

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: P451076

Luminaire Tested: **GALN-SA1D-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451076
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-SA1D-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6209 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 65
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

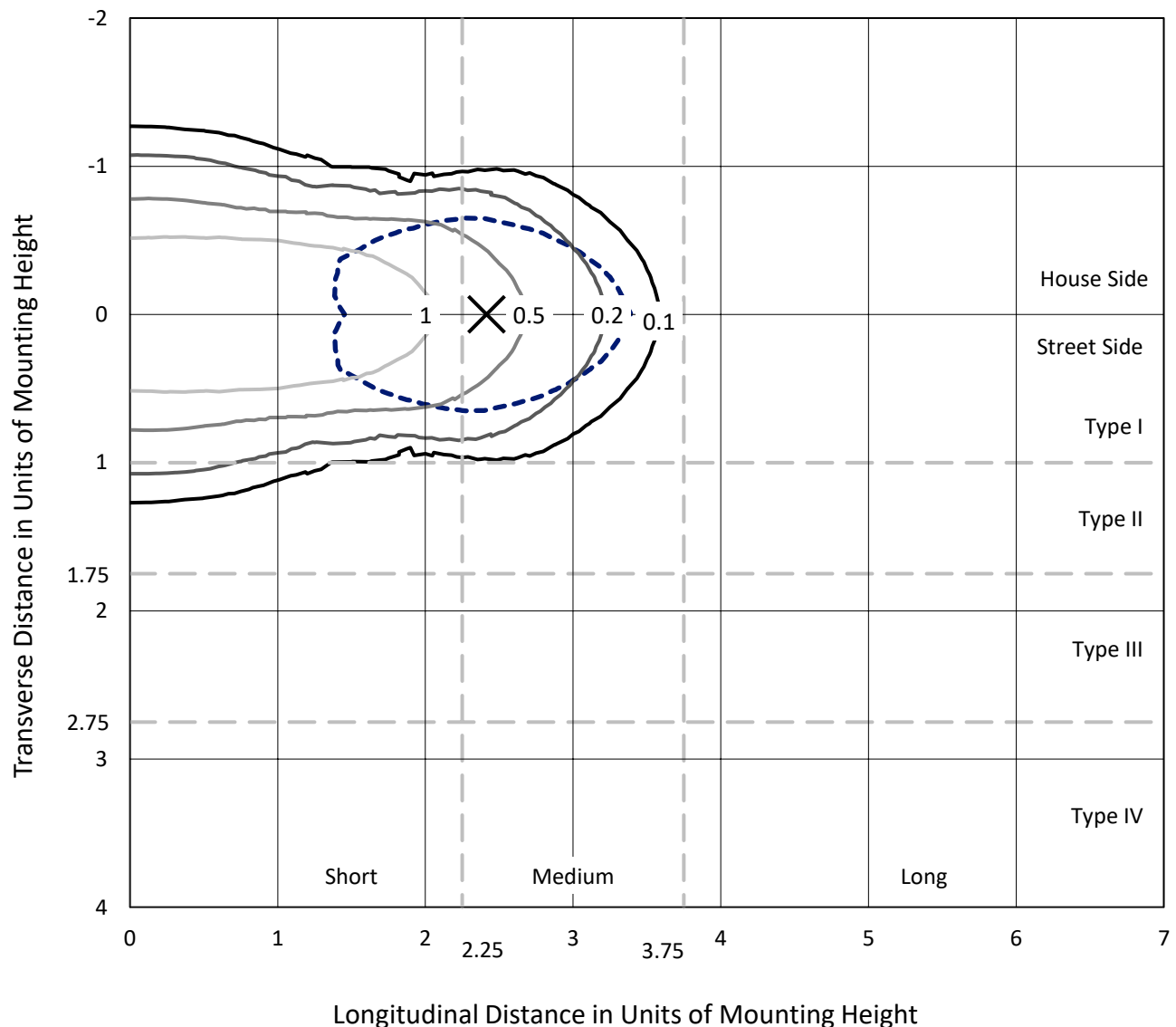


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

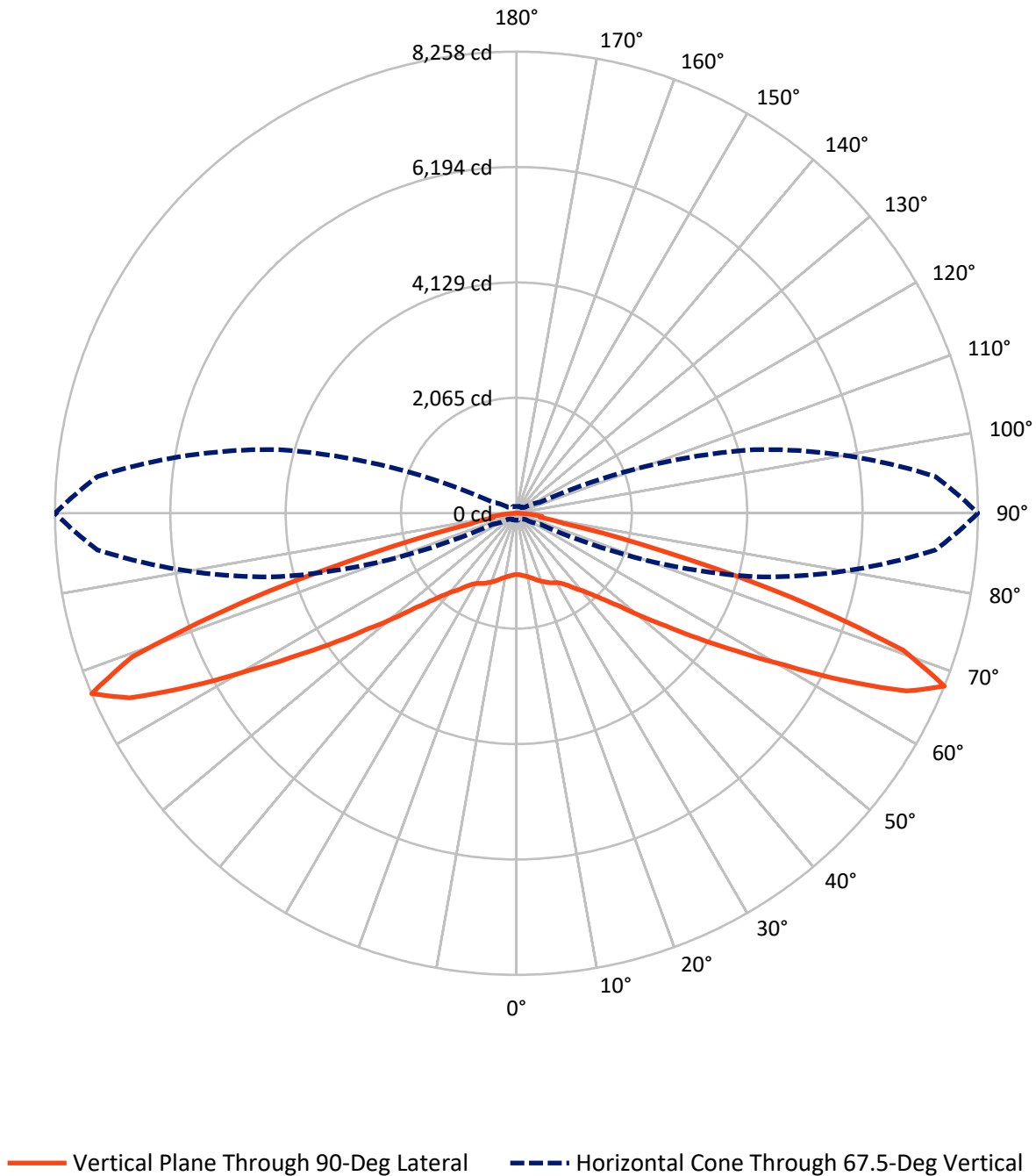


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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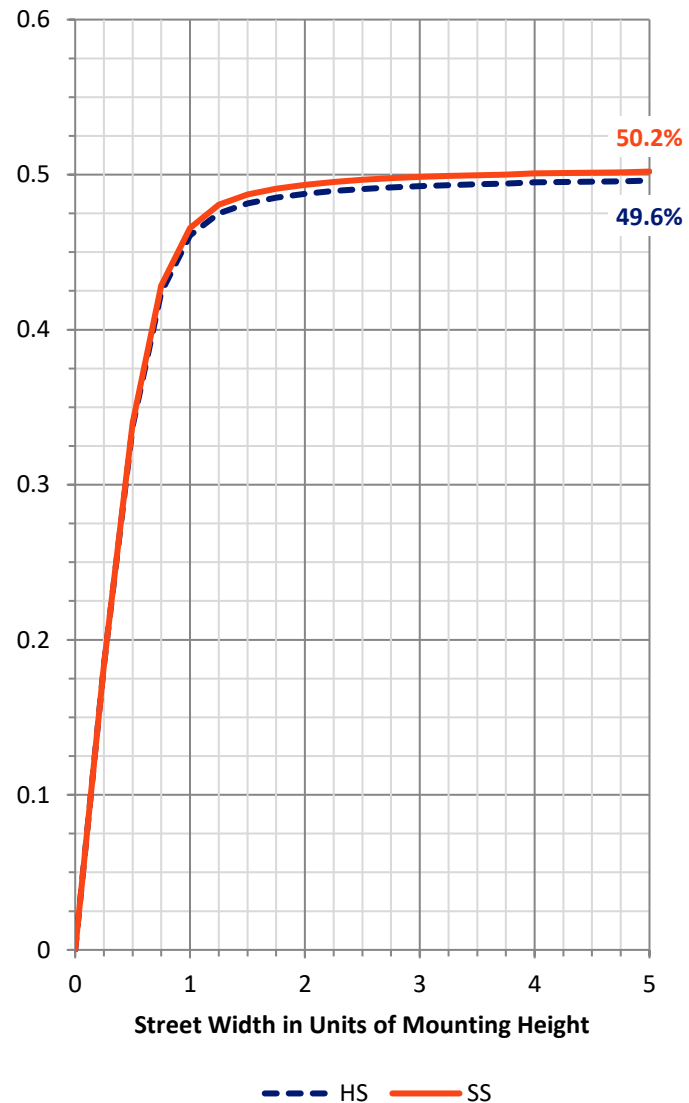
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3104.5	0.0	3104.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3104.5	0.0	3104.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6209.0	0.0	6209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	1.8
