

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: P450829

Luminaire Tested: **GALN-SA1C-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5900 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 57
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

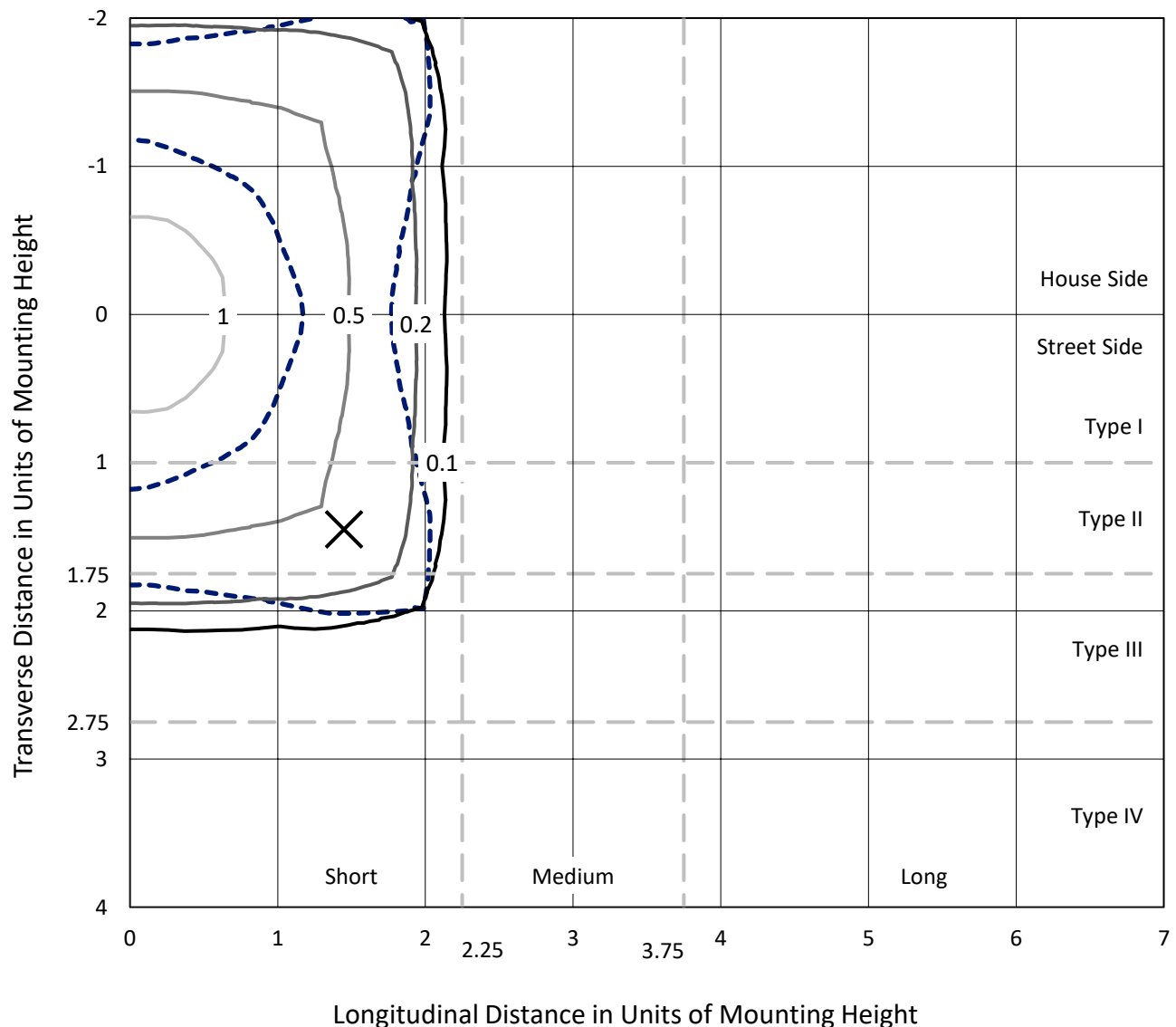


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

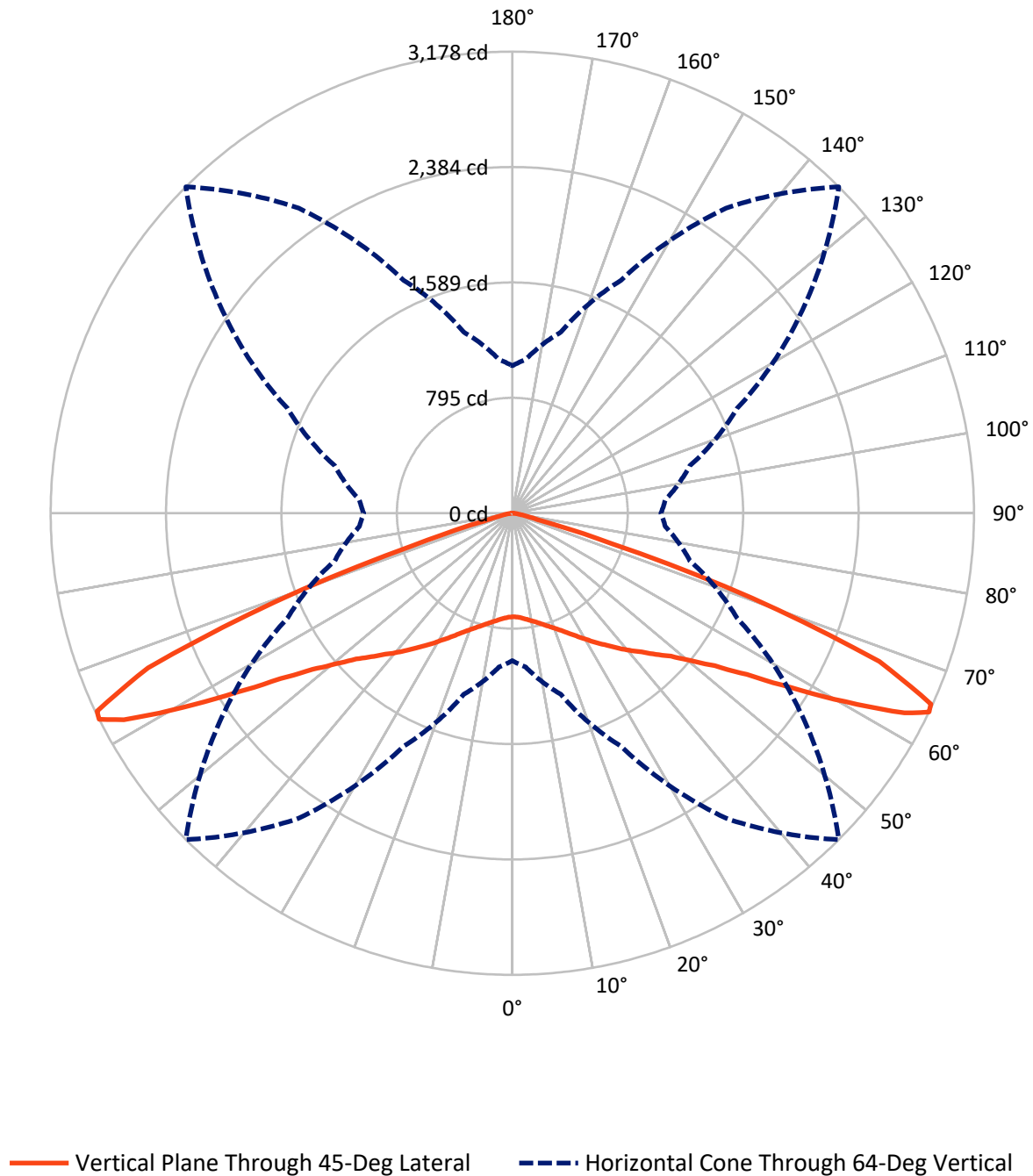


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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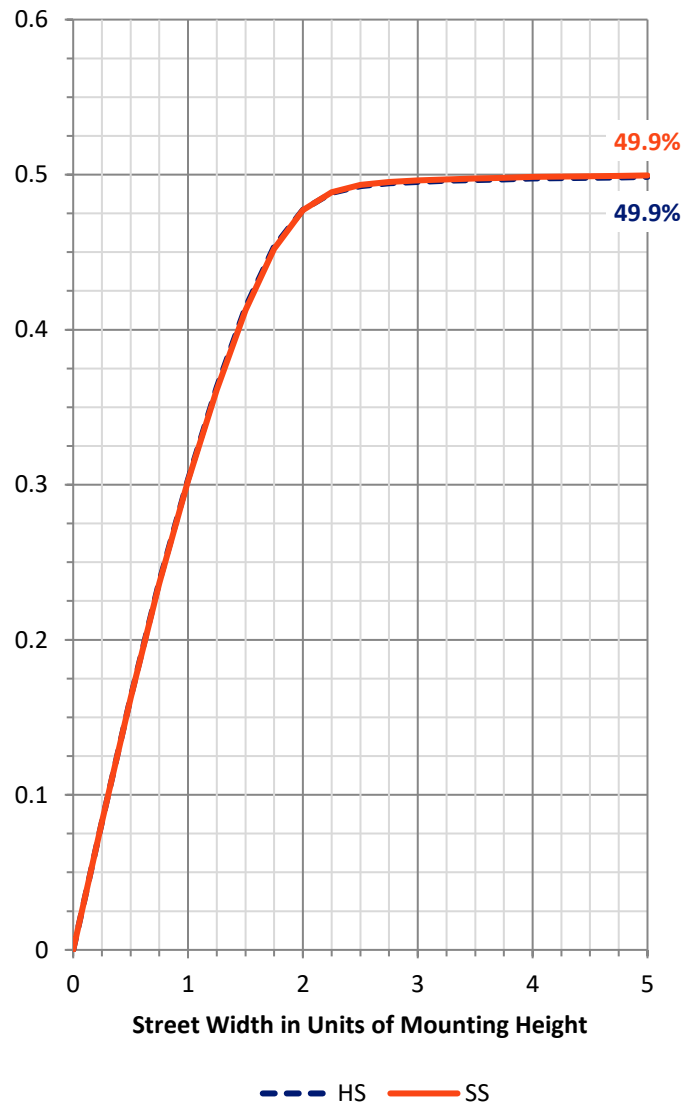
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2950.0	0.0	2950.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2950.0	0.0	2950.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5900.0	0.0	5900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.2
10°-20°	226.0	3.8
20°-30°	427.0	7.2
