

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: P451061

Luminaire Tested: **GALN-SA1D-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451061
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-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6492 lumens
Efficiency: N/A
Efficacy: 99.9 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 (A_{in}): 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



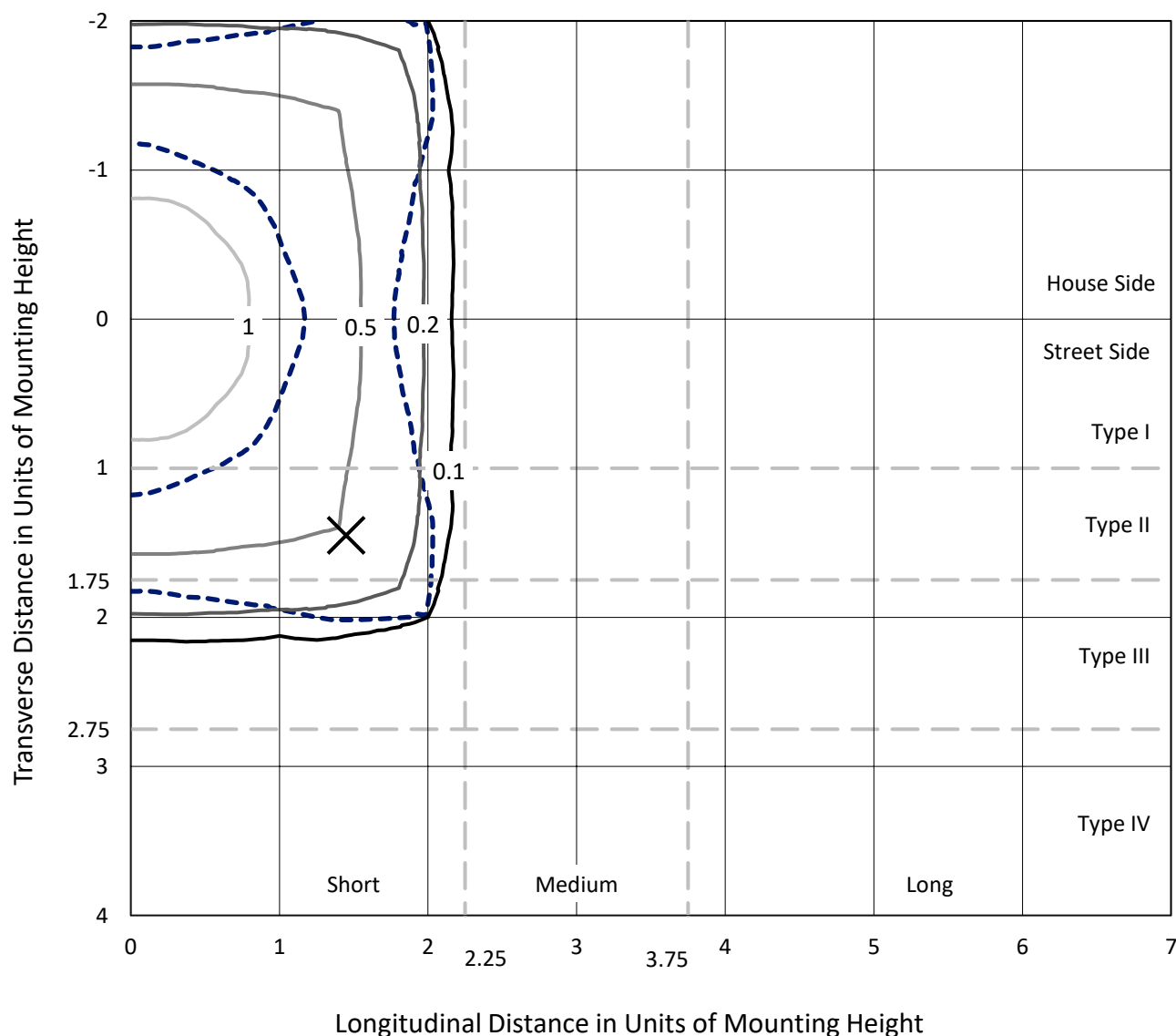
REPORT NUMBER: P451061

CATALOG NUMBER: GALN-SA1D-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

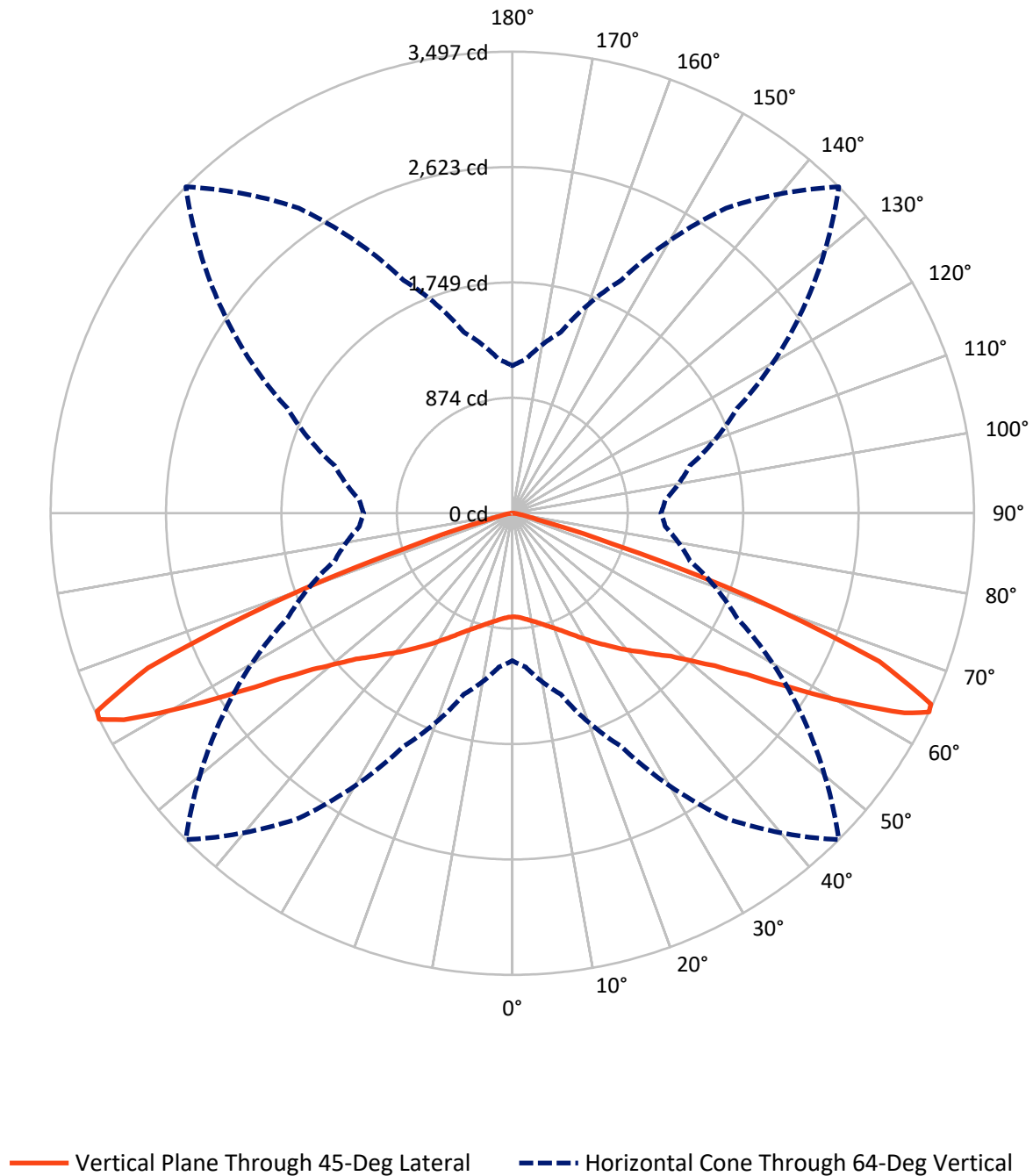


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

REPORT NUMBER: P451061

CATALOG NUMBER: GALN-SA1D-830-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P451061