10°-20°	350.6	5.6
20°-30°	586.9	9.5
30°-40°	795.0	12.8
40°-50°	1007.0	16.2
50°-60°	1258.1	20.3
60°-70°	1478.8	23.8
70°-80°	565.7	9.1
80°-90°	57.3	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°	6209.0	100.0
0°-180°	6209.0	100.0

Coefficient of Utilization



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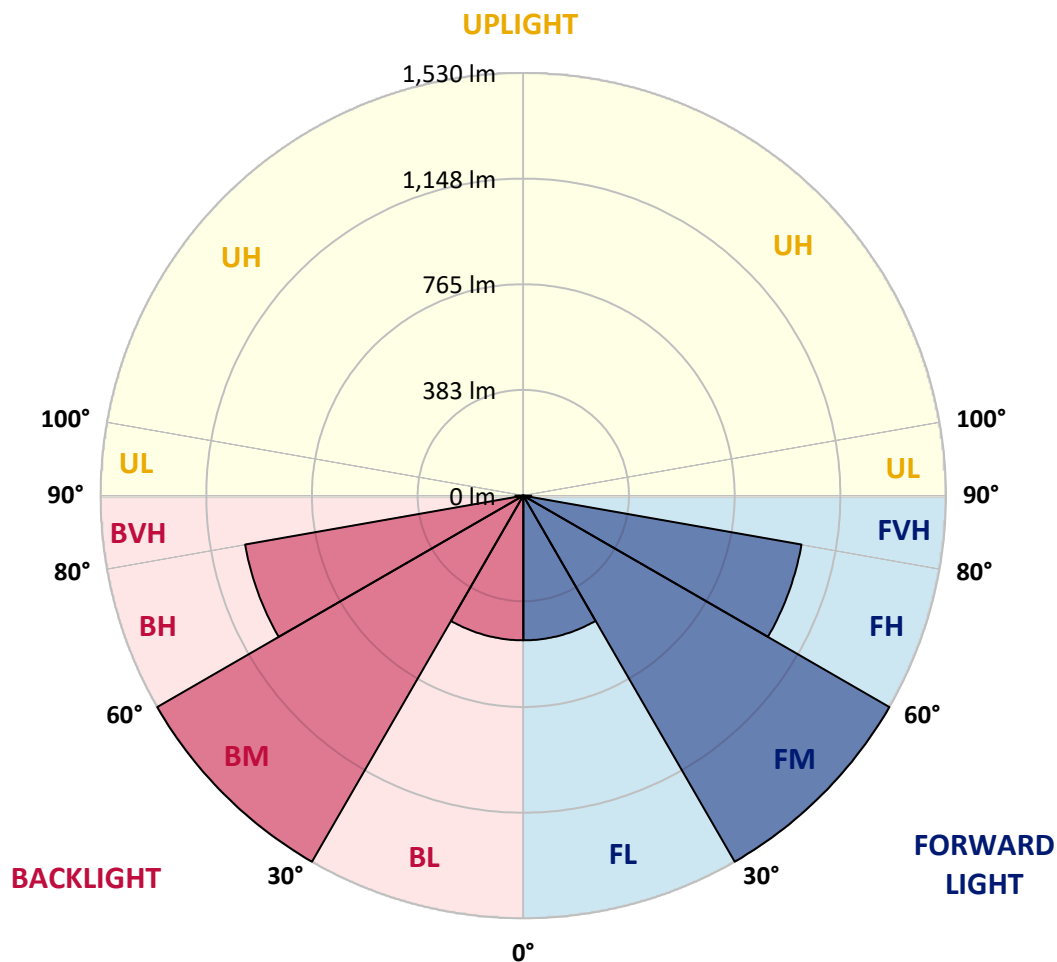
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.5	8.4			
FM	(30°-60°)	1530.1	24.6			
FH	(60°-80°)	1022.2	16.5			G1/1800
FVH	(80°-90°)	28.7	0.5			G1/100
BL	(0°-30°)	523.5	8.4	B2/1000		
BM	(30°-60°)	1530.1	24.6	B2/2500		
BH	(60°-80°)	1022.2	16.5	B3/2500		G3/2500
BVH	(80°-90°)	28.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1099.2	1099.2	1099.2	1099.2	1099.2	1099.2	1099.2	1099.2	1099.2	1099.2	1099.2
2.5°	1113.3	1112.6	1112.9	1112.6	1113.6	1112.9	1108.8	1105.4	1102.6	1103.0	1101.9
