

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: P452468

Luminaire Tested: **GALN-SA3B-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13474 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 121
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

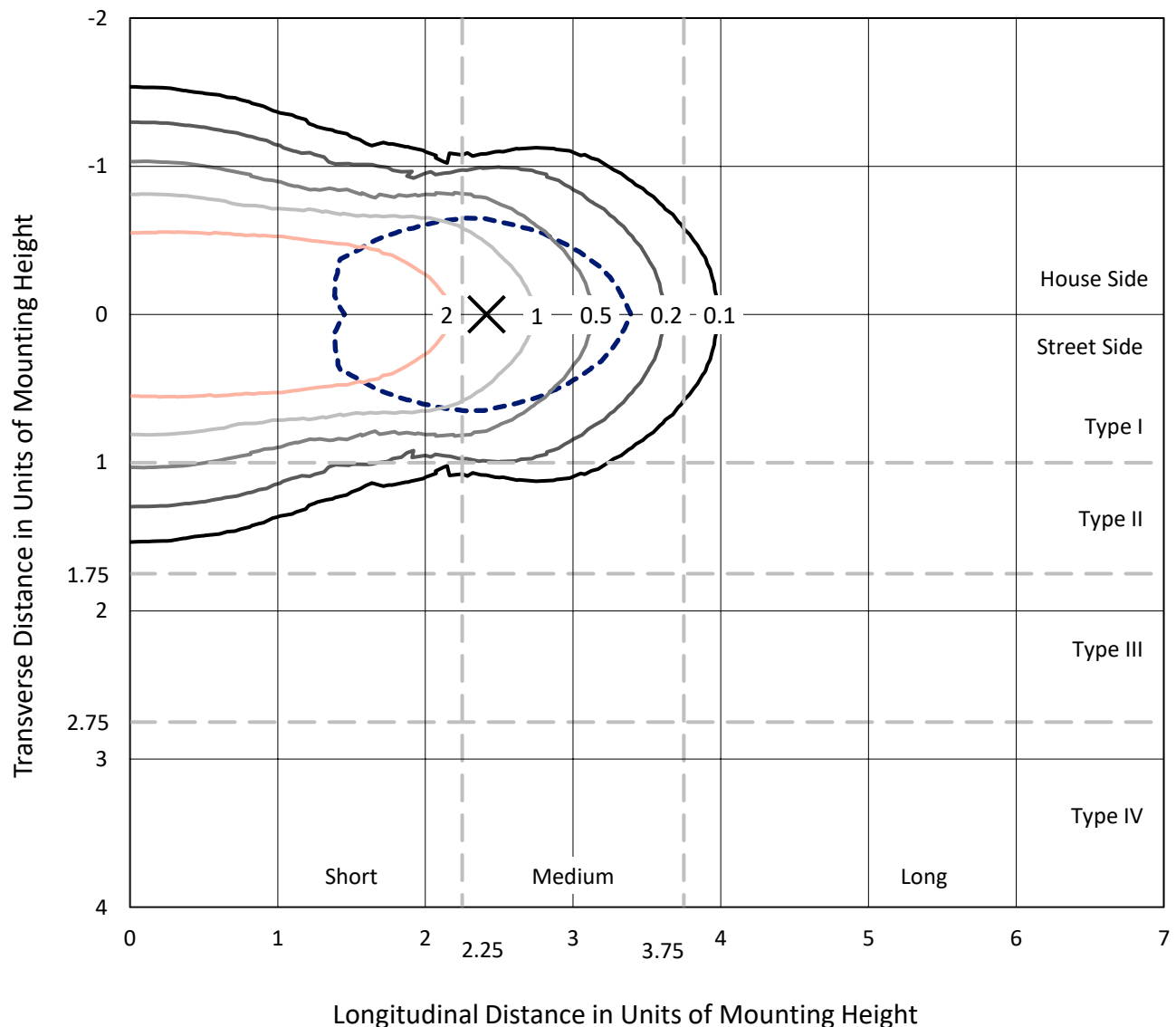


REPORT NUMBER: P452468

CATALOG NUMBER: GALN-SA3B-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



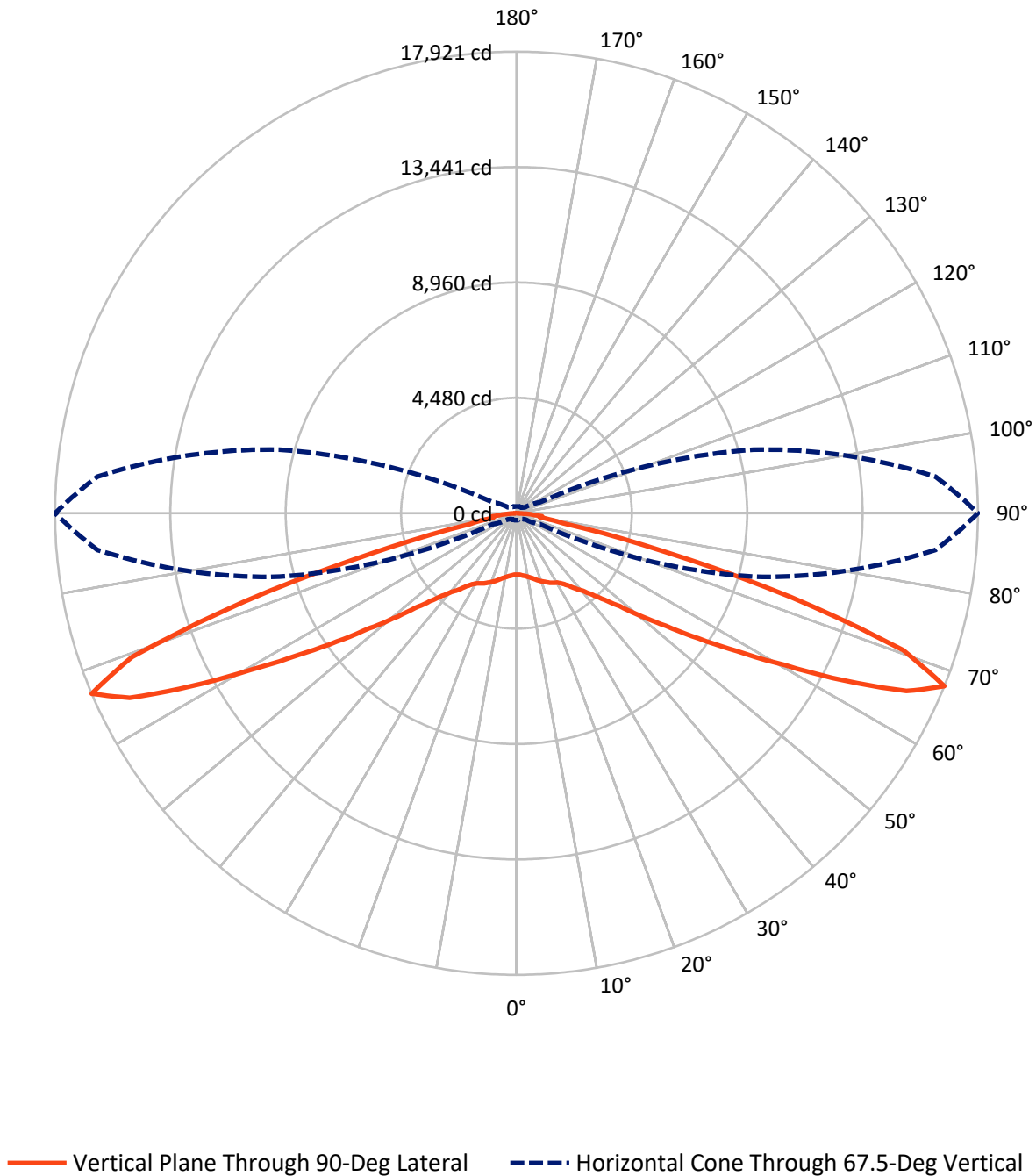
Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type I - Short - N/A

