

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P629172

Luminaire Tested: GWS-SA1B-727-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-727-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3052.2 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

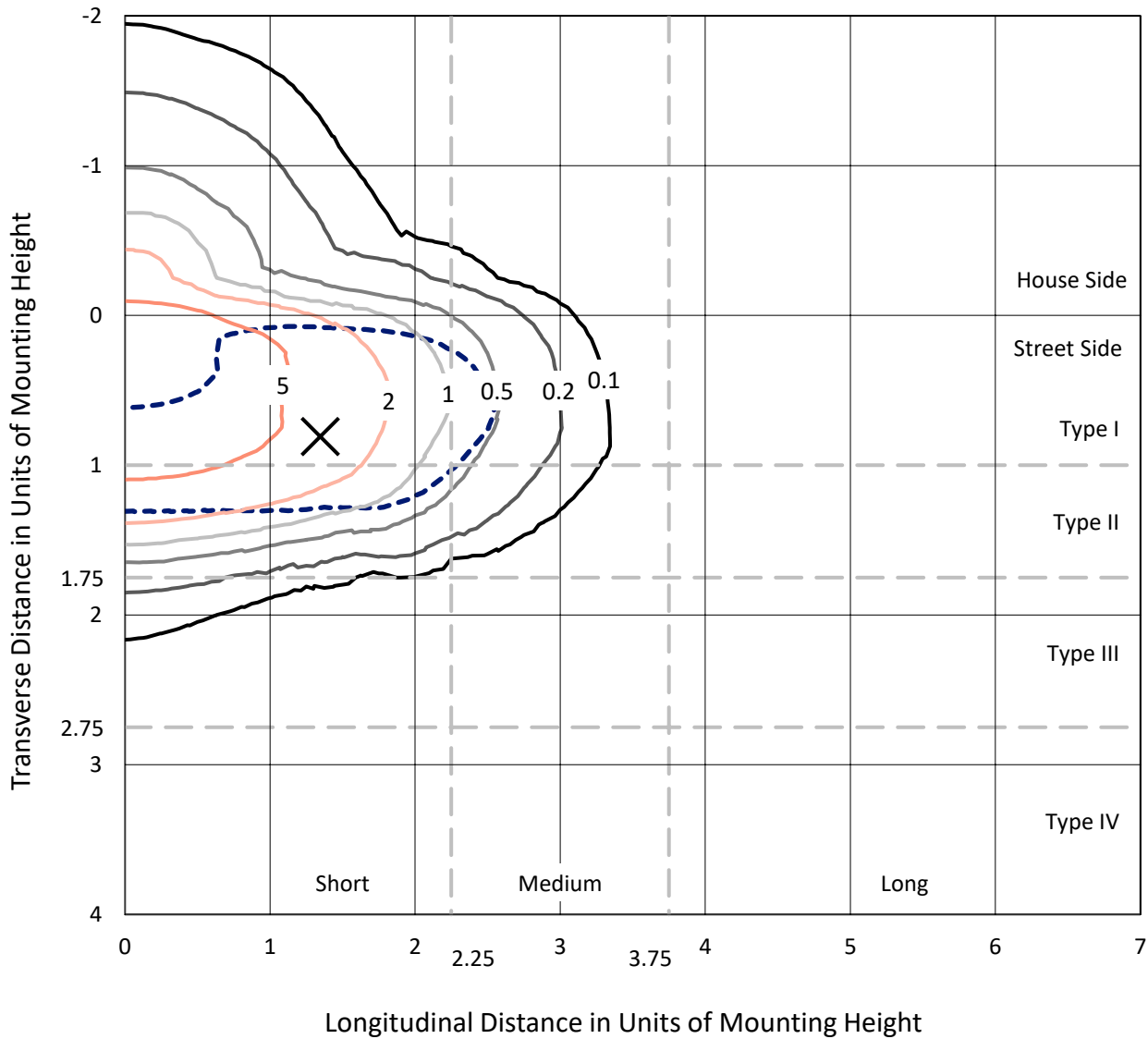
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

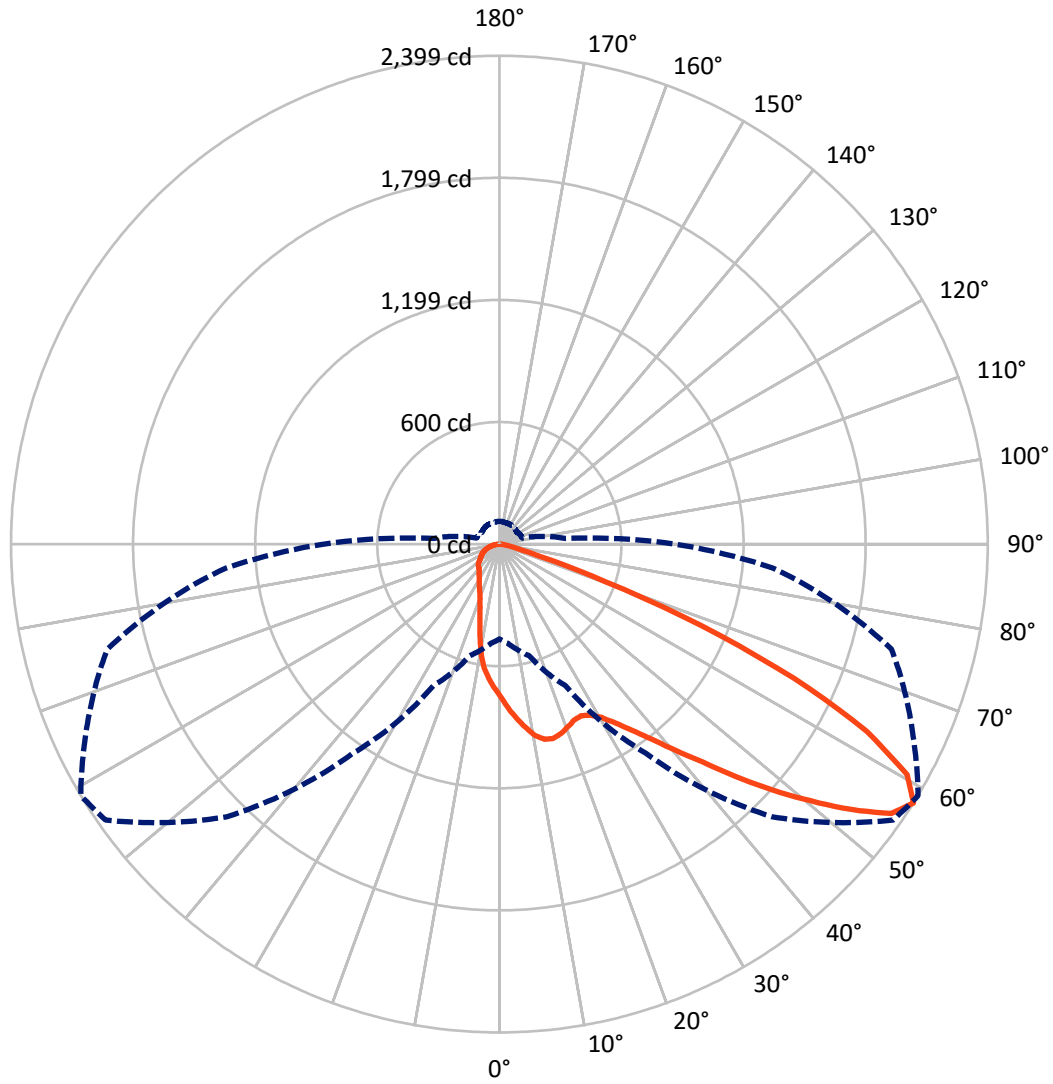
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.7	0.0	473.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2578.5	0.0	2578.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	3052.2	0.0	3052.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	2.3
10°-20°	176.3	5.8
20°-30°	285.8	9.4
30°-40°	459.7	15.1
40°-50°	713.9	23.4
50°-60°	768.9	25.2
60°-70°	446.3	14.6
70°-80°	116.5	3.8
80°-90°	15.3	0.5
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°	3052.2	100.0
0°-180°	3052.2	100.0

Coefficient of Utilization



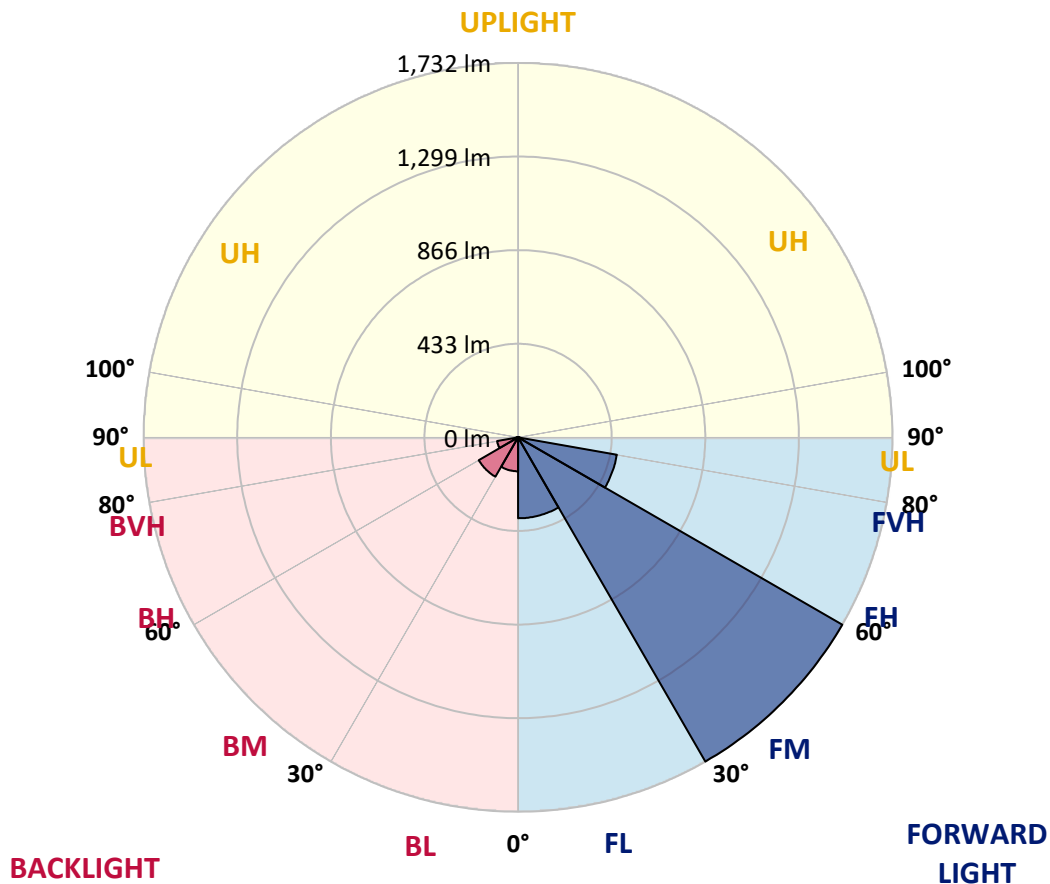
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.5	12.3			
FM (30°-60°)	1732.5	56.8			
FH (60°-80°)	464.2	15.2			G0/660
FVH (80°-90°)	7.3	0.2			G0/10
BL (0°-30°)	157.2	5.1	B1/500		
BM (30°-60°)	210.0	6.9	B0/220		
BH (60°-80°)	98.5	3.2	B0/110		G0/110