5°	1137.0	1137.4	1137.7	1136.0	1138.4	1137.0	1130.5	1125.0	1119.5	1117.4	1116.7
7.5°	1156.6	1158.3	1159.4	1161.1	1165.2	1165.2	1161.8	1153.9	1141.8	1134.9	1134.6
10°	1176.2	1177.6	1180.7	1186.2	1193.0	1199.6	1198.2	1187.5	1172.1	1160.4	1157.6
12.5°	1183.1	1184.8	1195.1	1210.9	1226.4	1239.1	1239.1	1230.5	1210.6	1192.7	1187.5
15°	1159.0	1162.1	1180.7	1214.4	1254.9	1282.8	1289.0	1276.9	1255.6	1228.1	1221.9
17.5°	1111.2	1118.8	1145.9	1195.8	1263.2	1320.9	1338.8	1333.0	1305.5	1270.4	1263.2
20°	1060.0	1068.2	1097.1	1163.1	1256.3	1343.3	1395.2	1396.6	1362.6	1311.7	1301.0
22.5°	1003.6	1009.8	1046.9	1124.3	1235.7	1348.5	1443.7	1467.4	1421.3	1352.9	1337.8
25°	940.3	947.2	986.1	1069.6	1196.8	1342.6	1488.0	1540.3	1482.9	1396.9	1377.7
27.5°	879.8	882.6	924.2	1009.1	1145.6	1327.5	1520.7	1607.3	1551.0	1433.4	1409.0
