

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: P960505

Luminaire Tested: **NAV-SB1C-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6825.4 lumens
Efficiency: N/A
Efficacy: 125.5 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

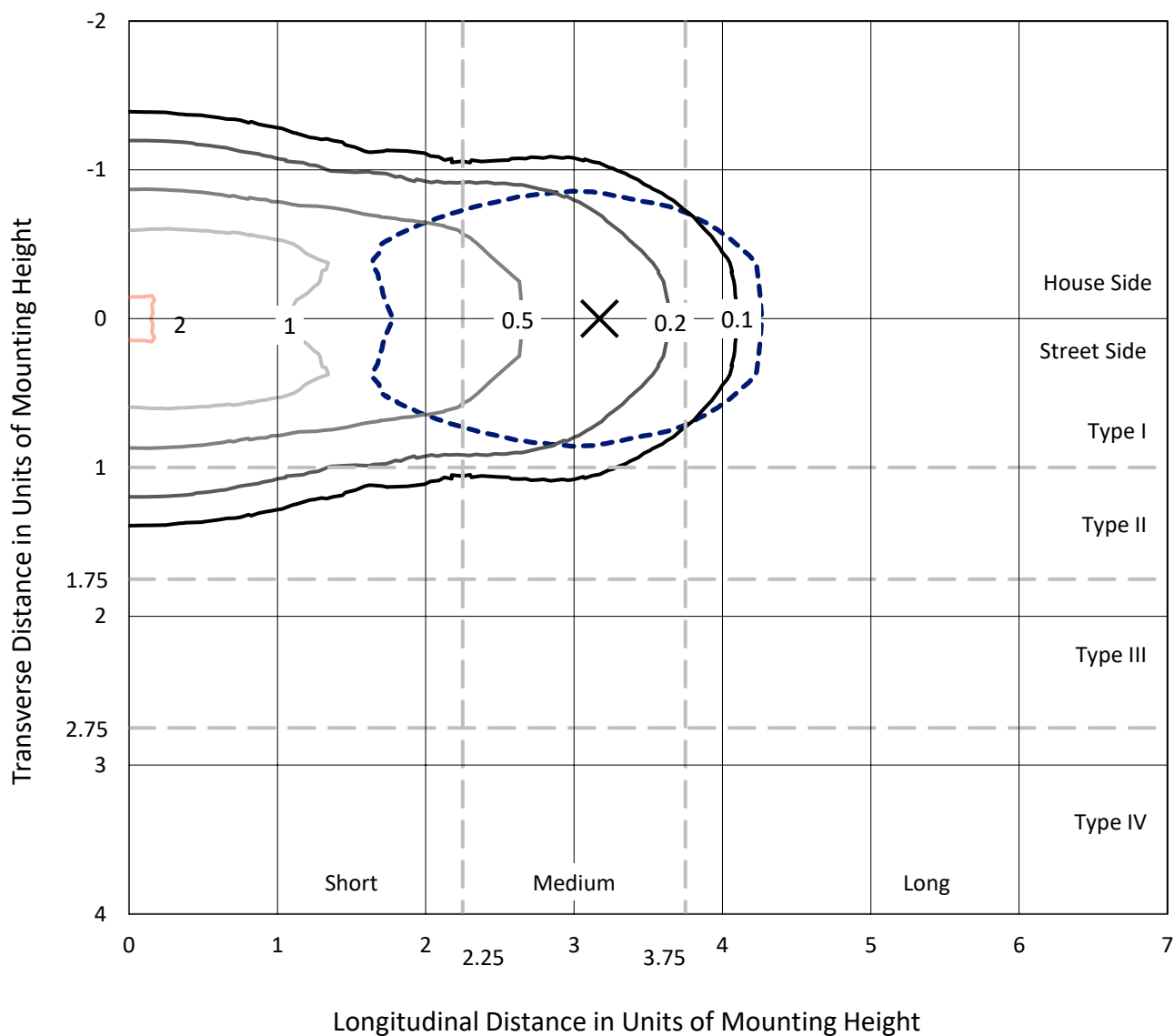
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

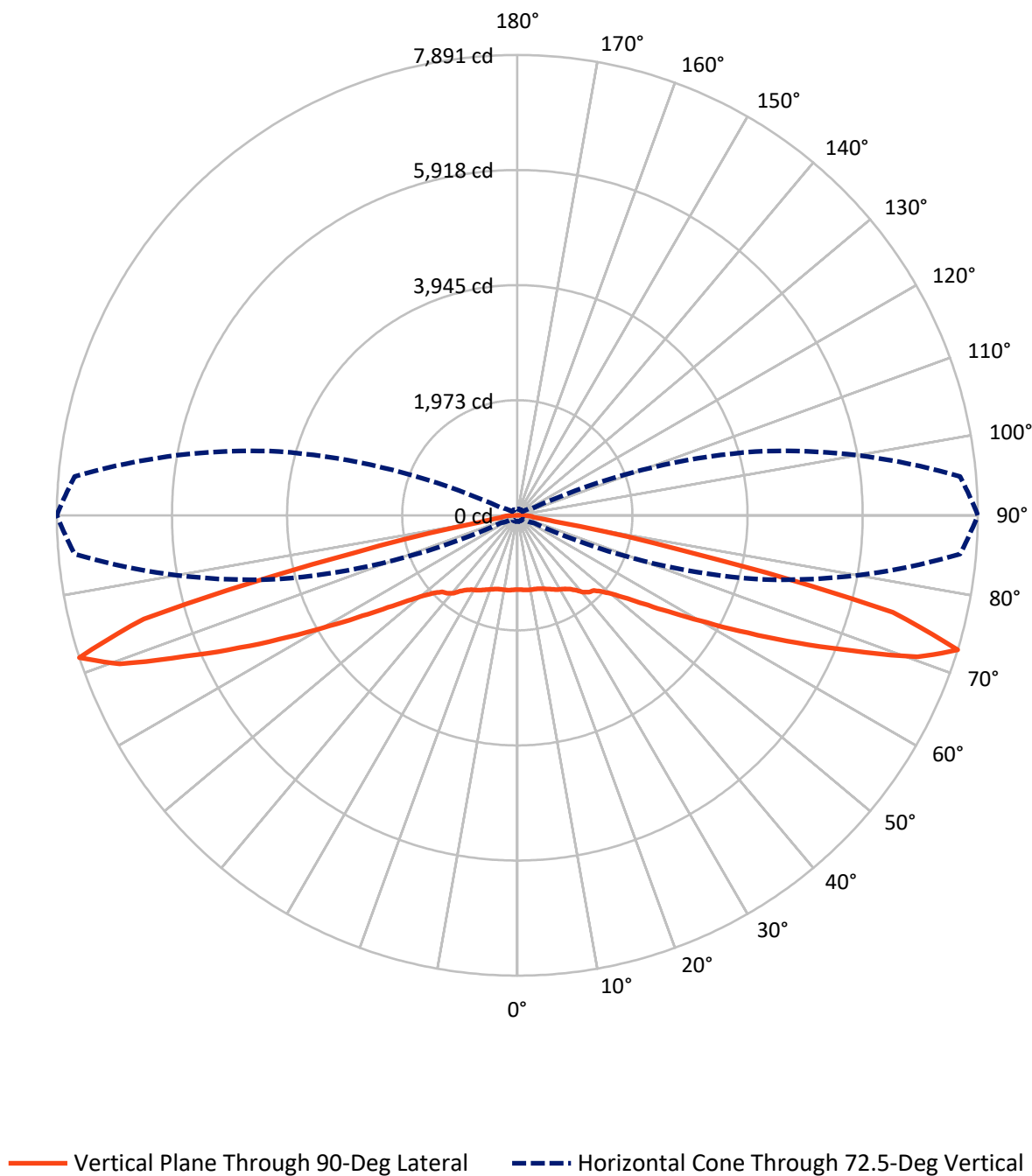
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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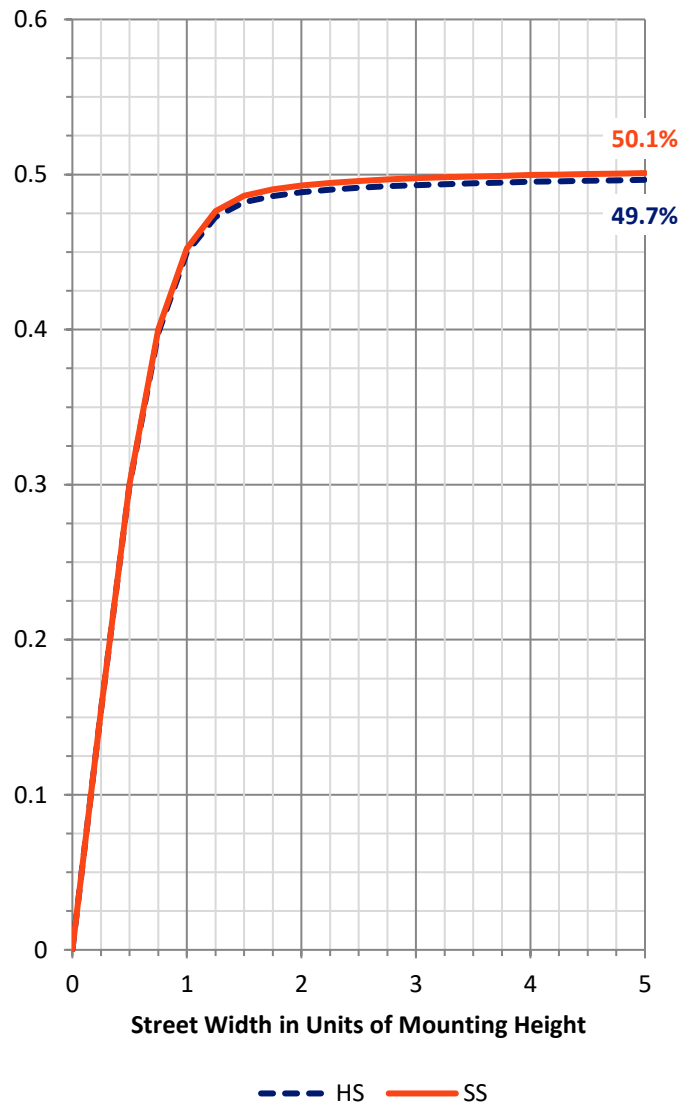
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3412.7	0.0	3412.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3412.7	0.0	3412.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	6825.4	0.0	6825.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	1.8
10°-20°	378.1	5.5
20°-30°	630.5	9.2
30°-40°	867.1	12.7