BVH (80°-90°)	8.0	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3
2.5°	849.8	842.7	847.7	838.9	835.2	825.5	813.1	804.7	791.8	775.0	760.4
5°	934.3	929.3	930.4	920.9	912.6	896.4	870.9	856.7	834.8	801.0	769.7
7.5°	931.7	937.5	940.7	948.9	951.2	949.7	926.7	907.0	882.9	832.2	784.9
10°	835.2	846.2	856.0	884.0	917.9	960.9	966.3	954.5	930.2	871.9	803.2
12.5°	730.1	738.5	747.3	780.8	832.8	918.8	977.0	984.3	974.7	911.3	823.8
15°	678.6	682.4	690.8	712.9	754.4	849.8	958.3	990.3	1007.7	953.0	847.0
17.5°	676.4	678.1	682.2	694.0	722.8	796.5	924.6	978.3	1033.7	997.0	874.1
20°	720.9	716.4	713.8	713.6	727.8	778.7	891.9	959.0	1046.0	1042.1	903.1
22.5°	782.6	784.1	778.5	764.7	763.0	791.4	875.6	939.4	1049.6	1082.1	930.0
25°	870.0	877.5	861.0	834.8	821.9	828.1	885.7	933.4	1049.2	1115.4	946.7
27.5°	972.1	977.9	961.1	926.7	900.1	885.1	915.8	951.2	1052.9	1144.2	956.8
30°	1088.3	1090.3	1067.3	1031.2	992.3	960.0	965.8	988.0	1071.6	1182.0	968.6
32.5°	1230.3	1238.5	1203.7	1146.5	1092.2	1050.9	1033.1	1047.3	1112.0	1226.7	986.9
35°	1410.6	1413.4	1369.2	1287.3	1210.4	1153.2	1115.8	1123.3	1173.4	1289.2	1014.4
37.5°	1580.6	1583.4	1536.3	1460.3	1350.2	1272.0	1217.9	1214.4	1252.1	1377.5	1059.3
40°	1688.5	1696.4	1675.3	1627.6	1522.6	1417.1	1343.6	1331.8	1355.2	1485.6	1121.8