30°	821.7	828.3	865.0	948.9	1086.8	1297.9	1548.9	1683.7	1624.2	1471.5	1440.3
32.5°	760.2	768.1	808.0	892.9	1028.0	1253.6	1566.1	1767.2	1726.3	1533.4	1500.1
35°	701.0	706.2	746.4	828.9	970.6	1202.0	1569.2	1861.4	1858.0	1627.3	1582.9
37.5°	640.5	648.1	688.7	767.7	909.7	1147.3	1553.7	1961.5	2016.8	1757.6	1709.8
40°	582.4	589.0	628.8	708.6	840.6	1080.6	1516.9	2052.9	2202.2	1891.7	1824.0
42.5°	519.2	520.9	564.5	645.7	772.9	1003.3	1464.0	2134.4	2408.8	2071.5	1987.3
45°	447.3	451.8	492.3	572.1	695.2	916.6	1392.1	2201.8	2670.8	2320.8	2205.9
47.5°	375.4	379.2	416.4	495.1	610.3	817.3	1281.4	2260.9	2939.6	2637.4	2486.8
50°	305.3	307.4	337.6	407.4	514.7	712.7	1144.2	2279.9	3243.6	3085.8	2893.6
52.5°	241.4	244.5	267.5	322.2	412.6	589.3	996.0	2233.1	3598.4	3617.3	3346.4
55°	195.6	196.7	213.9	254.1	322.5	460.0	817.3	2102.8	3980.0	4298.4	3952.9
57.5°	168.5	169.2	178.8	201.1	248.2	346.9	634.0	1856.3	4322.8	5096.4	4652.2
