

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: P647203

Luminaire Tested: **GALN-SA1D-835-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647203  
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-SA1D-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6396.3 lumens  
Efficiency: N/A  
Efficacy: 98.4 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

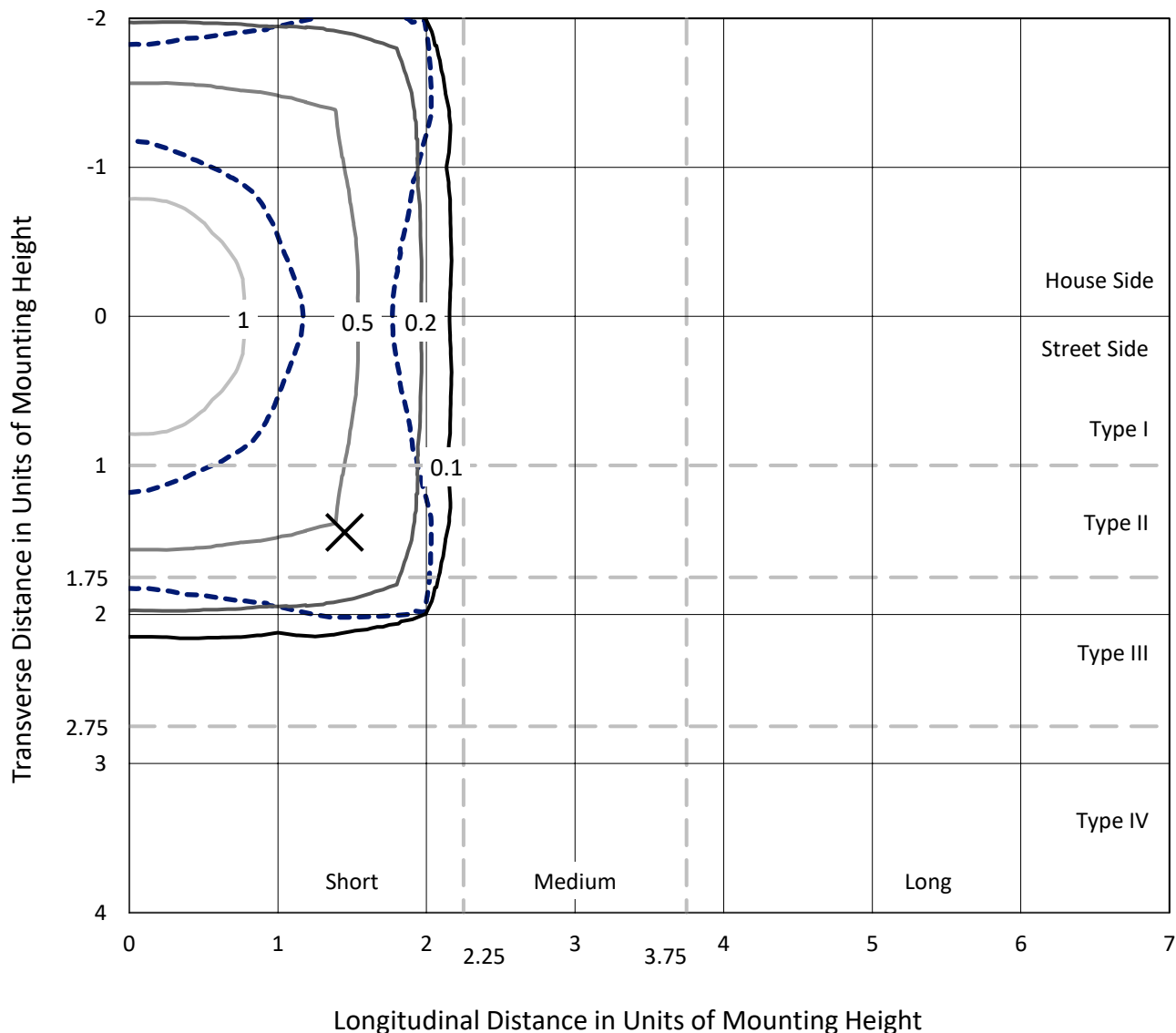
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

