

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: P528927

Luminaire Tested: **GALN-SA4A-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528927
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-SA4A-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA 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: 9437 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

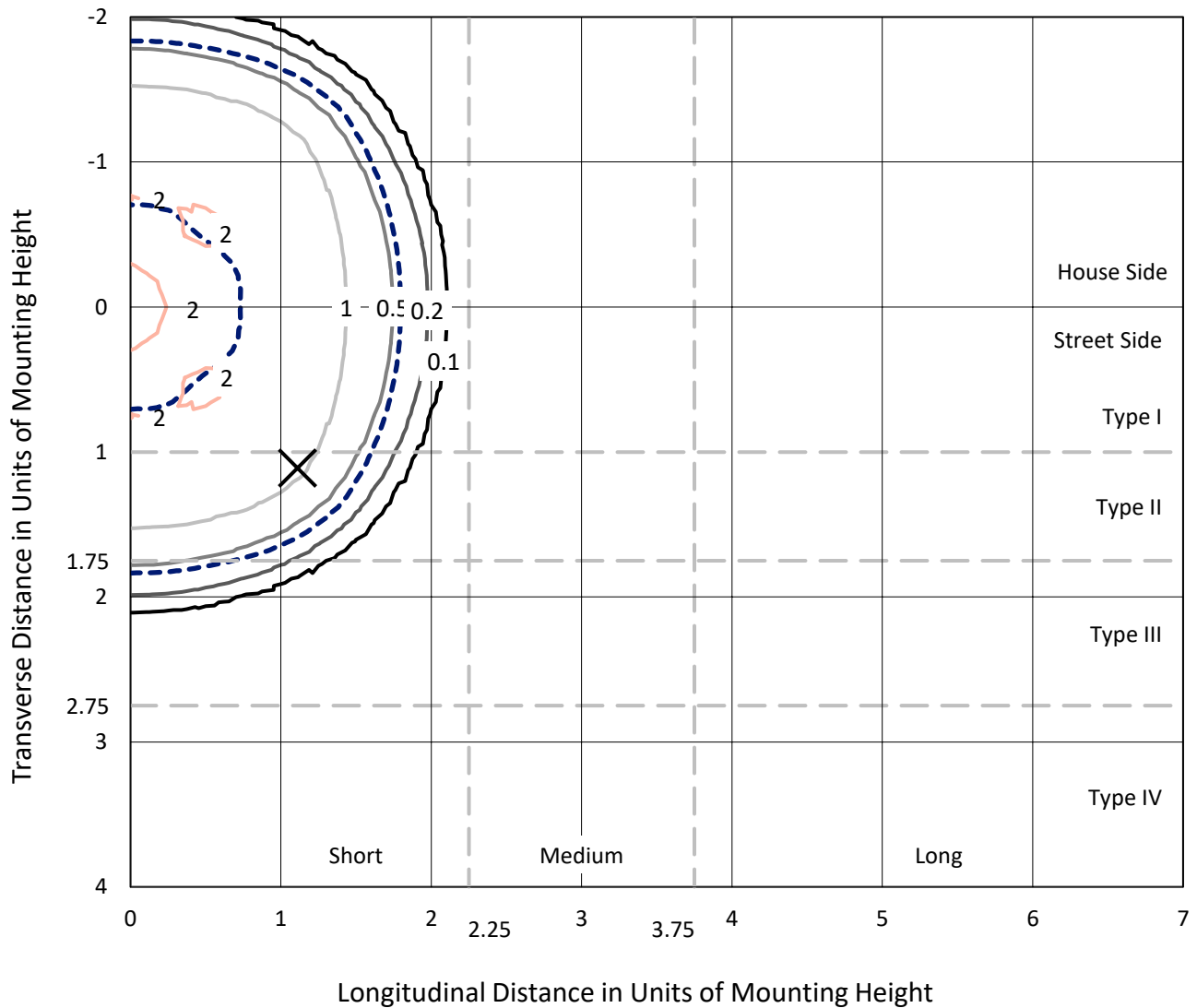
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

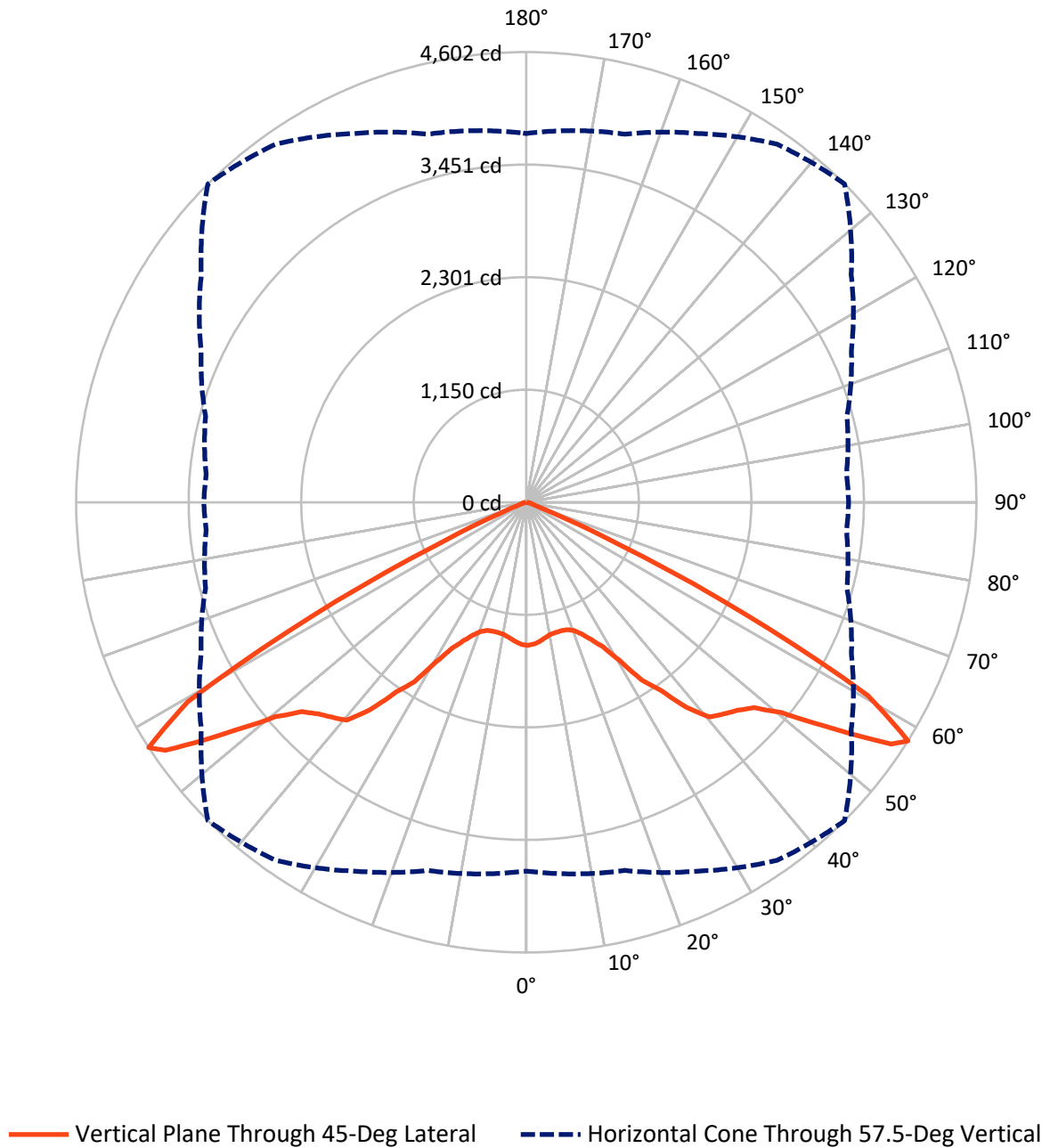
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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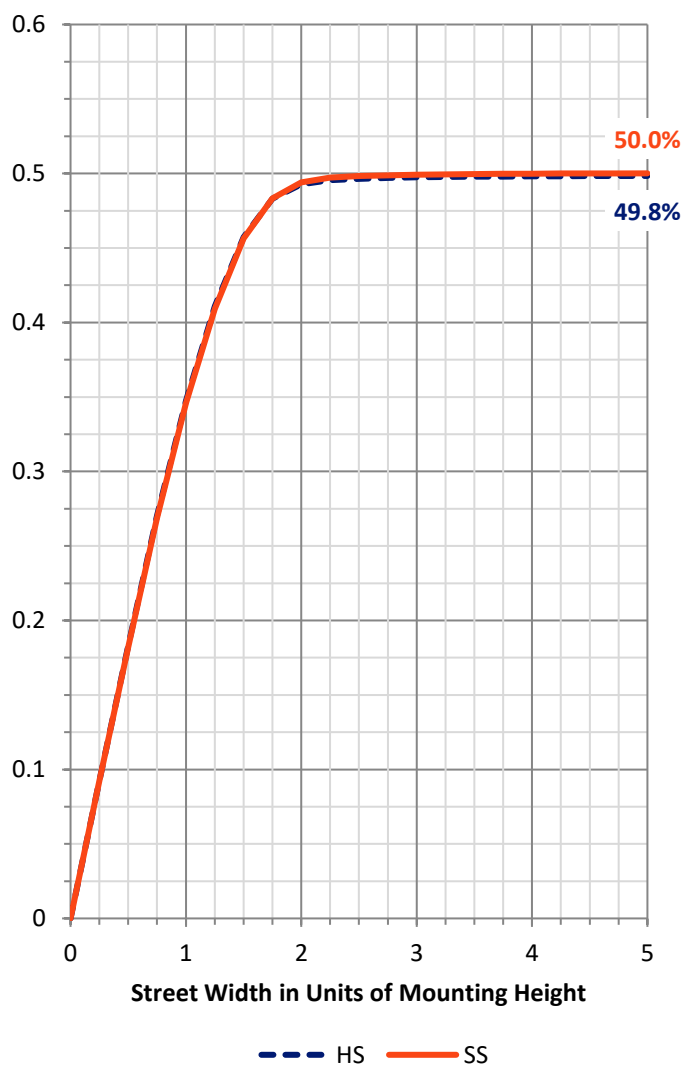
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4718.5	0.0	4718.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4718.5	0.0	4718.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9437.0	0.0	9437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.4
