

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: LUMARK

Report Number: P959435

Luminaire Tested: **NAV-SB1A-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

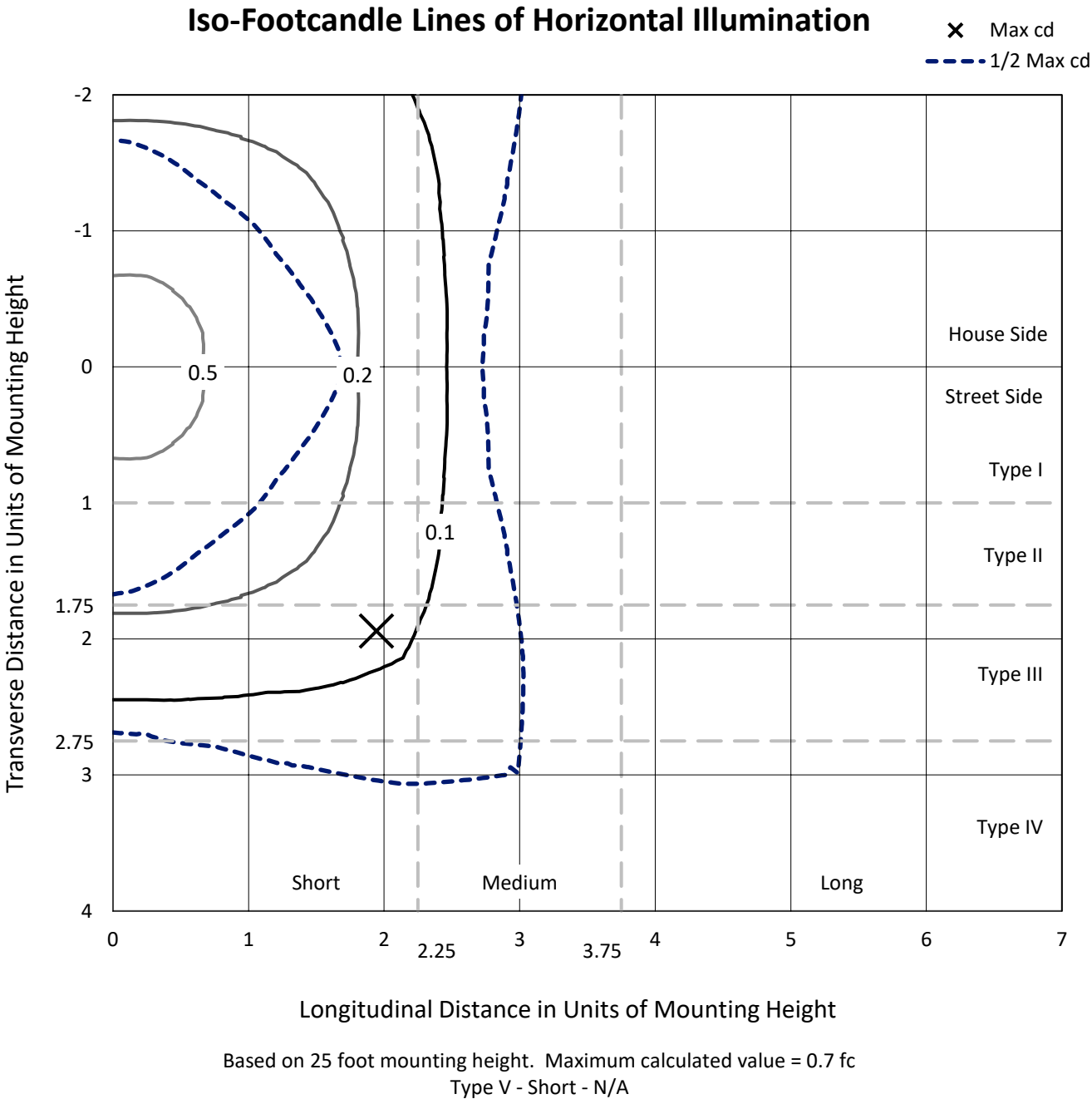
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4328.6 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 30.9
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