REPORT NUMBER: P452468

CATALOG NUMBER: GALN-SA3B-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P452468

CATALOG NUMBER: GALN-SA3B-830-U-T1

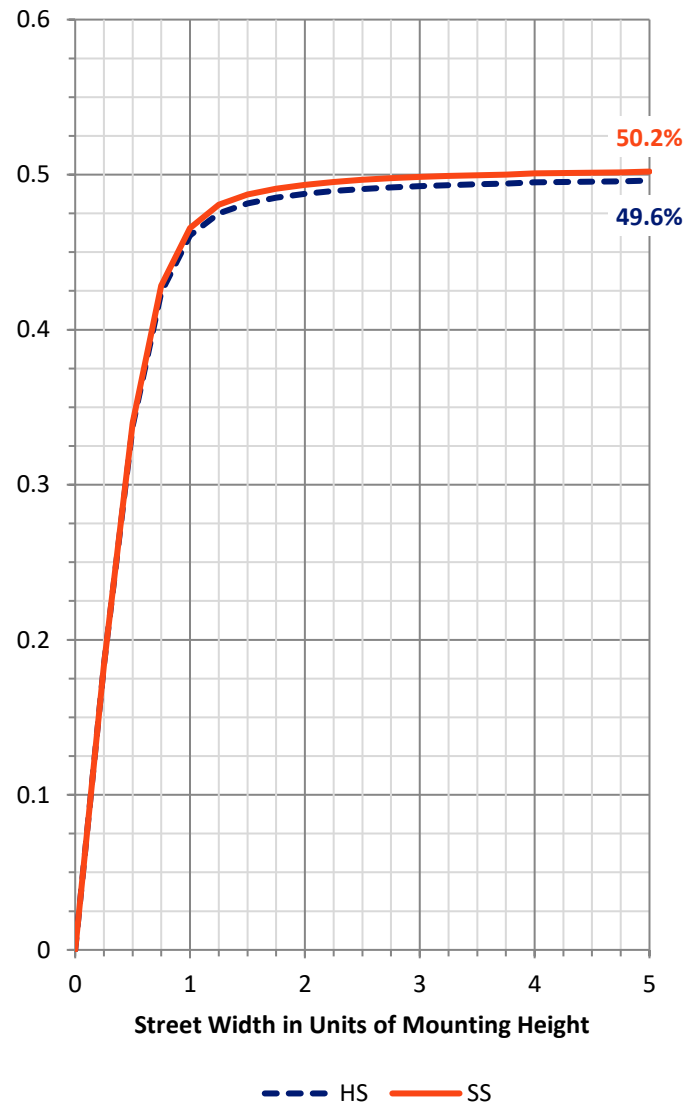
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6737.0	0.0	6737.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6737.0	0.0	6737.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13474.0	0.0	13474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	1.8
10°-20°	760.9	5.6
20°-30°	1273.5	9.5
30°-40°	1725.3	12.8
40°-50°	2185.4	16.2
50°-60°	2730.1	20.3
60°-70°	3209.1	23.8
70°-80°	1227.6	9.1
80°-90°	124.4	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°	13474.0	100.0
0°-180°	13474.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452468