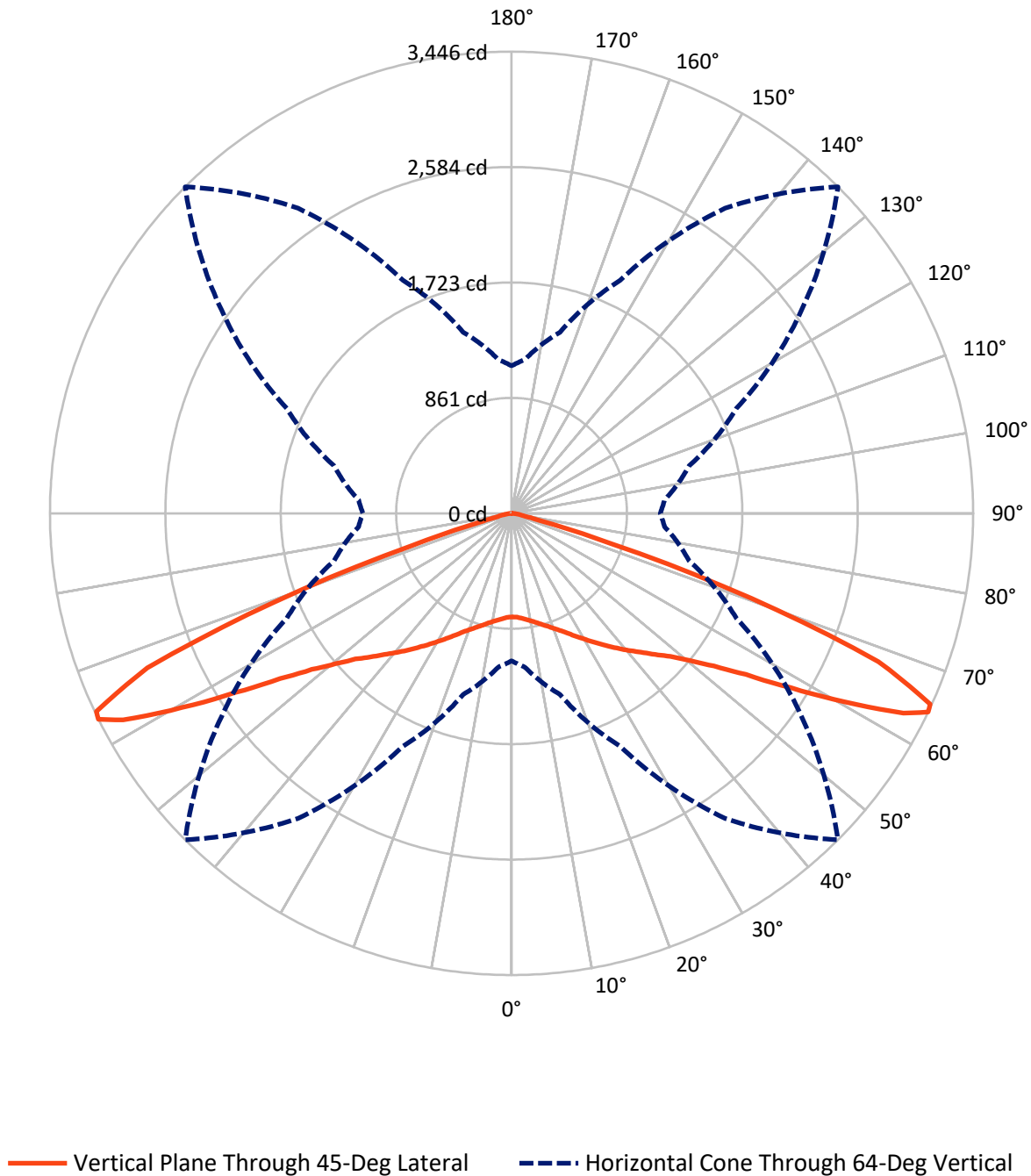
× Max cd  
 - - - 1/2 Max cd



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

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## Luminous Intensity Polar Plot