30°-40°	707.2	12.0
40°-50°	1104.1	18.7
50°-60°	1706.9	28.9
60°-70°	1471.9	24.9
70°-80°	166.8	2.8
80°-90°	20.0	0.3
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°	5900.0	100.0
0°-180°	5900.0	100.0

Coefficient of Utilization



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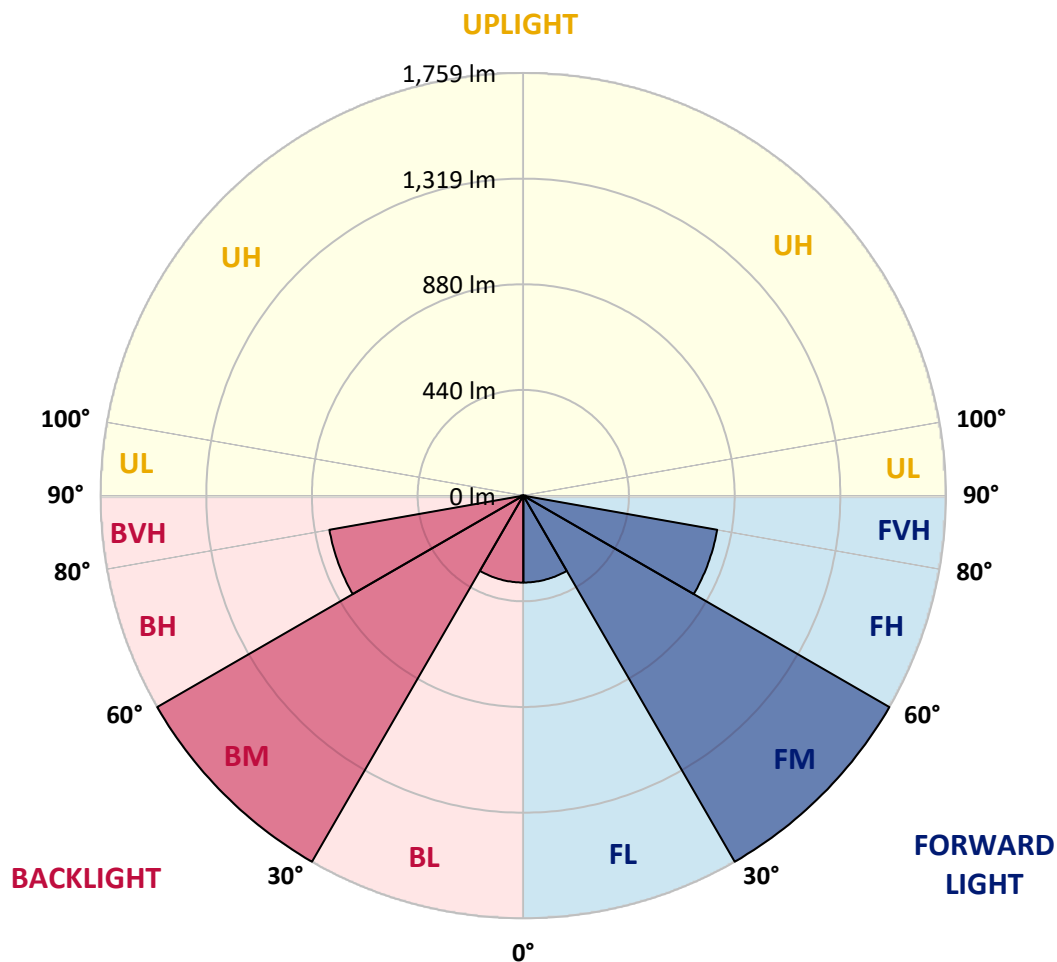
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.5	6.1			
FM	(30°-60°)	1759.1	29.8			
FH	(60°-80°)	819.3	13.9			G1/1800
FVH	(80°-90°)	10.0	0.2			G0/10
BL	(0°-30°)	361.5	6.1	B1/500		
BM	(30°-60°)	1759.1	29.8	B2/2500		
BH	(60°-80°)	819.3	13.9	B2/1000		G1/1800
BVH	(80°-90°)	10.0	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	713.1	713.1	713.1	713.1	713.1	713.1	713.1	713.1	713.1	713.1	713.1
2.5°	715.9	717.5	716.2	715.9	715.6	715.6	715.6	715.9	717.2	718.1	717.5
5°	725.0	726.2	725.6	725.3	725.0	725.3	724.7	724.4	725.3	725.3	725.0
