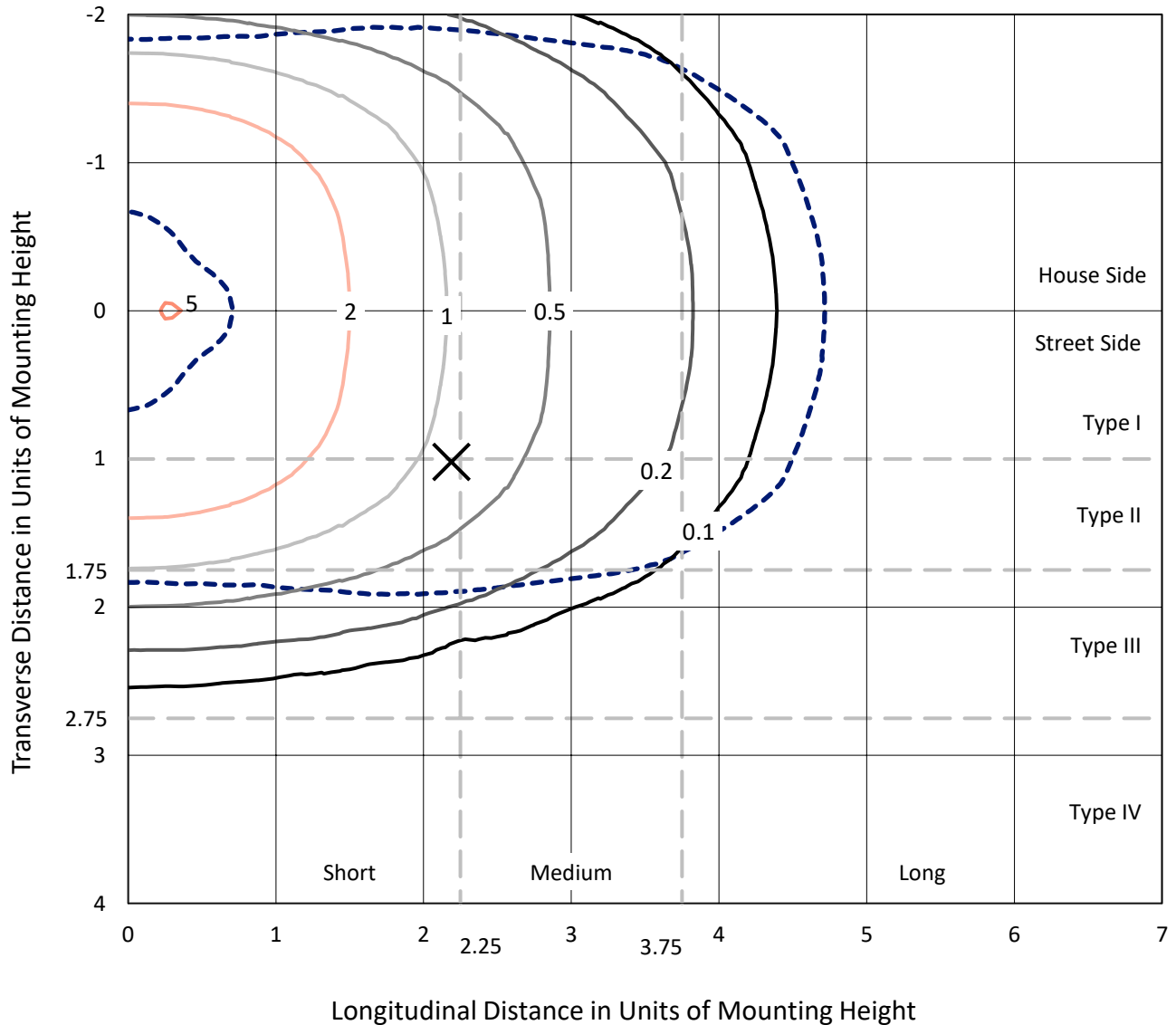
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454516  
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### Iso-Footcandle Lines of Horizontal Illumination

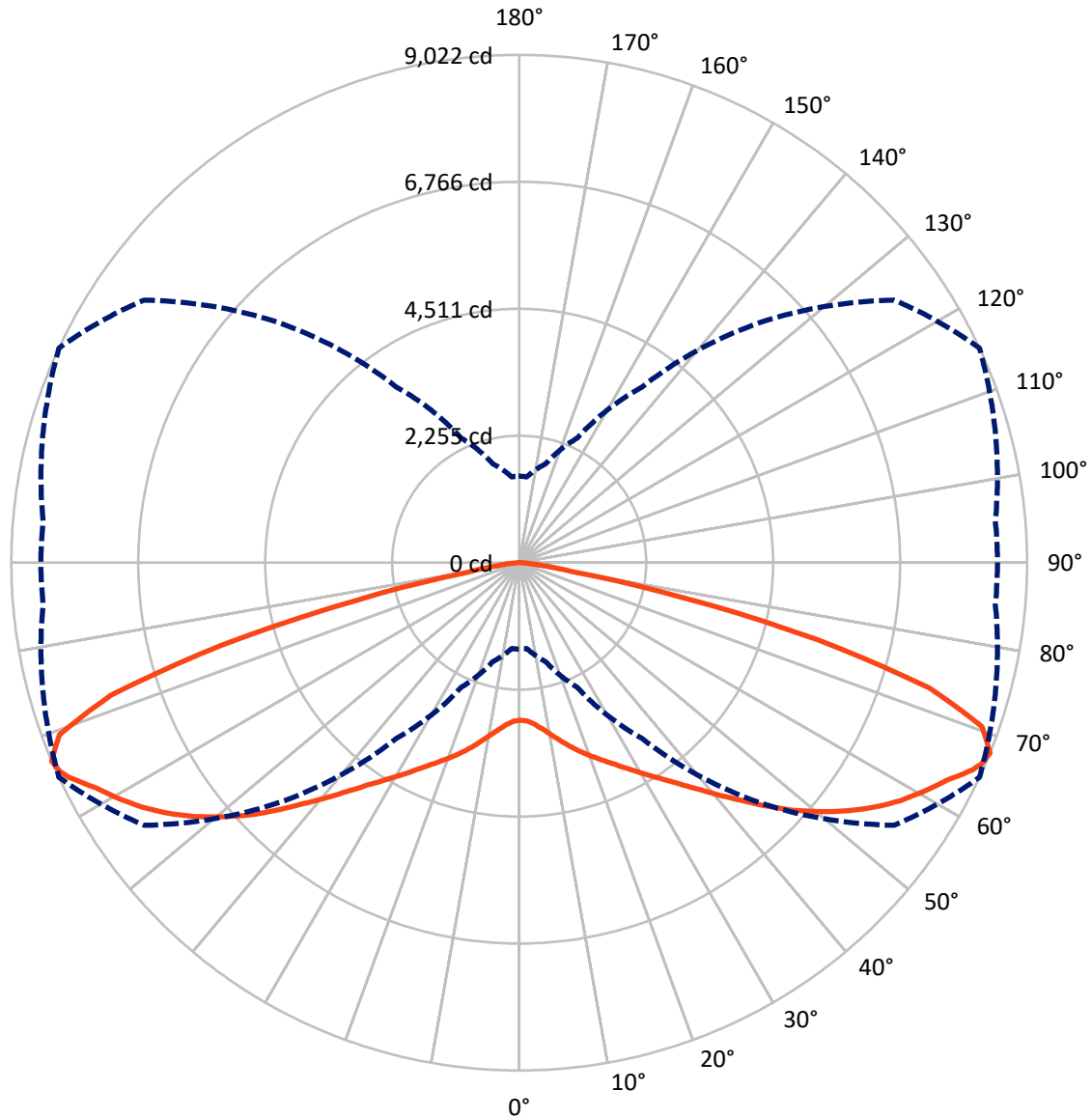
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P454516  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GALN-SA5C-827-U-RW

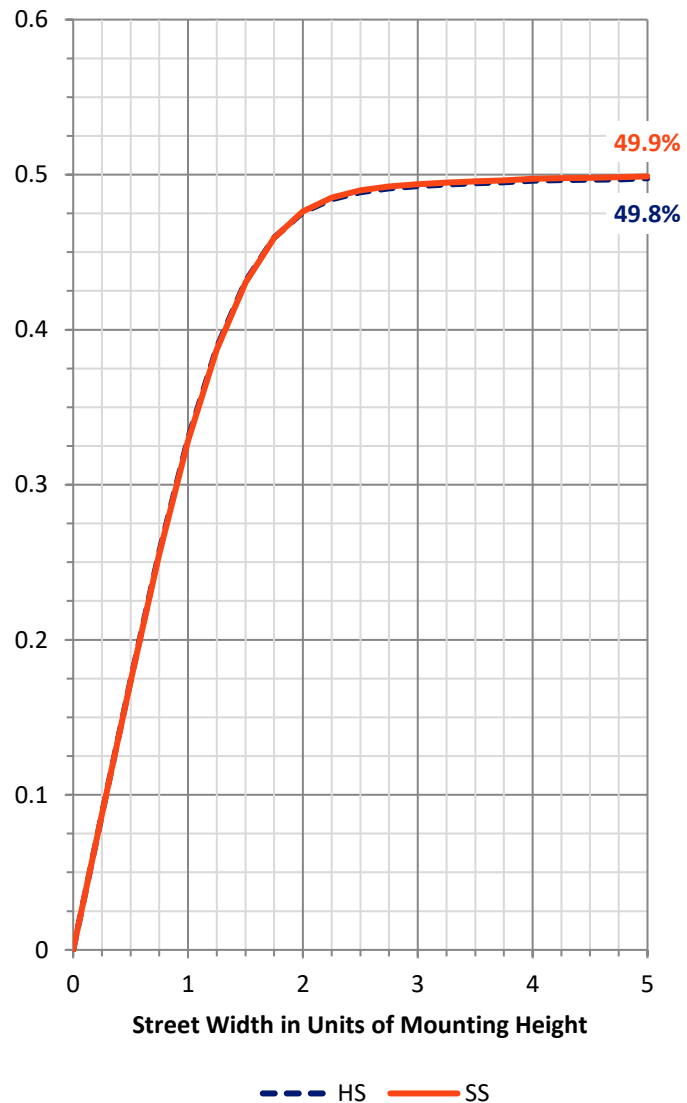
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13351.5	0.0	13351.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13351.5	0.0	13351.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26703.0	0.0	26703.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.9	1.0
10°-20°	923.2	3.5
20°-30°	1805.9	6.8
30°-40°	3071.7	11.5
40°-50°	4861.5	18.2
50°-60°	6446.3	24.1
60°-70°	6080.8	22.8
70°-80°	3006.0	11.3
80°-90°	231.7	0.9
