

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: P532073

Luminaire Tested: **GALN-SA7B-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532073
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-SA7B-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 16428 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 286
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

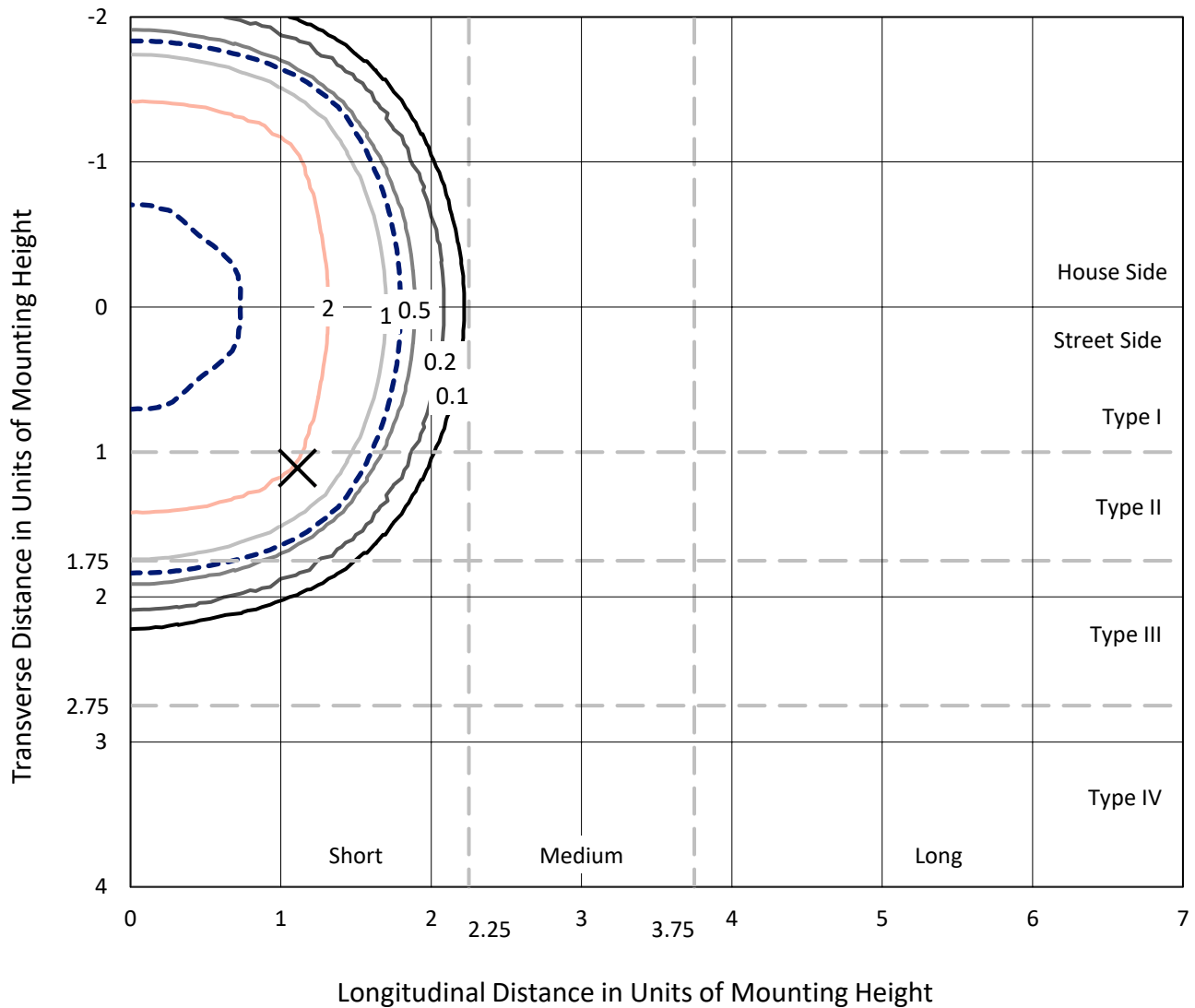


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Iso-Footcandle Lines of Horizontal Illumination

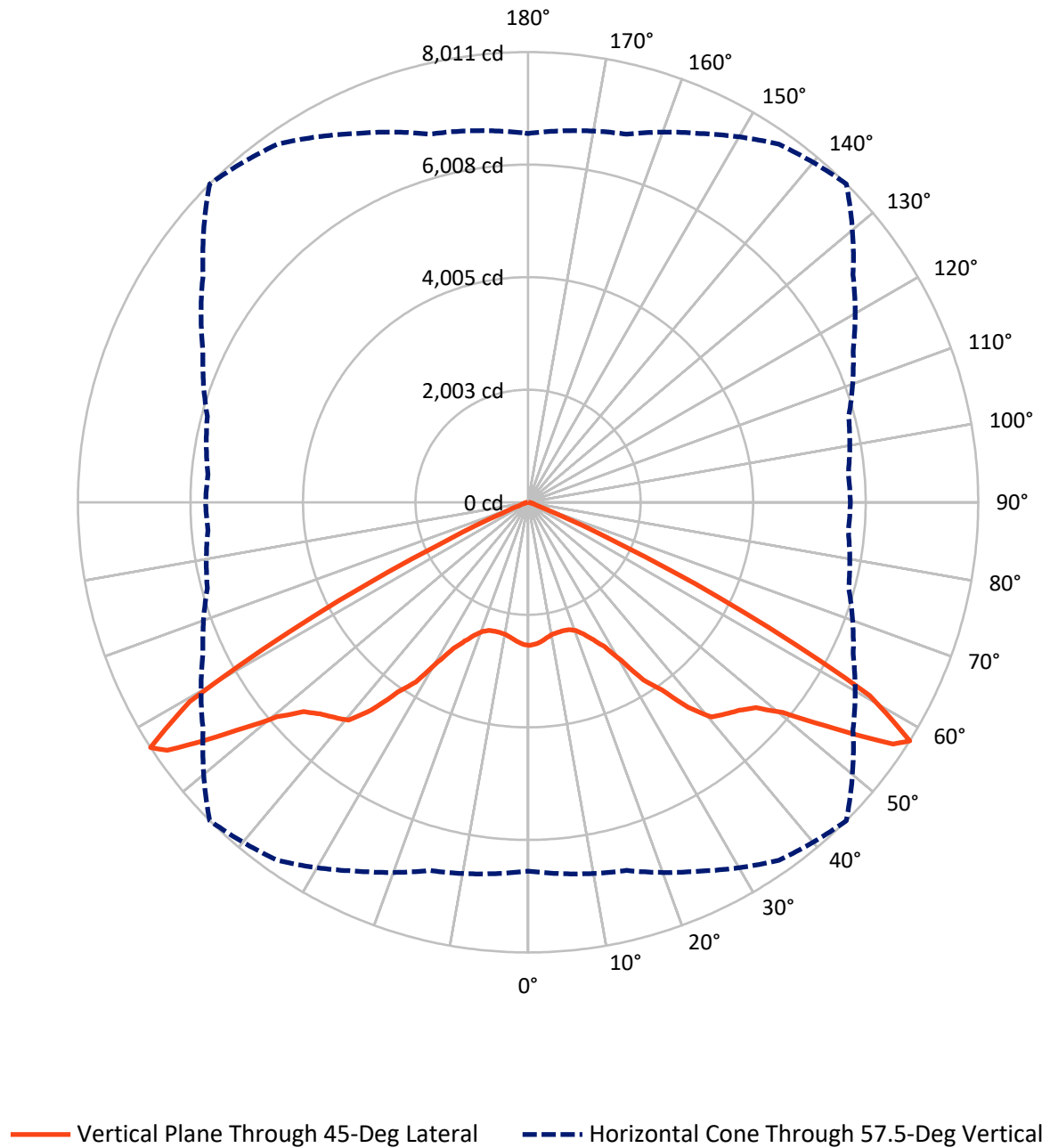
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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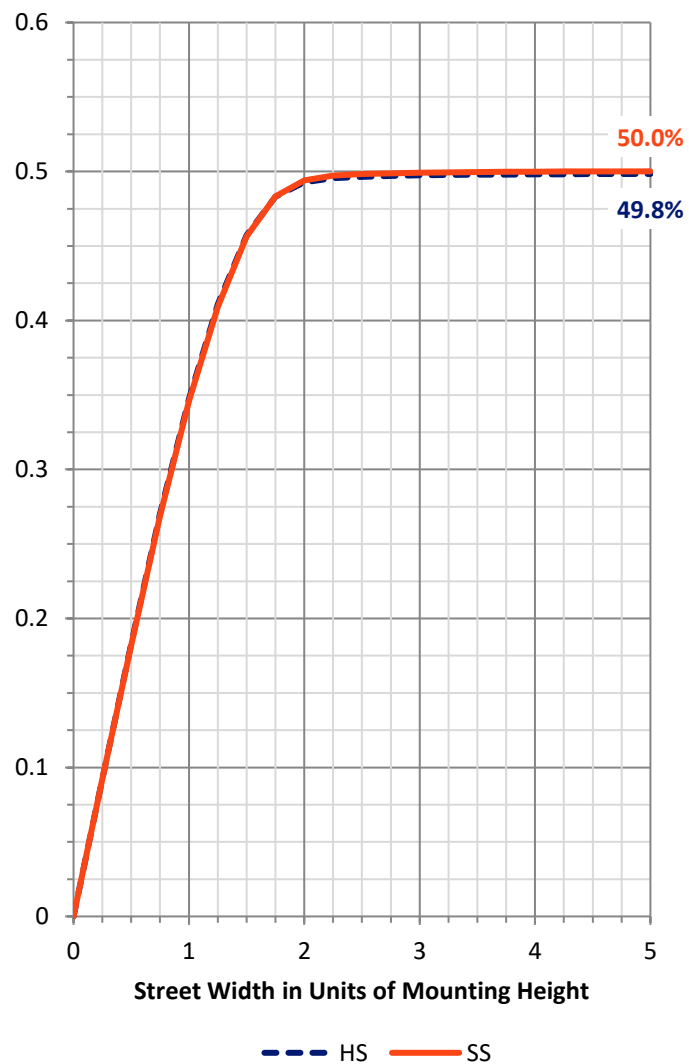
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8214.0	0.0	8214.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8214.0	0.0	8214.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16428.0	0.0	16428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	1.4