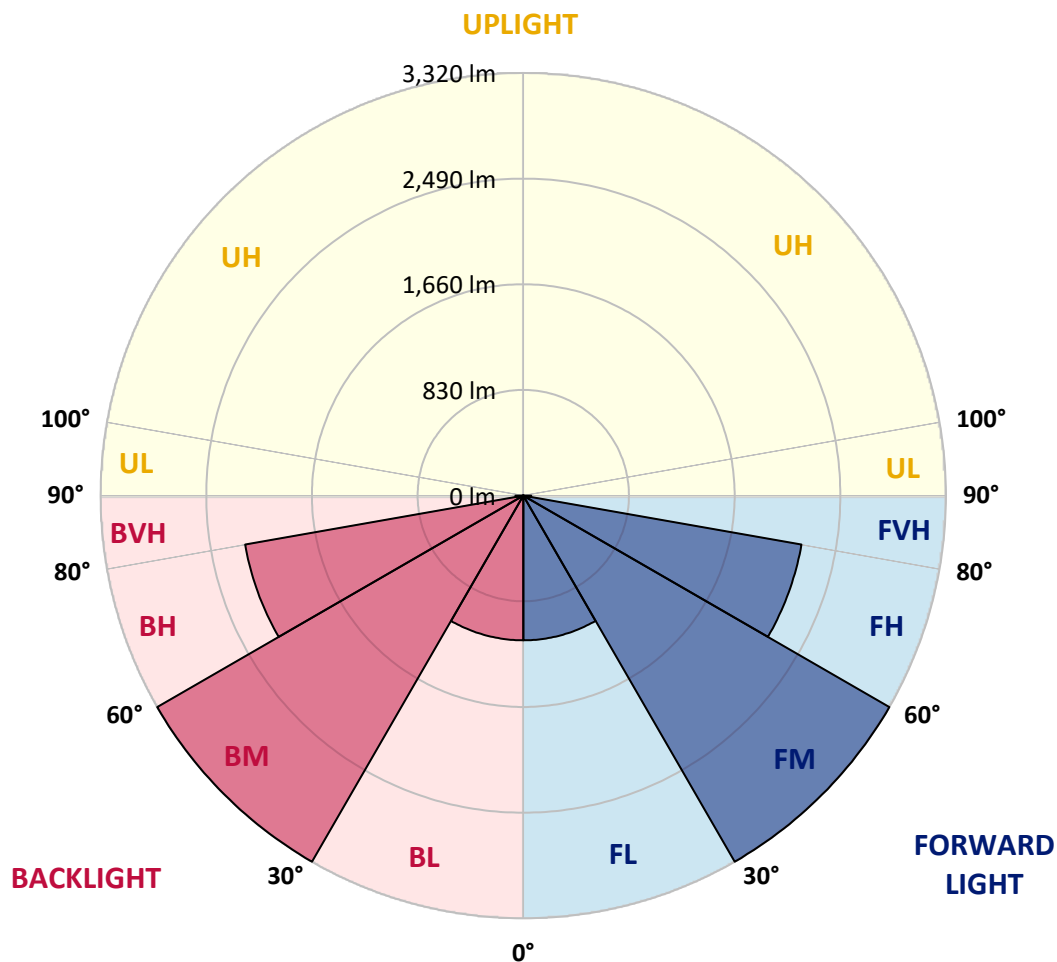
CATALOG NUMBER: GALN-SA3B-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.1	8.4			
FM	(30°-60°)	3320.4	24.6			
FH	(60°-80°)	2218.3	16.5			G2/5000
FVH	(80°-90°)	62.2	0.5			G1/100
BL	(0°-30°)	1136.1	8.4	B3/2500		
BM	(30°-60°)	3320.4	24.6	B3/5000		
BH	(60°-80°)	2218.3	16.5	B3/2500		G3/2500
BVH	(80°-90°)	62.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