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°	26703.0	100.0
0°-180°	26703.0	100.0



REPORT NUMBER: P454516

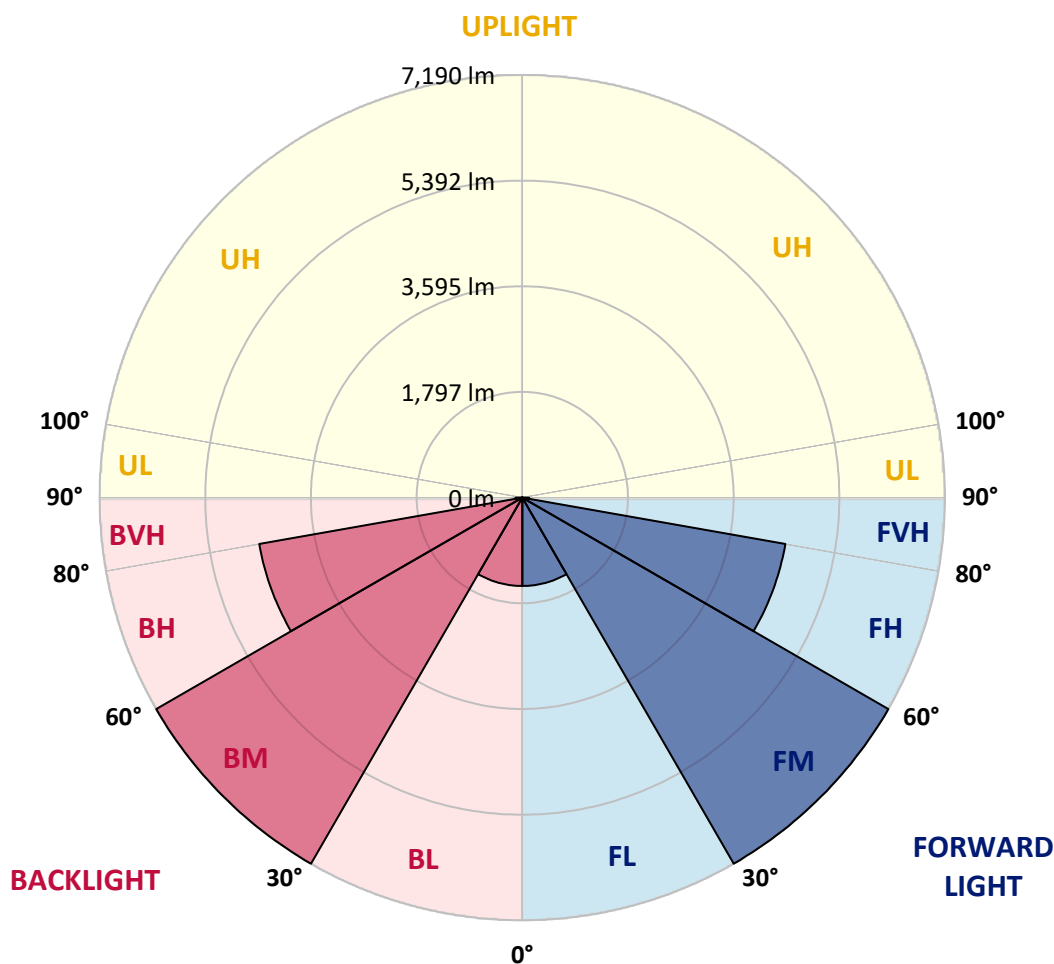
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1502.5	5.6			
FM	(30°-60°)	7189.7	26.9			
FH	(60°-80°)	4543.4	17.0			G2/5000
FVH	(80°-90°)	115.8	0.4			G2/225
BL	(0°-30°)	1502.5	5.6	B3/2500		
BM	(30°-60°)	7189.7	26.9	B4/8500		
BH	(60°-80°)	4543.4	17.0	B4/5000		G4/5000
BVH	(80°-90°)	115.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9
2.5°	2782.6	2785.5	2788.3	2792.6	2798.3	2806.9	2812.6	2816.9	2828.4	2829.8	2828.4
5°	2772.6	2775.4	2782.6	2795.5	2814.1	2839.8	2859.9	2884.2	2902.8	2915.6	2912.8
7.5°	2771.2	2776.9	2788.3	2815.5	2851.3	2895.6	2941.4	2982.9	3018.7	3047.3	3043.0
10°	2794.0	2801.2	2819.8	2859.9	2915.6	2980.0	3044.4	3105.9	3157.4	3194.6	3207.5