42.5°	1746.5	1749.9	1749.5	1755.7	1693.2	1588.3	1485.4	1461.8	1477.5	1602.3	1185.0
45°	1746.9	1755.5	1778.5	1838.4	1841.2	1775.9	1664.6	1627.6	1613.2	1719.8	1251.0
47.5°	1668.7	1677.9	1741.1	1859.1	1946.1	1960.9	1879.3	1805.1	1744.5	1821.0	1305.1
50°	1431.9	1455.1	1575.4	1784.1	1966.7	2109.2	2084.0	1983.5	1861.2	1899.2	1339.1
52.5°	1226.3	1225.4	1299.5	1572.2	1880.5	2174.5	2282.1	2167.0	1976.6	1948.9	1347.7
55°	897.9	902.9	978.7	1202.4	1650.6	2111.3	2391.1	2335.9	2109.0	1975.3	1344.2
57.5°	465.6	490.1	567.9	767.3	1254.2	1893.9	2362.1	2398.8	2243.5	1994.0	1348.7
60°	235.3	230.6	258.5	366.4	726.7	1479.2	2183.3	2300.4	2267.7	2008.6	1351.5
62.5°	157.1	155.8	148.0	169.7	297.0	876.0	1861.2	2025.4	2099.1	1974.2	1315.9
65°	136.0	133.4	119.3	118.4	144.2	363.3	1364.2	1592.2	1734.9	1821.5	1230.6
67.5°	122.5	118.6	104.2	97.1	103.6	159.6	768.8	1067.9	1281.1	1540.4	1043.6
70°	109.4	107.4	93.0	82.7	82.1	97.3	283.2	551.1	783.8	1050.9	763.0
72.5°	98.0	94.5	82.3	72.4	67.5	69.0	122.9	212.3	405.7	655.6	456.4
75°	84.9	82.3	71.6	61.7	55.7	50.5	75.0	98.2	185.0	311.6	215.5
77.5°	65.5	63.8	56.5	49.0	45.6	37.6	45.6	61.9	85.5	131.3	112.2
80°	38.0	39.1	42.1	38.2	33.5	26.9	29.7	35.7	51.4	71.1	63.6
82.5°	19.1	20.4	27.3	22.1	20.0	15.7	17.6	21.1	26.9	39.3	24.9