7.5°	736.2	737.8	737.2	737.8	738.1	738.4	736.9	735.6	735.3	736.2	735.6
10°	751.6	752.8	753.1	753.4	754.1	753.7	751.9	749.7	749.4	749.1	748.7
12.5°	768.7	769.7	770.0	771.2	772.2	772.5	770.3	768.4	765.3	765.9	764.7
15°	788.1	790.0	789.7	791.6	794.1	794.7	792.5	789.4	786.6	785.0	784.1
17.5°	811.9	813.1	812.5	814.4	817.5	819.1	817.2	813.1	810.3	806.9	805.0
20°	840.0	842.2	842.8	842.8	845.6	847.2	844.4	843.1	838.7	836.2	834.7
22.5°	871.9	872.8	874.7	876.5	879.4	878.7	877.8	875.9	871.9	869.7	867.2
25°	907.8	908.7	913.4	917.5	918.4	917.8	916.5	915.6	911.9	906.9	905.0
27.5°	949.7	951.5	957.8	961.5	961.5	961.9	959.4	962.5	954.4	948.4	947.8
30°	1002.2	1003.4	1008.7	1012.5	1010.6	1009.0	1008.4	1011.5	1002.8	992.2	989.7
32.5°	1054.0	1058.4	1063.1	1071.2	1064.7	1061.9	1061.2	1063.4	1053.4	1041.5	1038.1
35°	1109.7	1112.8	1121.5	1128.4	1122.5	1115.9	1118.7	1125.6	1113.7	1097.8	1097.2