12.5°	2832.7	2838.4	2872.7	2932.8	3012.9	3093.0	3166.0	3241.8	3313.4	3376.3	3376.3
15°	2899.9	2909.9	2952.8	3040.1	3138.8	3231.8	3306.2	3386.3	3463.6	3535.1	3556.6
17.5°	2992.9	3007.2	3071.6	3183.2	3309.1	3394.9	3465.0	3530.8	3598.1	3666.7	3676.7
20°	3120.2	3134.5	3220.4	3354.9	3503.6	3606.6	3653.9	3669.6	3702.5	3768.3	3776.9
22.5°	3293.3	3307.6	3403.5	3555.1	3721.1	3832.7	3852.7	3815.5	3806.9	3858.4	3864.2
25°	3489.3	3502.2	3612.4	3775.5	3947.1	4068.7	4063.0	3971.5	3920.0	3951.4	3960.0
27.5°	3709.7	3728.3	3839.8	4008.7	4194.6	4301.9	4284.8	4151.7	4041.6	4035.8	4038.7
30°	3991.5	4011.5	4117.4	4279.0	4462.2	4560.9	4525.1	4346.3	4176.0	4118.8	4118.8
32.5°	4289.1	4339.1	4446.4	4615.2	4758.3	4829.8	4775.5	4560.9	4334.8	4254.7	4250.4
35°	4676.8	4703.9	4809.8	4974.3	5081.6	5137.4	5033.0	4802.7	4542.3	4447.9	4435.0
37.5°	5055.9	5078.8	5201.8	5359.2	5489.4	5486.5	5344.9	5090.2	4799.8	4693.9	4685.4