10°-20°	388.8	4.1
20°-30°	717.7	7.6
30°-40°	1411.4	15.0
40°-50°	2298.8	24.4
50°-60°	3278.4	34.7
60°-70°	1135.1	12.0
70°-80°	60.9	0.6
80°-90°	11.4	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°	9437.0	100.0
0°-180°	9437.0	100.0

Coefficient of Utilization



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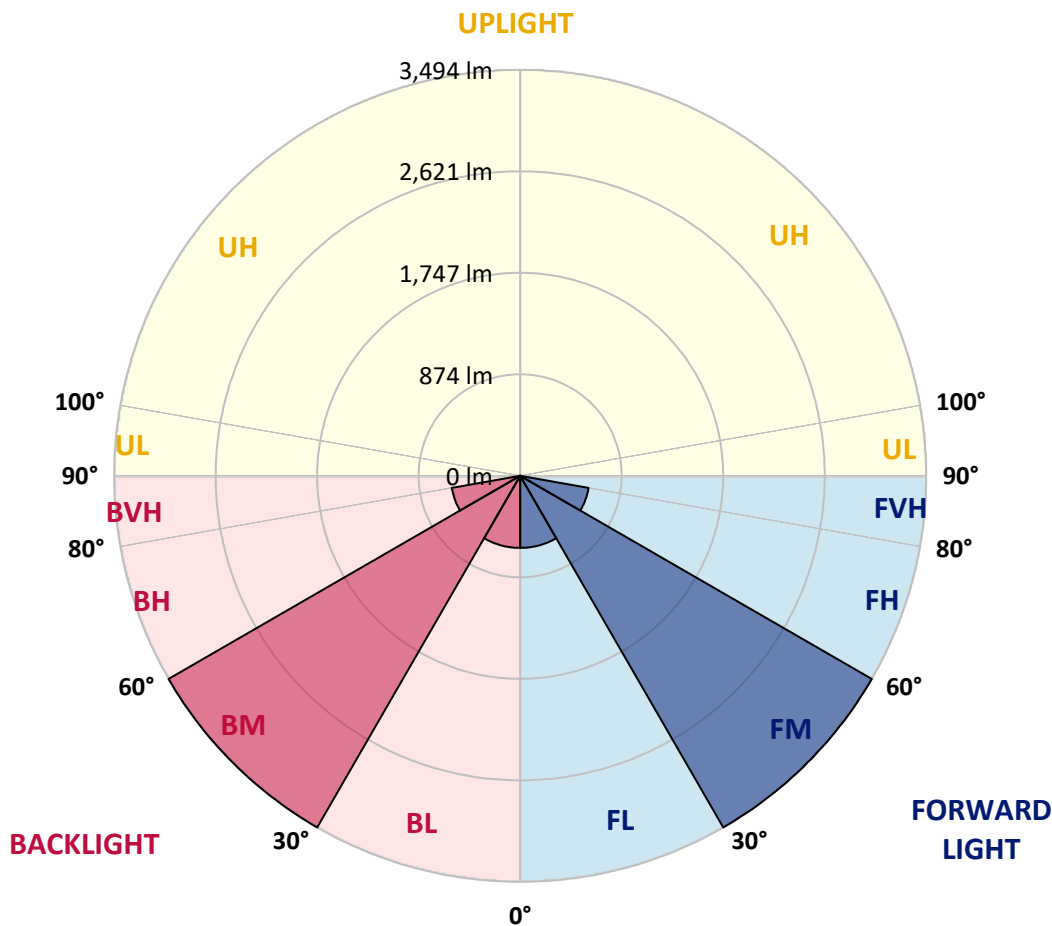
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.5	6.6			
FM (30°-60°)	3494.3	37.0			
FH (60°-80°)	598.0	6.3			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	620.5	6.6	B2/1000		
BM (30°-60°)	3494.3	37.0	B3/5000		
BH (60°-80°)	598.0	6.3	B2/1000		G0/660
BVH (80°-90°)	5.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8
2.5°	1459.8	1467.7	1457.9	1453.9	1452.0	1452.0	1446.1	1446.1	1444.1	1446.1	1438.2