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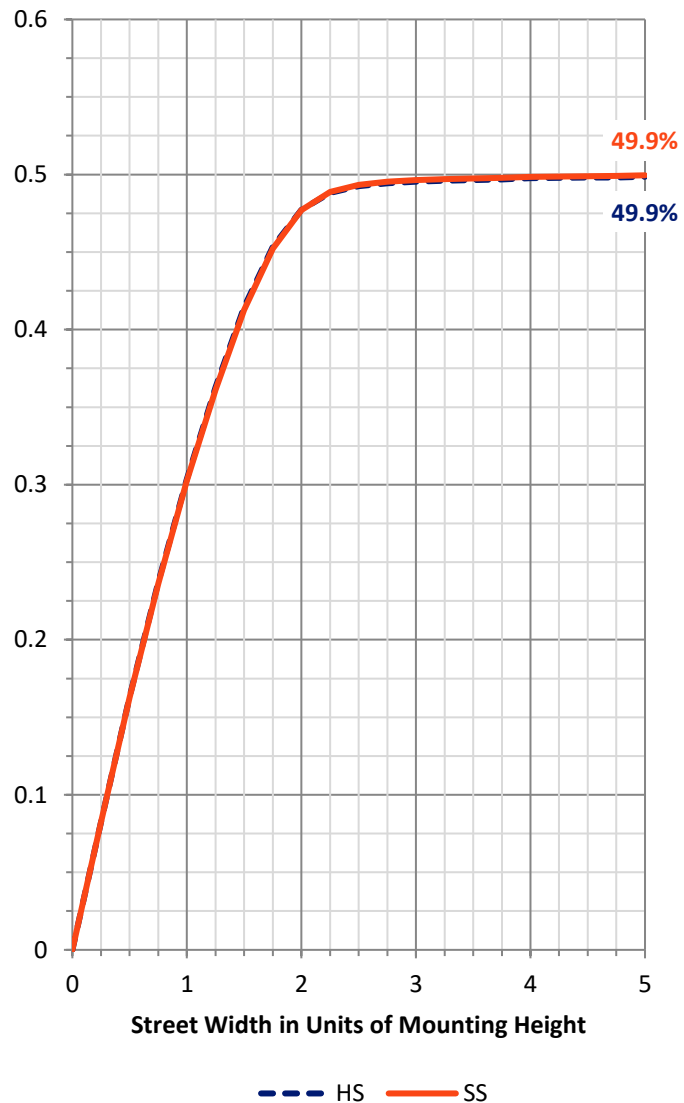
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3198.2	0.0	3198.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3198.2	0.0	3198.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6396.3	0.0	6396.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	1.2
10°-20°	245.0	3.8
20°-30°	463.0	7.2
30°-40°	766.7	12.0
40°-50°	1197.0	18.7
50°-60°	1850.5	28.9
60°-70°	1595.7	24.9
70°-80°	180.8	2.8
80°-90°	21.7	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°	6396.3	100.0
0°-180°	6396.3	100.0