40°-50°	1059.0	15.5
50°-60°	1224.8	17.9
60°-70°	1460.4	21.4
70°-80°	1019.3	14.9
80°-90°	62.6	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°	6825.4	100.0
0°-180°	6825.4	100.0

Coefficient of Utilization



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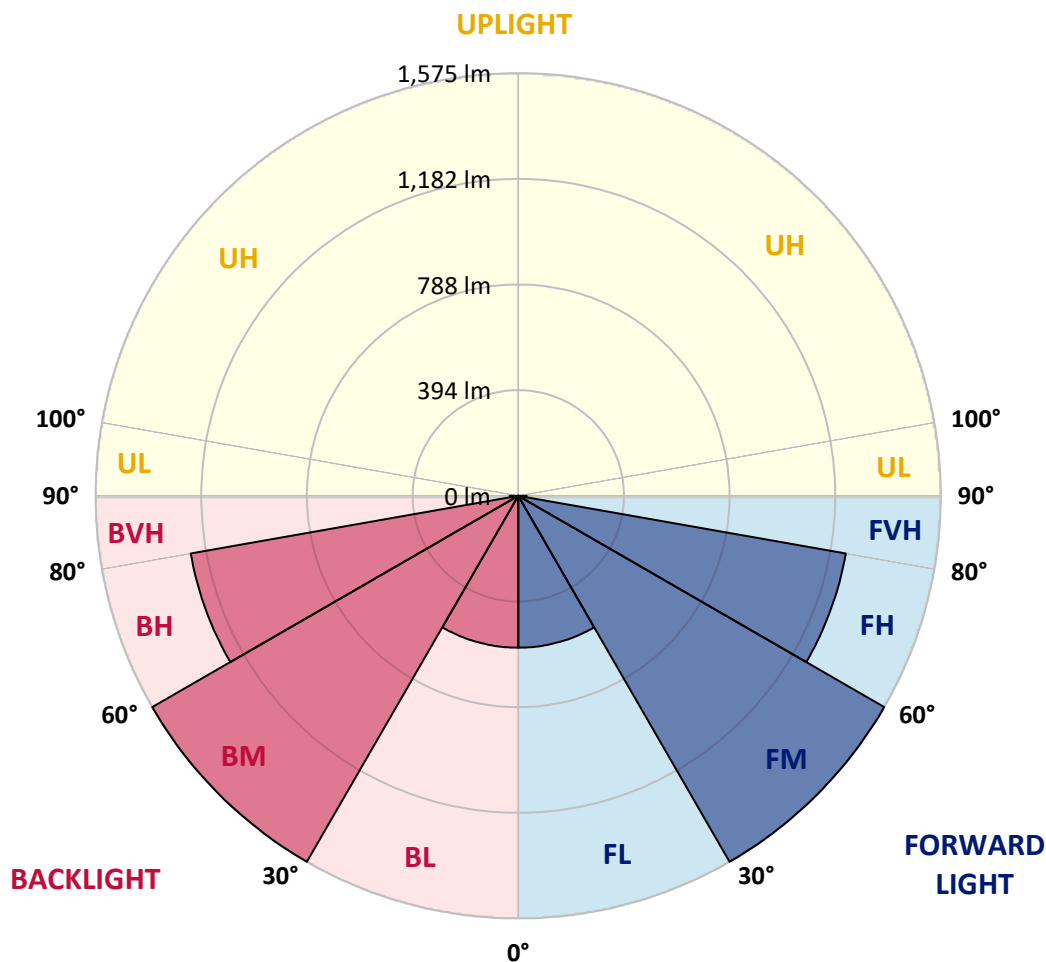
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.1	8.3			
FM	(30°-60°)	1575.5	23.1			
FH	(60°-80°)	1239.8	18.2			G1/1800
FVH	(80°-90°)	31.3	0.5			G1/100
BL	(0°-30°)	566.1	8.3	B2/1000		
BM	(30°-60°)	1575.5	23.1	B2/2500		
BH	(60°-80°)	1239.8	18.2	B3/2500		G3/2500
BVH	(80°-90°)	31.3	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°	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4
2.5°	1276.5	1278.0	1278.0	1276.8	1279.4	1277.3	1277.3	1276.1	1277.3	1276.1	1276.1
5°	1283.0	1284.8	1285.6	1285.2	1288.4	1286.7	1286.7	1285.2	1285.6	1284.5	1284.5