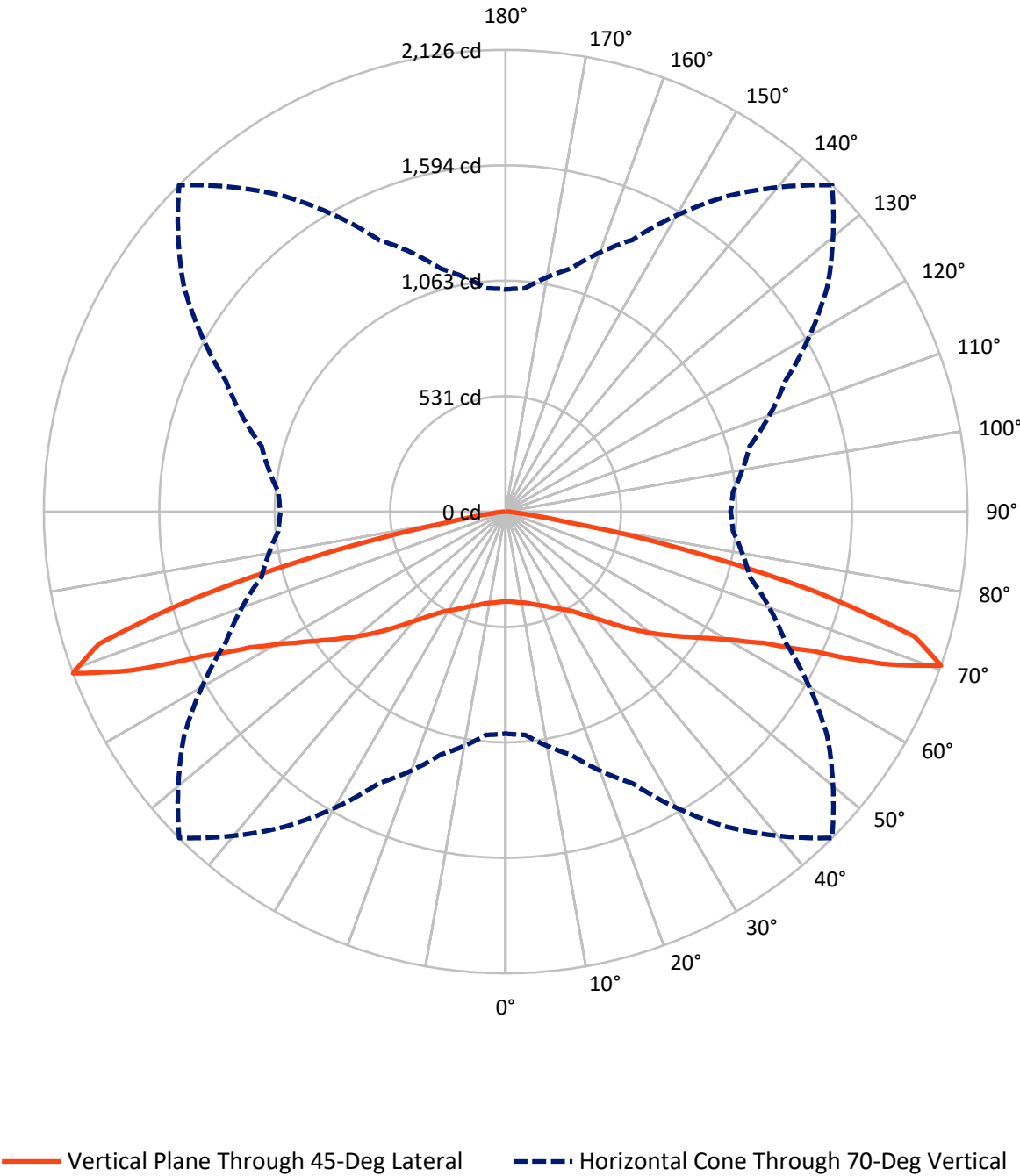


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Luminous Intensity Polar Plot



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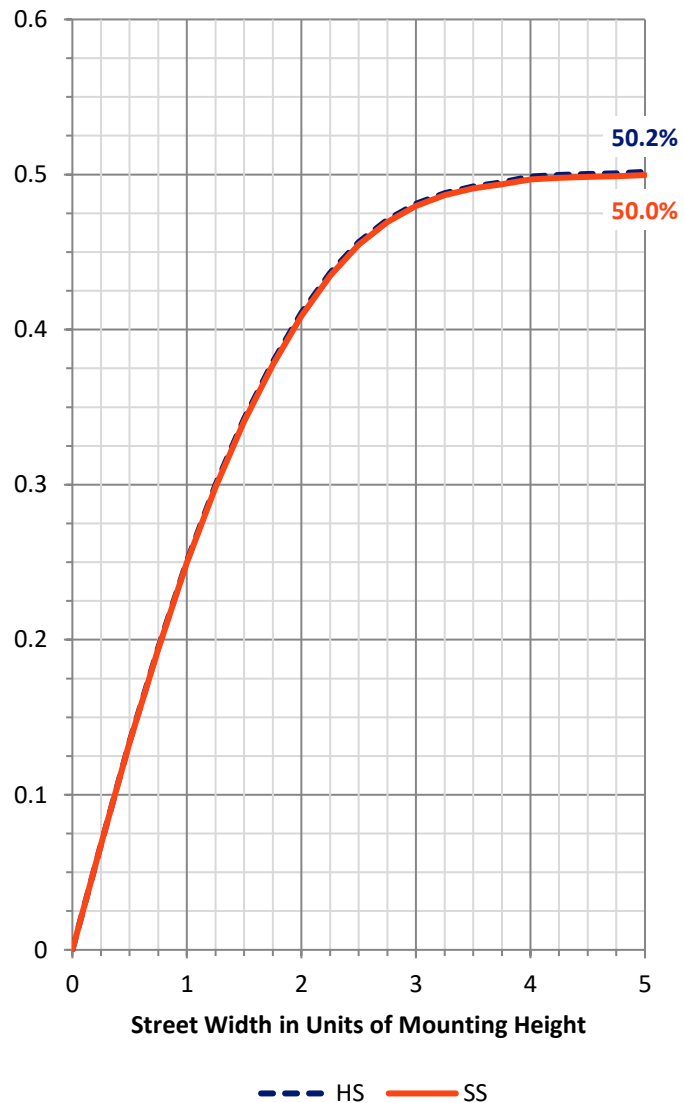
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2164.3	0.0	2164.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2164.3	0.0	2164.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4328.6	0.0	4328.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	0.9
10°-20°	124.9	2.9
20°-30°	223.2	5.2
30°-40°	361.8	8.4
40°-50°	589.4	13.6
50°-60°	898.6	20.8
60°-70°	1336.9	30.9
70°-80°	728.6	16.8
80°-90°	24.8	0.6
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°	4328.6	100.0
0°-180°	4328.6	100.0