60°	153.0	153.3	158.8	171.9	196.7	266.1	454.2	1508.3	4661.1	5984.5	5521.4
62.5°	143.4	143.4	147.2	154.4	166.4	204.2	329.0	1088.2	4892.9	6885.6	6592.7
65°	134.1	134.1	136.8	142.0	148.5	167.1	243.1	709.6	4887.0	7542.0	7670.2
67.5°	123.4	123.4	125.5	130.7	134.4	143.7	187.7	464.8	4389.9	7527.6	8258.2
70°	110.7	110.7	113.5	117.9	121.0	126.9	148.2	318.0	3225.0	6427.3	7344.3
72.5°	98.0	98.3	100.1	104.5	106.9	110.4	123.1	222.8	1978.3	4376.5	5135.3
75°	83.9	84.6	86.3	90.8	92.8	94.2	103.8	158.8	1000.9	2359.6	2686.6
77.5°	67.7	69.1	70.1	75.0	76.3	78.4	85.6	114.8	439.4	847.9	855.4
80°	49.5	51.2	54.3	58.8	59.8	61.2	65.3	81.5	199.1	387.1	420.5
82.5°	36.4	38.9	35.1	40.9	40.9	39.2	46.1	54.7	91.5	383.4	458.7
85°	19.9	20.3	18.2	21.0	22.3	22.0	24.4	26.8	44.4	255.8	263.7
87.5°	4.8	5.2	5.5	6.5	7.9	7.9	8.6	7.6	14.4	82.9	47.4
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)