40°	5443.6	5467.9	5608.1	5752.6	5882.8	5871.4	5699.7	5415.0	5106.0	4987.2	5010.1
42.5°	5779.8	5807.0	5965.8	6171.8	6289.1	6286.2	6087.4	5766.9	5445.0	5339.2	5359.2
45°	6085.9	6110.3	6294.8	6530.9	6702.6	6724.0	6506.6	6167.5	5837.0	5701.1	5706.8
47.5°	6302.0	6347.8	6540.9	6811.3	7044.5	7120.3	6907.1	6575.2	6194.7	6053.0	6061.6
50°	6466.5	6495.1	6705.4	7013.0	7307.7	7465.1	7293.4	6952.9	6552.3	6402.1	6422.1
52.5°	6486.5	6520.9	6749.8	7104.6	7482.3	7721.2	7636.8	7322.0	6917.2	6762.6	6805.6
55°	6323.4	6343.5	6616.7	7047.3	7550.9	7911.4	7932.9	7665.4	7264.8	7147.5	7176.1
57.5°	5858.5	5910.0	6256.2	6779.8	7456.5	8013.0	8154.7	7977.3	7616.7	7500.9	7546.6
60°	5095.9	5147.4	5495.1	6158.9	7100.3	7965.8	8337.8	8253.4	7935.8	7842.8	7867.1
62.5°	3992.9	3988.6	4419.3	5233.3	6392.1	7734.0	8473.7	8519.5	8250.5	8133.2	8170.4