REPORT NUMBER: P452468

CATALOG NUMBER: GALN-SA3B-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2385.3	2385.3	2385.3	2385.3	2385.3	2385.3	2385.3	2385.3	2385.3	2385.3	2385.3
2.5°	2415.9	2414.4	2415.2	2414.4	2416.7	2415.2	2406.2	2398.7	2392.8	2393.5	2391.3
5°	2467.4	2468.1	2468.9	2465.2	2470.4	2467.4	2453.2	2441.3	2429.3	2424.9	2423.4
7.5°	2509.9	2513.6	2515.9	2519.6	2528.6	2528.6	2521.1	2503.9	2477.8	2462.9	2462.2
10°	2552.4	2555.4	2562.1	2574.1	2589.0	2603.2	2600.2	2577.1	2543.5	2518.1	2512.2
12.5°	2567.4	2571.1	2593.5	2627.8	2661.4	2689.0	2689.0	2670.3	2627.1	2588.3	2577.1
15°	2515.1	2521.9	2562.1	2635.3	2723.3	2783.7	2797.2	2771.1	2724.8	2665.1	2651.7
17.5°	2411.4	2427.8	2486.8	2595.0	2741.2	2866.6	2905.4	2892.7	2833.0	2756.9	2741.2
20°	2300.3	2318.2	2380.8	2524.1	2726.3	2915.1	3027.7	3030.7	2956.8	2846.4	2823.3
22.5°	2177.9	2191.3	2271.9	2439.8	2681.5	2926.2	3132.9	3184.4	3084.4	2935.9	2903.1
25°	2040.6	2055.5	2139.8	2321.2	2597.2	2913.6	3229.2	3342.6	3218.0	3031.4	2989.7
27.5°	1909.3	1915.3	2005.5	2189.8	2486.0	2880.7	3300.0	3488.1	3365.7	3110.5	3057.6
30°	1783.2	1797.4	1877.2	2059.3	2358.5	2816.6	3361.2	3653.7	3524.6	3193.4	3125.5
32.5°	1649.7	1666.8	1753.4	1937.7	2230.9	2720.3	3398.5	3835.0	3746.2	3327.7	3255.3
35°	1521.3	1532.5	1619.8	1798.9	2106.3	2608.4	3405.3	4039.4	4032.0	3531.3	3435.1
37.5°	1390.0	1406.4	1494.5	1666.1	1974.2	2489.8	3371.7	4256.6	4376.7	3814.1	3710.4
40°	1263.9	1278.1	1364.6	1537.7	1824.2	2345.0	3291.8	4455.0	4778.8	4105.1	3958.1
42.5°	1126.6	1130.4	1225.1	1401.2	1677.3	2177.2	3176.9	4631.9	5227.3	4495.3	4312.5
45°	970.7	980.4	1068.4	1241.5	1508.6	1989.1	3021.0	4778.1	5795.8	5036.3	4787.0
47.5°	814.8	823.0	903.5	1074.4	1324.3	1773.5	2780.8	4906.4	6379.3	5723.4	5396.6
50°	662.5	667.0	732.7	884.1	1116.9	1546.7	2483.1	4947.5	7038.8	6696.3	6279.3
52.5°	523.8	530.5	580.5	699.1	895.3	1278.8	2161.5	4846.0	7808.8	7849.8	7261.9
55°	424.5	426.8	464.1	551.4	699.9	998.3	1773.5	4563.2	8637.0	9327.9	8578.0
57.5°	365.6	367.1	388.0	436.5	538.7	752.8	1375.8	4028.3	9380.9	11059.6	10095.6
60°	332.0	332.8	344.7	373.1	426.8	577.5	985.6	3273.2	10115.0	12986.8	11981.8
62.5°	311.1	311.1	319.3	335.0	361.1	443.2	714.0	2361.4	10617.9	14942.4	14306.7
65°	291.0	291.0	297.0	308.1	322.3	362.6	527.5	1540.0	10605.2	16366.7	16645.0
67.5°	267.9	267.9	272.3	283.5	291.7	311.9	407.4	1008.7	9526.3	16335.4	17920.8
70°	240.2	240.2	246.2	255.9	262.6	275.3	321.6	690.2	6998.5	13947.8	15937.7
72.5°	212.6	213.4	217.1	226.8	232.0	239.5	267.1	483.5	4293.1	9497.2	11143.9
75°	182.1	183.5	187.3	197.0	201.5	204.4	225.3	344.7	2171.9	5120.6	5830.1
77.5°	147.0	150.0	152.2	162.7	165.6	170.1	185.8	249.2	953.5	1839.9	1856.3
80°	107.4	111.2	117.9	127.6	129.8	132.8	141.8	176.8	432.0	840.1	912.5
82.5°	79.1	84.3	76.1	88.8	88.8	85.1	100.0	118.6	198.5	831.9	995.3
85°	43.3	44.0	39.5	45.5	48.5	47.8	53.0	58.2	96.2	555.1	572.3
87.5°	10.4	11.2	11.9	14.2	17.2	17.2	18.7	16.4	31.3	179.8	103.0
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)