10°-20°	676.8	4.1
20°-30°	1249.4	7.6
30°-40°	2457.0	15.0
40°-50°	4001.8	24.4
50°-60°	5707.0	34.7
60°-70°	1975.9	12.0
70°-80°	106.0	0.6
80°-90°	19.9	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°	16428.0	100.0
0°-180°	16428.0	100.0

Coefficient of Utilization



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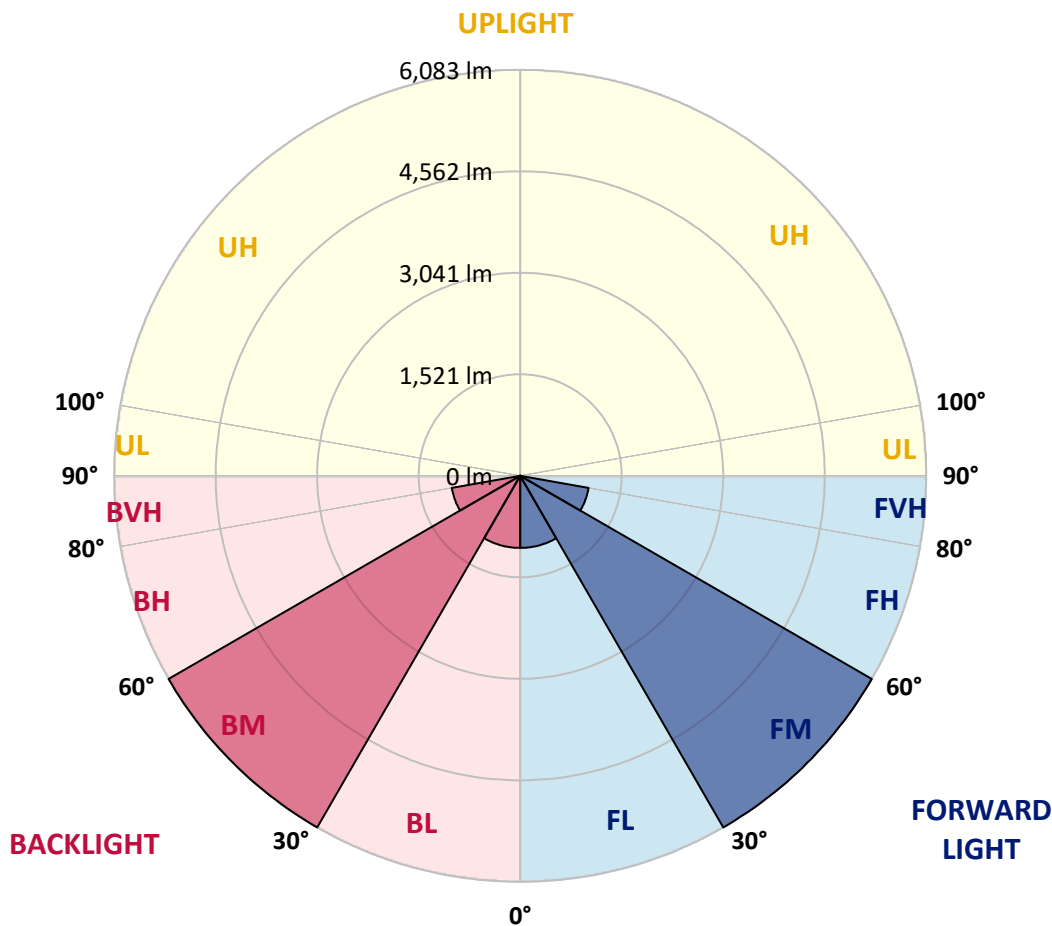
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1080.2	6.6			
FM	(30°-60°)	6082.9	37.0			
FH	(60°-80°)	1041.0	6.3			G1/1800
FVH	(80°-90°)	10.0	0.1			G0/10
BL	(0°-30°)	1080.2	6.6	B3/2500		
BM	(30°-60°)	6082.9	37.0	B4/8500		
BH	(60°-80°)	1041.0	6.3	B3/2500		G1/1800
BVH	(80°-90°)	10.0	0.1			G0/10
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°	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2
2.5°	2541.3	2555.0	2537.9	2531.0	2527.6	2527.6	2517.3	2517.3	2513.9	2517.3	2503.6