37.5°	1171.2	1174.0	1185.3	1192.5	1188.1	1176.9	1181.5	1189.7	1177.8	1158.1	1154.0
40°	1235.3	1241.2	1255.3	1262.8	1255.6	1240.6	1249.4	1258.1	1247.5	1224.7	1215.6
42.5°	1307.2	1316.5	1336.9	1340.6	1326.9	1306.5	1321.9	1335.9	1328.4	1302.2	1298.7
45°	1391.2	1396.9	1421.9	1430.0	1410.9	1385.6	1404.7	1430.3	1424.7	1394.4	1387.8
47.5°	1485.3	1490.6	1516.5	1528.7	1504.7	1470.6	1505.0	1538.4	1535.0	1502.5	1499.4
50°	1596.5	1597.8	1633.7	1647.5	1623.4	1594.0	1624.7	1666.2	1652.5	1610.9	1610.3
52.5°	1718.4	1720.0	1765.3	1791.8	1778.4	1745.3	1781.5	1806.8	1771.8	1717.5	1713.4
55°	1824.0	1831.8	1893.7	1964.3	1982.8	1958.7	1969.7	1957.8	1871.5	1795.3	1783.4
57.5°	1867.2	1882.5	1976.5	2108.4	2228.4	2264.0	2179.7	2066.5	1911.2	1803.4	1791.8
60°	1761.8	1778.4	1924.3	2174.7	2480.9	2635.6	2398.4	2085.0	1820.9	1669.3	1651.2