Coefficient of Utilization



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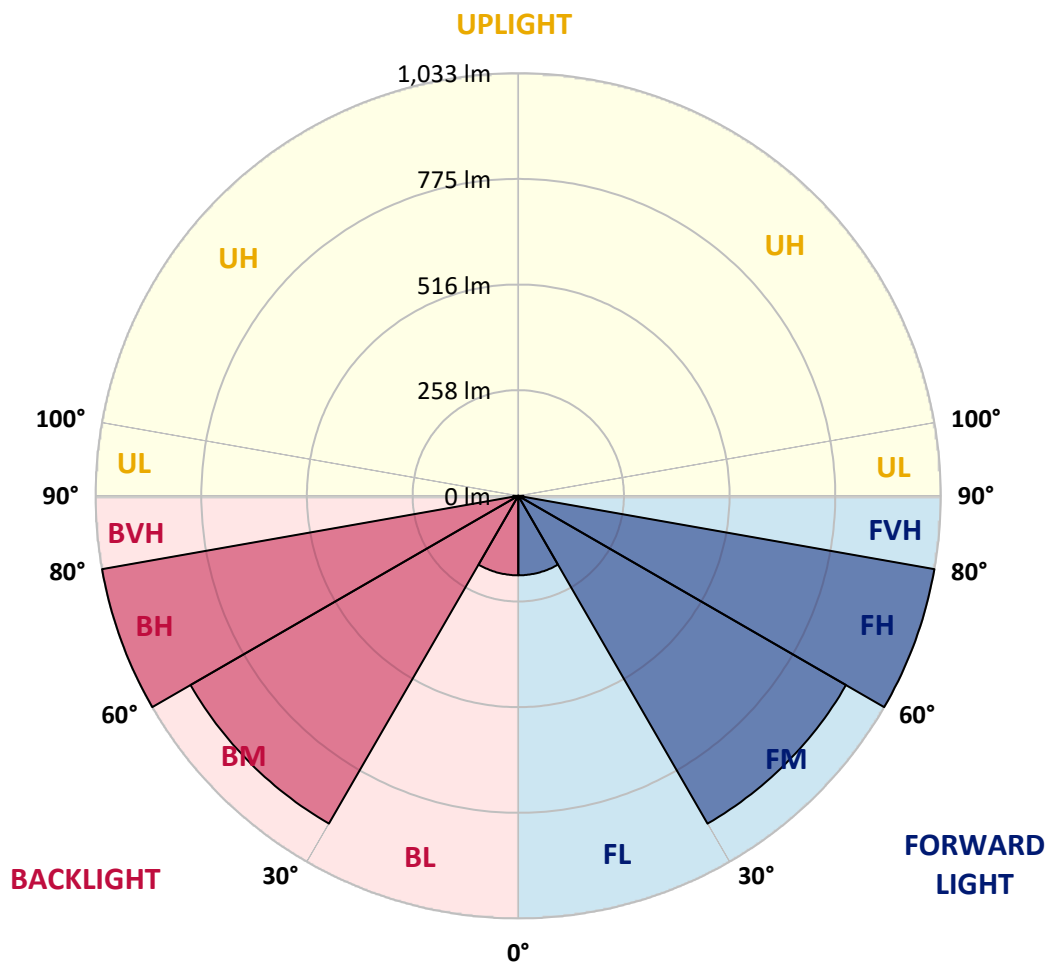
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.2	4.5			
FM	(30°-60°)	924.9	21.4			
FH	(60°-80°)	1032.7	23.9			G1/1800
FVH	(80°-90°)	12.4	0.3			G1/100
BL	(0°-30°)	194.2	4.5	B1/500		
BM	(30°-60°)	924.9	21.4	B1/1000		
BH	(60°-80°)	1032.7	23.9	B3/2500		G1/1800
BVH	(80°-90°)	12.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6
2.5°	416.6	417.1	416.2	415.7	415.3	414.6	414.8	415.9	416.8	416.6	416.8
5°	420.0	420.5	419.8	419.6	418.7	418.5	418.5	419.6	420.2	419.8	420.0
7.5°	423.9	424.7	423.5	423.3	422.9	422.5	422.2	423.3	423.9	423.9	423.9
10°	427.6	428.3	427.4	426.8	426.4	426.4	425.9	426.8	427.9	427.6	427.6
12.5°	431.6	432.0	431.1	430.7	430.7	431.3	430.7	431.1	432.0	431.6	431.3
15°	436.3	436.5	436.3	437.1	438.1	440.2	438.3	437.9	438.3	437.3	437.3
17.5°	442.9	443.3	444.2	445.7	447.2	451.1	447.6	446.6	446.6	444.4	444.4
20°	450.9	451.6	452.8	455.5	457.5	461.1	457.7	456.1	455.5	452.6	452.6
22.5°	459.4	460.5	462.5	466.0	469.3	472.8	469.3	466.8	464.8	461.1	460.9
25°	469.1	470.5	473.6	479.2	484.0	488.9	484.8	479.6	475.7	470.5	470.3
27.5°	483.1	484.6	488.3	495.3	501.3	505.7	501.7	495.1	489.6	483.3	483.1
30°	502.7	504.2	508.5	515.9	520.0	522.9	520.3	515.1	508.5	501.3	501.3
32.5°	527.9	529.8	534.6	541.5	542.4	542.8	542.0	539.4	534.6	525.9	526.1
35°	559.8	562.0	567.4	573.1	572.2	573.1	571.7	570.9	567.4	557.4	557.4
37.5°	598.9	601.6	607.2	611.5	609.4	608.2	608.4	608.6	606.7	595.6	595.6