5°	1436.2	1444.1	1444.1	1442.1	1430.3	1428.4	1422.5	1418.5	1420.5	1412.6	1418.5
7.5°	1412.6	1418.5	1410.7	1408.7	1404.8	1396.9	1394.9	1377.2	1379.2	1379.2	1383.1
10°	1408.7	1406.7	1394.9	1385.1	1373.3	1371.3	1365.4	1361.5	1361.5	1359.5	1365.4
12.5°	1408.7	1398.9	1396.9	1375.2	1355.6	1363.4	1347.7	1337.9	1351.6	1355.6	1363.4
15°	1406.7	1416.6	1383.1	1373.3	1359.5	1361.5	1347.7	1337.9	1345.7	1349.7	1355.6
17.5°	1418.5	1412.6	1402.8	1383.1	1377.2	1369.3	1351.6	1343.8	1343.8	1353.6	1355.6
20°	1450.0	1434.3	1414.6	1404.8	1410.7	1400.8	1379.2	1349.7	1357.5	1365.4	1371.3
22.5°	1479.5	1467.7	1453.9	1448.0	1481.5	1465.7	1428.4	1394.9	1383.1	1396.9	1406.7
25°	1536.6	1536.6	1511.0	1518.9	1556.2	1558.2	1514.9	1455.9	1448.0	1453.9	1457.9
27.5°	1652.7	1658.6	1636.9	1644.8	1660.5	1674.3	1636.9	1587.7	1570.0	1568.1	1574.0
30°	1778.6	1790.4	1788.4	1821.9	1867.1	1875.0	1819.9	1739.2	1686.1	1676.3	1684.1