7.5°	1295.4	1297.9	1299.4	1301.1	1305.8	1303.7	1302.3	1297.9	1296.1	1293.1	1293.1
10°	1299.4	1302.3	1307.0	1316.4	1327.3	1327.7	1323.3	1312.4	1304.1	1297.5	1296.4
12.5°	1287.0	1291.0	1300.8	1320.0	1344.3	1354.1	1347.3	1329.1	1312.8	1301.1	1299.4
15°	1271.4	1275.8	1290.7	1319.7	1355.6	1378.4	1377.7	1353.7	1327.7	1309.5	1306.6
17.5°	1247.1	1251.4	1272.8	1313.5	1364.3	1402.0	1412.1	1387.5	1350.8	1326.6	1322.6
20°	1203.2	1207.2	1237.0	1294.0	1367.1	1427.0	1453.6	1431.7	1386.0	1353.0	1346.8
22.5°	1146.3	1152.4	1187.3	1260.1	1360.3	1453.1	1500.7	1485.8	1427.0	1381.3	1373.0
25°	1085.4	1091.8	1132.5	1218.8	1342.5	1472.0	1556.6	1547.1	1473.4	1416.6	1404.9
27.5°	1032.7	1039.7	1083.8	1177.8	1315.0	1479.3	1611.7	1616.4	1529.7	1455.3	1443.0
30°	991.4	997.9	1045.1	1144.8	1279.4	1472.0	1659.9	1692.6	1587.0	1489.1	1471.3