CATALOG NUMBER: GALN-SA1D-830-U-5NQ

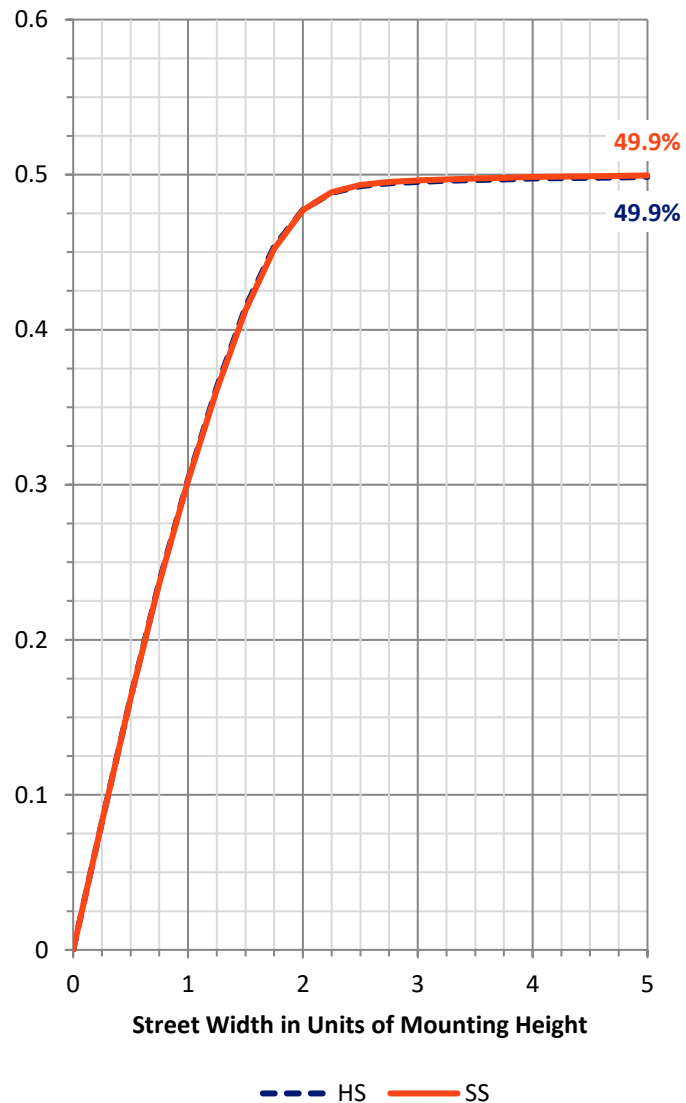
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3246.0	0.0	3246.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3246.0	0.0	3246.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6492.0	0.0	6492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.2
10°-20°	248.7	3.8
20°-30°	469.9	7.2
30°-40°	778.2	12.0
40°-50°	1214.9	18.7
50°-60°	1878.2	28.9
60°-70°	1619.5	24.9
70°-80°	183.5	2.8
80°-90°	22.0	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°	6492.0	100.0
0°-180°	6492.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451061