5°	2500.2	2513.9	2513.9	2510.5	2489.9	2486.5	2476.2	2469.4	2472.8	2459.1	2469.4
7.5°	2459.1	2469.4	2455.7	2452.3	2445.4	2431.7	2428.3	2397.5	2400.9	2400.9	2407.7
10°	2452.3	2448.8	2428.3	2411.2	2390.6	2387.2	2376.9	2370.1	2370.1	2366.6	2376.9
12.5°	2452.3	2435.1	2431.7	2394.0	2359.8	2373.5	2346.1	2329.0	2352.9	2359.8	2373.5
15°	2448.8	2466.0	2407.7	2390.6	2366.6	2370.1	2346.1	2329.0	2342.7	2349.5	2359.8
17.5°	2469.4	2459.1	2442.0	2407.7	2397.5	2383.8	2352.9	2339.2	2339.2	2356.4	2359.8
20°	2524.2	2496.8	2462.5	2445.4	2455.7	2438.6	2400.9	2349.5	2363.2	2376.9	2387.2
22.5°	2575.6	2555.0	2531.0	2520.8	2579.0	2551.6	2486.5	2428.3	2407.7	2431.7	2448.8
25°	2674.9	2674.9	2630.4	2644.1	2709.1	2712.6	2637.2	2534.5	2520.8	2531.0	2537.9
27.5°	2876.9	2887.2	2849.5	2863.2	2890.6	2914.6	2849.5	2763.9	2733.1	2729.7	2740.0
30°	3096.1	3116.7	3113.3	3171.5	3250.3	3264.0	3168.1	3027.6	2935.2	2918.0	2931.7