32.5°	1943.8	1949.7	1945.8	1985.1	2107.1	2164.2	2020.6	1906.5	1835.6	1853.3	1835.6
35°	2254.7	2248.8	2205.5	2213.4	2313.7	2355.0	2217.3	2144.5	2111.1	2146.5	2138.6
37.5°	2522.3	2500.6	2465.2	2516.4	2620.6	2658.0	2514.4	2386.5	2325.5	2384.5	2410.1
40°	2748.5	2693.4	2644.2	2695.4	2835.1	2886.2	2675.7	2571.4	2547.8	2591.1	2646.2
42.5°	2939.4	2903.9	2839.0	2843.0	2935.4	2959.0	2789.8	2728.8	2705.2	2774.1	2801.6
45°	3075.1	3041.7	2980.7	2976.7	3047.6	3031.8	2880.3	2839.0	2852.8	2898.0	2911.8
47.5°	3144.0	3161.7	3126.3	3136.1	3173.5	3136.1	3016.1	3016.1	2984.6	3012.2	2998.4
50°	3342.7	3287.6	3332.8	3332.8	3372.2	3376.1	3256.1	3212.8	3128.2	3081.0	3081.0
52.5°	3574.8	3578.8	3596.5	3661.4	3728.3	3785.4	3614.2	3429.3	3287.6	3226.6	3218.7
55°	3765.7	3805.0	3875.9	3997.8	4190.7	4269.4	3974.2	3643.7	3470.6	3376.1	3356.5
56°	3870.0	3832.6	3954.6	4121.8	4373.6	4475.9	4033.3	3687.0	3496.1	3389.9	3387.9