40°	644.3	647.8	651.9	656.5	652.8	649.5	651.7	653.4	651.7	640.4	640.4
42.5°	691.1	696.1	700.4	706.9	703.9	699.8	702.7	704.8	701.1	688.9	689.7
45°	743.0	747.7	753.4	763.2	761.1	756.7	761.1	761.5	755.1	740.9	742.3
47.5°	796.6	801.7	810.2	823.2	822.4	817.5	823.2	820.1	812.1	794.9	793.9
50°	847.5	854.4	867.6	885.8	887.5	881.6	889.3	883.3	869.9	848.4	848.0
52.5°	895.3	902.7	923.3	948.1	954.5	946.8	957.0	946.8	926.6	899.0	896.5
55°	945.6	953.8	978.4	1010.8	1023.4	1017.7	1027.3	1011.8	983.1	949.7	945.0
57.5°	1004.6	1009.6	1038.9	1077.5	1098.7	1100.0	1104.3	1078.3	1043.6	1005.5	1000.3
60°	1068.8	1075.7	1107.6	1153.7	1187.4	1198.2	1193.7	1155.0	1114.6	1070.9	1063.9
62.5°	1150.9	1158.5	1196.8	1251.9	1305.1	1332.1	1314.4	1258.3	1208.3	1155.9	1146.8
65°	1218.9	1227.3	1296.5	1394.9	1491.9	1546.0	1501.2	1398.0	1308.0	1234.1	1221.9
67.5°	1169.6	1180.0	1288.4	1469.2	1710.2	1871.8	1718.5	1491.4	1315.2	1215.0	1200.0
70°	1022.2	1032.0	1158.5	1379.5	1771.7	2125.5	1808.7	1420.1	1162.7	1050.5	1035.5
72.5°	678.7	710.2	838.1	1103.3	1582.1	1966.9	1597.7	1080.9	777.6	677.1	655.2
75°	225.1	250.3	337.7	571.9	1059.6	1471.0	1008.8	506.1	267.5	192.5	182.1
77.5°	56.7	65.4	90.2	163.6	422.7	837.5	380.5	133.7	72.8	50.8	45.4
80°	27.6	30.4	43.5	54.5	105.9	266.2	99.3	51.2	34.3	26.5	24.3
82.5°	15.2	15.5	24.6	30.9	39.4	68.9	40.9	30.0	19.8	16.1	16.1
85°	9.3	9.1	13.0	16.5	16.5	24.6	19.6	16.5	11.3	10.0	10.5
87.5°	3.7	3.7	4.8	5.2	4.6	6.3	5.0	5.4	4.3	4.1	4.3
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)