65°	2588.0	2600.9	3017.2	3894.2	5323.4	7144.6	8503.7	8858.5	8559.5	8382.1	8409.3
66°	2081.6	2120.2	2473.6	3281.9	4778.3	6758.3	8413.6	8958.7	8653.9	8439.4	8452.2
67.5°	1536.5	1529.4	1819.8	2443.5	3815.5	6024.4	8131.8	9021.6	8761.2	8490.9	8496.6
70°	877.0	875.6	978.6	1341.9	2243.2	4241.9	6854.2	8719.8	8978.7	8676.8	8661.1
72.5°	640.9	636.6	650.9	741.1	1094.4	2141.7	4728.3	7621.0	8867.1	8646.8	8602.4
75°	537.9	535.1	532.2	543.6	613.7	970.0	2509.3	5482.2	7694.0	8116.0	8070.2
77.5°	439.2	439.2	440.6	437.8	440.6	510.7	1040.1	2938.5	4685.4	5230.4	5357.8
80°	343.4	341.9	366.2	356.2	333.3	327.6	460.7	945.7	1555.1	1546.5	1276.1
82.5°	253.2	236.1	279.0	271.8	246.1	208.9	269.0	403.4	519.3	337.6	250.4
85°	160.2	158.8	197.4	180.3	150.2	98.7	128.8	173.1	214.6	130.2	105.9
87.5°	28.6	27.2	62.9	45.8	45.8	28.6	35.8	47.2	70.1	48.6	35.8
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)