32.5°	946.1	954.4	1004.1	1104.5	1237.3	1454.6	1702.0	1774.9	1653.4	1525.3	1502.9
35°	888.7	896.4	948.5	1049.4	1182.2	1426.7	1737.2	1866.3	1748.4	1580.4	1555.4
37.5°	819.1	826.4	878.2	980.5	1127.4	1387.5	1764.0	1969.3	1861.6	1659.9	1626.6
40°	749.1	755.9	804.5	903.6	1061.8	1337.4	1773.5	2070.2	1991.5	1769.2	1733.6
42.5°	684.9	691.1	735.6	827.8	988.1	1273.6	1761.2	2157.9	2107.9	1845.3	1799.6
45°	625.8	631.2	670.8	756.7	911.5	1196.0	1724.2	2252.3	2246.5	1899.7	1838.0
47.5°	558.2	563.8	604.6	687.8	835.1	1104.9	1661.4	2345.1	2439.1	2023.0	1951.9
50°	475.9	480.6	522.8	608.3	755.6	1008.1	1574.3	2418.1	2682.1	2209.8	2120.6
52.5°	378.3	383.5	424.5	510.0	661.3	903.9	1459.7	2465.5	2962.9	2482.7	2372.7
55°	281.5	285.2	320.6	397.6	544.5	785.4	1316.0	2479.0	3281.4	2855.5	2718.1
57.5°	204.2	206.4	229.3	286.6	412.8	636.9	1141.5	2444.2	3660.5	3333.6	3160.6