85°	1.5	1.5	4.9	5.6	6.9	5.6	7.1	8.6	12.2	15.7	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	1.9	3.7	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3
2.5°	750.5	739.6	726.5	715.7	699.2	690.4	679.2	665.5	659.9	657.3	655.8
5°	752.0	732.7	704.8	679.0	650.4	627.9	602.7	576.5	561.5	557.8	555.2
7.5°	757.6	730.6	686.1	643.5	590.5	541.3	493.3	445.9	421.6	412.3	411.5
10°	765.4	729.7	667.2	596.5	506.9	429.1	373.0	335.8	320.2	315.0	313.3
12.5°	775.0	729.1	642.2	531.2	410.4	336.9	304.9	298.9	301.0	300.6	300.6
15°	787.3	729.9	612.2	457.2	332.0	292.4	293.1	300.2	306.8	307.9	307.9
17.5°	800.6	729.1	568.5	383.1	284.9	281.9	291.8	301.7	307.7	308.6	308.6
20°	815.0	725.0	513.5	313.3	264.3	275.2	286.0	293.7	297.4	298.2	298.2
22.5°	823.6	713.4	453.8	265.2	251.2	264.7	271.8	279.8	280.2	273.3	273.1
25°	822.3	691.7	385.7	234.2	237.2	249.0	258.1	252.5	245.6	241.7	241.1
27.5°	814.1	659.0	316.3	210.8	220.7	234.0	231.2	226.5	224.8	220.5	220.0
30°	803.8	618.8	254.0	192.5	203.5	215.7	211.4	211.0	209.3	204.6	204.6
32.5°	793.9	577.4	206.9	179.0	192.5	193.4	199.4	199.8	199.0	190.8	189.9
35°	791.2	535.9	175.1	168.2	181.8	181.4	189.9	189.7	174.9	163.5	163.3
37.5°	799.5	493.8	156.2	159.4	167.0	172.5	179.4	167.0	162.0	155.1	154.7
40°	817.4	454.9	146.5	154.3	157.5	165.7	154.9	155.8	154.5	149.3	148.7