**Coefficient of Utilization**



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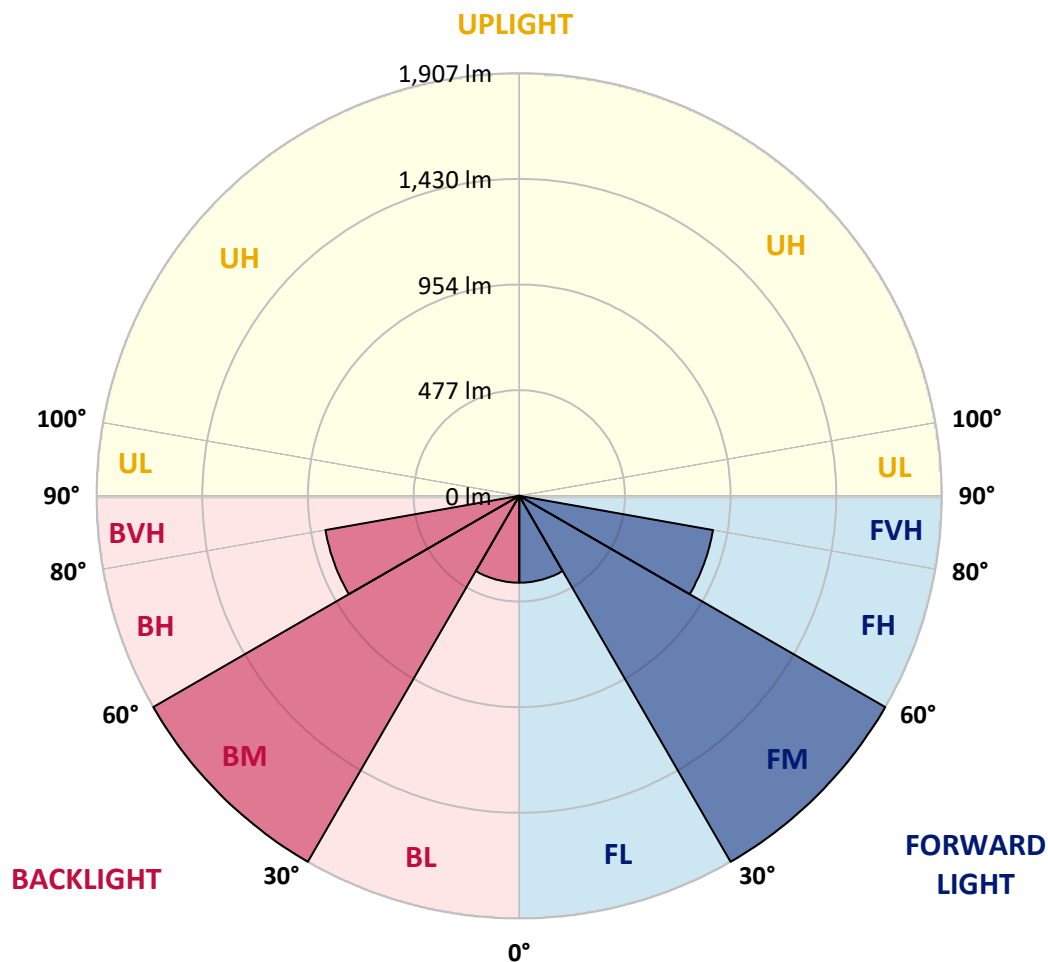
CATALOG NUMBER: GALN-SA1D-835-U-5NQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.0	6.1			
FM	(30°-60°)	1907.1	29.8			
FH	(60°-80°)	888.3	13.9			G1/1800
FVH	(80°-90°)	10.8	0.2			G1/100
BL	(0°-30°)	392.0	6.1	B1/500		
BM	(30°-60°)	1907.1	29.8	B2/2500		
BH	(60°-80°)	888.3	13.9	B2/1000		G1/1800
BVH	(80°-90°)	10.8	0.2			G1/100
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°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	776.2	777.8	776.5	776.2	775.8	775.8	775.8	776.2	777.5	778.5	777.8
5°	786.0	787.3	786.7	786.3	786.0	786.3	785.7	785.3	786.3	786.3	786.0
7.5°	798.2	799.8	799.2	799.8	800.2	800.5	798.8	797.5	797.2	798.2	797.5
10°	814.8	816.1	816.4	816.8	817.5	817.1	815.1	812.8	812.4	812.0	811.7
12.5°	833.4	834.4	834.8	836.1	837.1	837.5	835.1	833.0	829.7	830.4	829.0
15°	854.4	856.4	856.1	858.2	860.8	861.5	859.2	855.7	852.7	851.0	850.0
17.5°	880.2	881.5	880.9	882.8	886.3	887.9	885.9	881.5	878.4	874.8	872.7
20°	910.6	913.1	913.7	913.7	916.7	918.5	915.4	914.1	909.3	906.6	904.9
22.5°	945.2	946.3	948.3	950.2	953.3	952.7	951.7	949.6	945.2	942.8	940.1
25°	984.2	985.2	990.3	994.6	995.7	995.0	993.6	992.6	988.5	983.1	981.1
27.5°	1029.6	1031.6	1038.3	1042.4	1042.4	1042.8	1040.1	1043.4	1034.7	1028.2	1027.5
30°	1086.5	1087.8	1093.6	1097.7	1095.7	1093.9	1093.2	1096.7	1087.1	1075.6	1072.9
32.5°	1142.7	1147.5	1152.6	1161.3	1154.2	1151.2	1150.5	1152.9	1142.0	1129.2	1125.4
35°	1203.0	1206.4	1215.9	1223.4	1216.9	1209.8	1212.9	1220.3	1207.4	1190.2	1189.5
37.5°	1269.8	1272.8	1285.0	1292.8	1288.0	1275.8	1280.9	1289.8	1276.8	1255.5	1251.2