32.5°	3383.8	3394.1	3387.3	3455.8	3668.1	3767.4	3517.4	3318.8	3195.5	3226.3	3195.5
35°	3925.0	3914.7	3839.4	3853.1	4027.7	4099.7	3859.9	3733.2	3675.0	3736.6	3722.9
37.5°	4390.8	4353.1	4291.4	4380.5	4562.0	4627.1	4377.1	4154.5	4048.3	4151.0	4195.6
40°	4784.6	4688.7	4603.1	4692.2	4935.3	5024.4	4657.9	4476.4	4435.3	4510.6	4606.5
42.5°	5116.9	5055.2	4942.2	4949.0	5110.0	5151.1	4856.6	4750.4	4709.3	4829.2	4877.1
45°	5353.2	5295.0	5188.8	5181.9	5305.2	5277.8	5014.1	4942.2	4966.2	5044.9	5068.9
47.5°	5473.1	5503.9	5442.2	5459.4	5524.4	5459.4	5250.4	5250.4	5195.6	5243.6	5219.6
50°	5819.0	5723.1	5801.8	5801.8	5870.3	5877.2	5668.3	5592.9	5445.7	5363.5	5363.5
52.5°	6223.1	6230.0	6260.8	6373.8	6490.3	6589.6	6291.6	5969.7	5723.1	5616.9	5603.2
55°	6555.3	6623.8	6747.1	6959.5	7295.1	7432.1	6918.4	6343.0	6041.6	5877.2	5842.9
56°	6736.9	6671.8	6884.1	7175.2	7613.6	7791.7	7021.1	6418.3	6086.1	5901.2	5897.7