60°	165.4	166.2	173.0	198.4	286.9	469.3	930.8	2324.5	4071.8	3949.9	3731.9
62.5°	150.2	150.2	152.0	158.9	194.0	309.8	675.8	2076.3	4512.9	4728.7	4436.7
65°	139.7	139.7	140.4	143.6	153.0	197.3	426.6	1672.3	4884.7	5641.1	5271.8
67.5°	130.2	130.6	130.2	131.3	136.7	145.9	247.4	1155.0	5084.9	6586.3	6187.7
70°	120.4	121.2	119.3	119.3	123.7	124.0	154.9	633.3	4918.9	7378.6	7273.8
72.5°	108.9	109.9	107.0	106.3	109.6	108.1	116.4	304.0	4223.1	7615.1	7890.8
75°	98.7	100.1	93.6	91.7	91.7	90.7	94.7	156.0	2741.0	6212.0	6644.4
77.5°	89.6	92.5	82.0	76.2	74.7	71.4	77.3	95.4	1198.8	2916.4	2855.9
80°	74.0	78.0	67.4	60.6	58.0	54.4	61.0	66.7	356.6	677.2	648.6
82.5°	55.1	57.0	47.9	43.2	41.0	38.4	45.7	46.4	116.0	239.7	271.0
85°	35.2	35.9	29.4	25.4	24.3	23.2	29.0	25.4	44.3	176.3	256.1
87.5°	12.3	14.1	11.3	10.1	10.9	9.0	13.4	7.6	12.3	124.4	154.2
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)