40°	1339.2	1345.7	1360.9	1369.0	1361.2	1345.0	1354.4	1363.9	1352.4	1327.7	1317.9
42.5°	1417.2	1427.3	1449.3	1453.4	1438.4	1416.4	1433.0	1448.3	1440.2	1411.7	1408.0
45°	1508.3	1514.4	1541.5	1550.3	1529.6	1502.2	1522.9	1550.6	1544.5	1511.7	1504.5
47.5°	1610.2	1616.0	1644.1	1657.3	1631.2	1594.3	1631.6	1667.9	1664.1	1628.9	1625.5
50°	1730.8	1732.2	1771.1	1786.1	1759.9	1728.2	1761.4	1806.4	1791.5	1746.4	1745.8
52.5°	1863.0	1864.6	1913.8	1942.6	1928.0	1892.1	1931.4	1958.8	1920.9	1862.0	1857.5
55°	1977.5	1985.9	2053.0	2129.6	2149.6	2123.5	2135.3	2122.5	2029.0	1946.3	1933.5
57.5°	2024.2	2040.8	2142.8	2285.7	2415.9	2454.5	2363.0	2240.4	2072.0	1955.2	1942.6
60°	1910.1	1928.0	2086.2	2357.6	2689.6	2857.3	2600.2	2260.4	1974.1	1809.7	1790.1
62.5°	1529.6	1534.7	1767.5	2188.6	2849.2	3283.5	2700.1	2090.0	1689.2	1465.9	1458.1
64°	1100.7	1152.9	1399.5	1918.9	2779.4	3445.7	2642.5	1851.1	1372.1	1146.1	1109.5
65°	823.2	837.5	1128.1	1638.7	2656.4	3433.5	2530.7	1622.8	1136.3	877.1	836.5
67.5°	311.0	312.7	416.4	816.8	1891.1	2954.2	1931.4	882.8	478.7	346.2	333.7
70°	129.0	131.5	152.8	274.8	812.8	1896.8	931.3	318.4	175.2	142.0	139.9
72.5°	94.5	95.8	102.3	122.0	250.0	778.9	306.2	135.1	102.7	91.8	90.8
75°	74.2	74.9	79.6	89.8	116.5	215.8	127.4	92.9	78.2	70.5	69.8
77.5°	56.6	58.3	61.6	68.4	78.2	102.3	84.3	69.5	60.3	53.9	52.9
80°	39.0	41.0	47.4	50.1	52.5	66.4	57.6	52.5	47.1	39.3	37.0
82.5°	24.0	25.4	31.9	34.2	33.2	37.3	37.0	37.6	33.5	24.4	22.7
85°	12.5	13.2	17.3	17.9	16.6	15.3	18.9	22.0	20.7	13.9	13.5
87.5°	2.7	3.1	3.8	3.4	3.8	3.8	4.8	7.1	7.4	4.8	4.4
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)