57.5°	6562.2	6634.1	6781.4	7240.3	7778.0	8010.9	7058.8	6384.1	5908.0	5719.6	5736.8
60°	5181.9	5250.4	5449.1	5962.8	6805.4	6986.9	5973.1	5264.1	4839.4	4568.9	4572.3
62.5°	2931.7	2983.1	3137.2	3613.3	4137.3	4312.0	3722.9	3250.3	2955.7	2805.0	2757.1
65°	1078.9	1058.3	1082.3	1325.5	1647.4	1794.7	1548.1	1308.3	1154.2	1099.4	1078.9
67.5°	404.1	373.3	349.3	373.3	469.2	496.6	455.5	380.2	356.2	366.5	373.3
70°	250.0	236.3	188.4	178.1	174.7	171.2	181.5	191.8	219.2	256.9	263.7
72.5°	174.7	164.4	133.6	126.7	119.9	116.4	133.6	147.3	171.2	198.6	202.1
75°	68.5	71.9	68.5	75.3	78.8	82.2	95.9	106.2	116.4	116.4	113.0
77.5°	13.7	13.7	20.5	27.4	34.2	44.5	65.1	75.3	78.8	75.3	65.1
80°	0.0	0.0	6.8	13.7	27.4	37.7	58.2	65.1	71.9	65.1	51.4
82.5°	0.0	0.0	6.8	17.1	27.4	34.2	54.8	68.5	78.8	71.9	54.8
85°	0.0	0.0	6.8	13.7	20.5	24.0	24.0	17.1	17.1	10.3	6.8
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)