57.5°	3769.6	3810.9	3895.5	4159.2	4468.1	4601.8	4054.9	3667.3	3393.8	3285.6	3295.5
60°	2976.7	3016.1	3130.2	3425.3	3909.3	4013.6	3431.2	3024.0	2780.0	2624.6	2626.5
62.5°	1684.1	1713.6	1802.2	2075.7	2376.7	2477.0	2138.6	1867.1	1697.9	1611.3	1583.8
65°	619.7	607.9	621.7	761.4	946.3	1030.9	889.3	751.6	663.0	631.5	619.7
67.5°	232.2	214.5	200.7	214.5	269.5	285.3	261.7	218.4	204.6	210.5	214.5
70°	143.6	135.8	108.2	102.3	100.3	98.4	104.3	110.2	125.9	147.6	151.5
72.5°	100.3	94.4	76.7	72.8	68.9	66.9	76.7	84.6	98.4	114.1	116.1
75°	39.3	41.3	39.3	43.3	45.3	47.2	55.1	61.0	66.9	66.9	64.9
77.5°	7.9	7.9	11.8	15.7	19.7	25.6	37.4	43.3	45.3	43.3	37.4
80°	0.0	0.0	3.9	7.9	15.7	21.6	33.4	37.4	41.3	37.4	29.5
82.5°	0.0	0.0	3.9	9.8	15.7	19.7	31.5	39.3	45.3	41.3	31.5
85°	0.0	0.0	3.9	7.9	11.8	13.8	13.8	9.8	9.8	5.9	3.9
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)