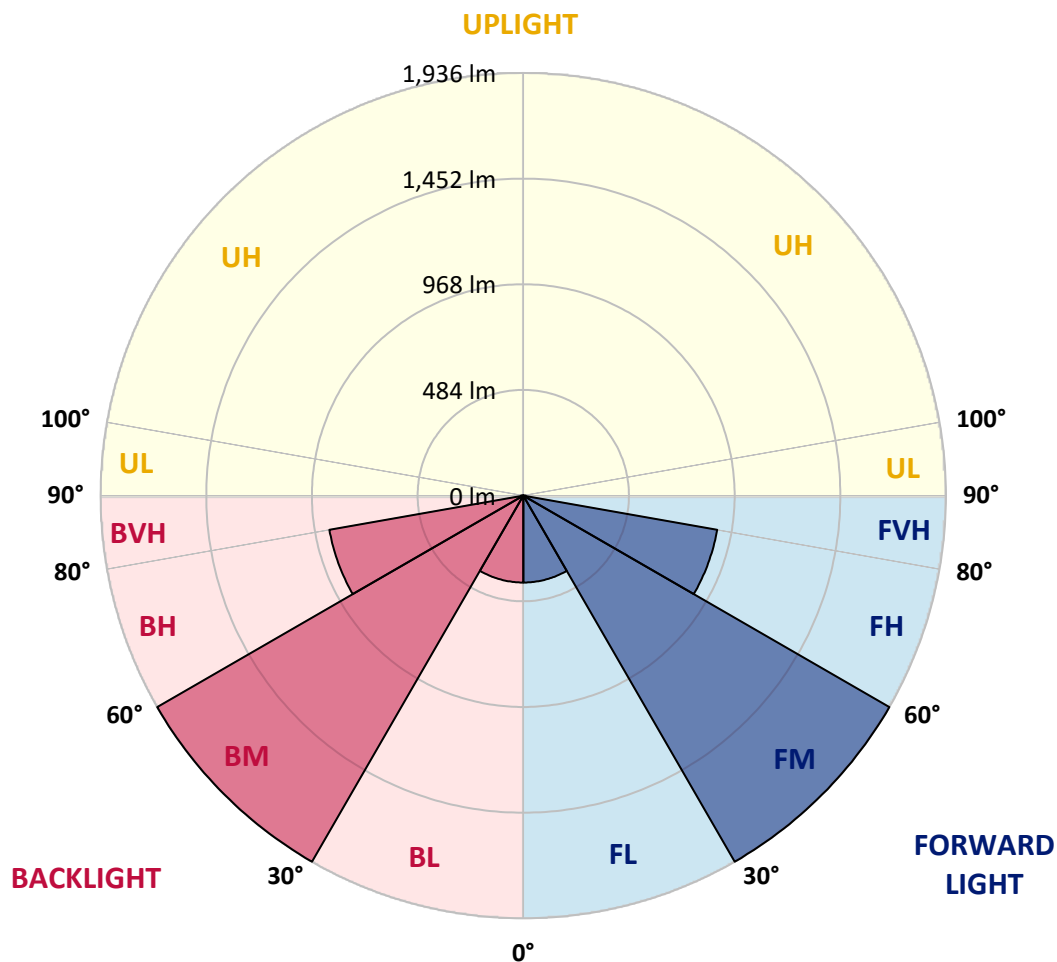
CATALOG NUMBER: GALN-SA1D-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.8	6.1			
FM	(30°-60°)	1935.6	29.8			
FH	(60°-80°)	901.5	13.9			G1/1800
FVH	(80°-90°)	11.0	0.2			G1/100
BL	(0°-30°)	397.8	6.1	B1/500		
BM	(30°-60°)	1935.6	29.8	B2/2500		
BH	(60°-80°)	901.5	13.9	B2/1000		G1/1800
BVH	(80°-90°)	11.0	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