62.5°	1410.9	1415.6	1630.3	2018.7	2628.1	3028.7	2490.6	1927.8	1558.1	1352.2	1345.0
64°	1015.3	1063.4	1290.9	1770.0	2563.7	3178.4	2437.5	1707.5	1265.6	1057.2	1023.4
65°	759.4	772.5	1040.6	1511.5	2450.3	3167.1	2334.3	1496.9	1048.1	809.1	771.6
67.5°	286.9	288.4	384.1	753.4	1744.3	2725.0	1781.5	814.4	441.6	319.4	307.8
70°	119.1	121.2	140.9	253.4	749.7	1749.7	859.0	293.7	161.6	130.9	129.1
72.5°	87.2	88.4	94.4	112.5	230.6	718.4	282.5	124.7	94.7	84.7	83.7
75°	68.4	69.1	73.4	82.8	107.5	199.1	117.5	85.6	72.2	65.0	64.4
77.5°	52.2	53.7	56.9	63.1	72.2	94.4	77.8	64.1	55.6	49.7	48.7
80°	35.9	37.8	43.7	46.2	48.4	61.2	53.1	48.4	43.4	36.2	34.1
82.5°	22.2	23.4	29.4	31.6	30.6	34.4	34.1	34.7	30.9	22.5	20.9
85°	11.6	12.2	15.9	16.6	15.3	14.1	17.5	20.3	19.1	12.8	12.5
87.5°	2.5	2.8	3.4	3.1	3.4	3.4	4.4	6.6	6.9	4.4	4.1
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)