42.5°	841.0	421.8	141.2	152.6	152.1	154.3	142.5	145.9	147.8	144.0	143.3
45°	863.8	393.0	138.4	146.1	148.3	135.8	133.4	136.7	139.7	138.2	137.5
47.5°	880.5	368.1	136.9	137.3	143.3	129.6	125.7	127.2	130.9	131.5	131.3
50°	885.7	346.8	135.2	130.0	128.7	123.3	120.3	119.9	124.2	127.2	127.6
52.5°	875.8	327.9	130.6	123.6	117.3	118.2	117.1	115.0	119.3	123.3	123.8
55°	861.2	317.1	123.6	117.3	110.0	113.5	113.9	111.9	114.7	117.5	117.5
57.5°	862.3	323.4	116.7	111.5	103.6	108.1	110.4	109.6	109.6	111.7	111.9
60°	869.4	332.4	112.2	104.2	97.1	101.8	107.2	106.4	104.4	107.2	107.2
62.5°	849.0	320.4	109.2	97.1	90.2	95.8	102.3	101.8	99.7	104.2	104.6
65°	788.8	288.1	105.7	88.3	83.4	89.8	95.4	96.9	95.0	101.0	102.1
67.5°	661.2	242.4	99.1	79.9	76.5	82.5	87.9	90.0	88.5	95.6	96.5
70°	492.9	196.2	88.5	70.7	68.1	73.5	78.4	79.3	79.5	87.9	88.7
72.5°	314.4	152.6	74.6	60.4	58.4	62.5	66.2	69.6	71.1	79.1	78.9
75°	175.3	113.5	59.9	51.1	47.7	50.9	55.2	59.3	63.6	75.2	76.5
77.5°	101.0	79.7	47.5	41.0	37.0	40.4	44.0	49.8	62.7	72.8	71.6
80°	56.9	51.8	35.9	30.1	27.5	30.1	32.9	43.8	49.4	53.7	54.4
82.5°	26.6	29.0	24.5	18.5	18.5	20.2	22.8	33.9	37.4	30.5	26.6
85°	9.7	13.1	12.0	9.5	8.4	8.2	14.2	19.3	12.0	10.7	9.2
87.5°	2.6	3.7	3.4	2.4	1.3	1.1	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)