REPORT NUMBER: P451061

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7
2.5°	787.8	789.5	788.1	787.8	787.4	787.4	787.4	787.8	789.1	790.2	789.5
5°	797.7	799.1	798.4	798.1	797.7	797.7	797.4	797.0	798.1	798.1	797.7
7.5°	810.1	811.8	811.1	811.8	812.2	812.5	810.8	809.4	809.1	810.1	809.4
10°	827.0	828.3	828.7	829.0	829.7	829.4	827.3	824.9	824.6	824.2	823.9
12.5°	845.9	846.9	847.2	848.6	849.7	850.0	847.6	845.5	842.1	842.8	841.4
15°	867.2	869.3	868.9	871.0	873.7	874.4	872.0	868.6	865.5	863.8	862.7
17.5°	893.3	894.7	894.0	896.1	899.5	901.2	899.2	894.7	891.6	887.8	885.8
20°	924.3	926.7	927.4	927.4	930.5	932.2	929.1	927.7	922.9	920.1	918.4
22.5°	959.3	960.4	962.4	964.5	967.6	966.9	965.9	963.8	959.3	956.9	954.2
25°	998.9	999.9	1005.1	1009.5	1010.6	1009.9	1008.5	1007.5	1003.4	997.9	995.8
27.5°	1045.0	1047.0	1053.9	1058.0	1058.0	1058.4	1055.6	1059.1	1050.1	1043.6	1042.9
30°	1102.7	1104.1	1110.0	1114.1	1112.0	1110.3	1109.6	1113.0	1103.4	1091.7	1089.0
32.5°	1159.8	1164.6	1169.8	1178.7	1171.5	1168.4	1167.7	1170.1	1159.1	1146.1	1142.3
35°	1221.0	1224.5	1234.1	1241.6	1235.1	1227.9	1231.0	1238.6	1225.5	1207.9	1207.3
37.5°	1288.8	1291.8	1304.2	1312.1	1307.3	1294.9	1300.1	1309.0	1296.0	1274.3	1269.8
40°	1359.2	1365.8	1381.2	1389.5	1381.6	1365.1	1374.7	1384.3	1372.7	1347.6	1337.6
42.5°	1438.3	1448.6	1471.0	1475.1	1460.0	1437.6	1454.5	1470.0	1461.7	1432.8	1429.0
45°	1530.8	1537.0	1564.5	1573.5	1552.5	1524.6	1545.6	1573.8	1567.6	1534.3	1527.0
47.5°	1634.3	1640.2	1668.7	1682.1	1655.6	1618.2	1656.0	1692.8	1689.0	1653.2	1649.8
50°	1756.7	1758.1	1797.7	1812.8	1786.3	1754.0	1787.7	1833.4	1818.3	1772.6	1771.9
52.5°	1890.8	1892.6	1942.4	1971.6	1956.9	1920.4	1960.3	1988.1	1949.6	1889.8	1885.3
55°	2007.1	2015.7	2083.7	2161.4	2181.7	2155.3	2167.3	2154.2	2059.3	1975.4	1962.4
57.5°	2054.5	2071.4	2174.9	2320.0	2452.0	2491.2	2398.4	2273.9	2103.0	1984.4	1971.6
60°	1938.6	1956.9	2117.4	2392.9	2729.8	2900.0	2639.1	2294.2	2003.6	1836.9	1816.9
62.5°	1552.5	1557.6	1793.9	2221.3	2891.8	3332.6	2740.5	2121.2	1714.4	1487.8	1479.9
64°	1117.2	1170.1	1420.4	1947.6	2821.0	3497.3	2682.0	1878.8	1392.6	1163.2	1126.1
65°	835.6	850.0	1145.0	1663.2	2696.1	3484.9	2568.6	1647.0	1153.3	890.2	849.0
67.5°	315.7	317.4	422.6	829.0	1919.4	2998.4	1960.3	896.1	485.9	351.4	338.7
70°	131.0	133.4	155.1	278.9	824.9	1925.2	945.2	323.2	177.8	144.1	142.0
72.5°	95.9	97.3	103.8	123.8	253.8	790.5	310.8	137.2	104.2	93.2	92.2
75°	75.3	76.0	80.8	91.1	118.3	219.0	129.3	94.2	79.4	71.5	70.8
77.5°	57.4	59.1	62.6	69.5	79.4	103.8	85.6	70.5	61.2	54.7	53.6
80°	39.5	41.6	48.1	50.9	53.3	67.4	58.5	53.3	47.8	39.9	37.5
82.5°	24.4	25.8	32.3	34.7	33.7	37.8	37.5	38.2	34.0	24.8	23.0
85°	12.7	13.4	17.5	18.2	16.8	15.5	19.3	22.4	21.0	14.1	13.8
87.5°	2.8	3.1	3.8	3.4	3.8	3.8	4.8	7.2	7.6	4.8	4.5
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)