

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: P959839

Luminaire Tested: **NAV-SB1B-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

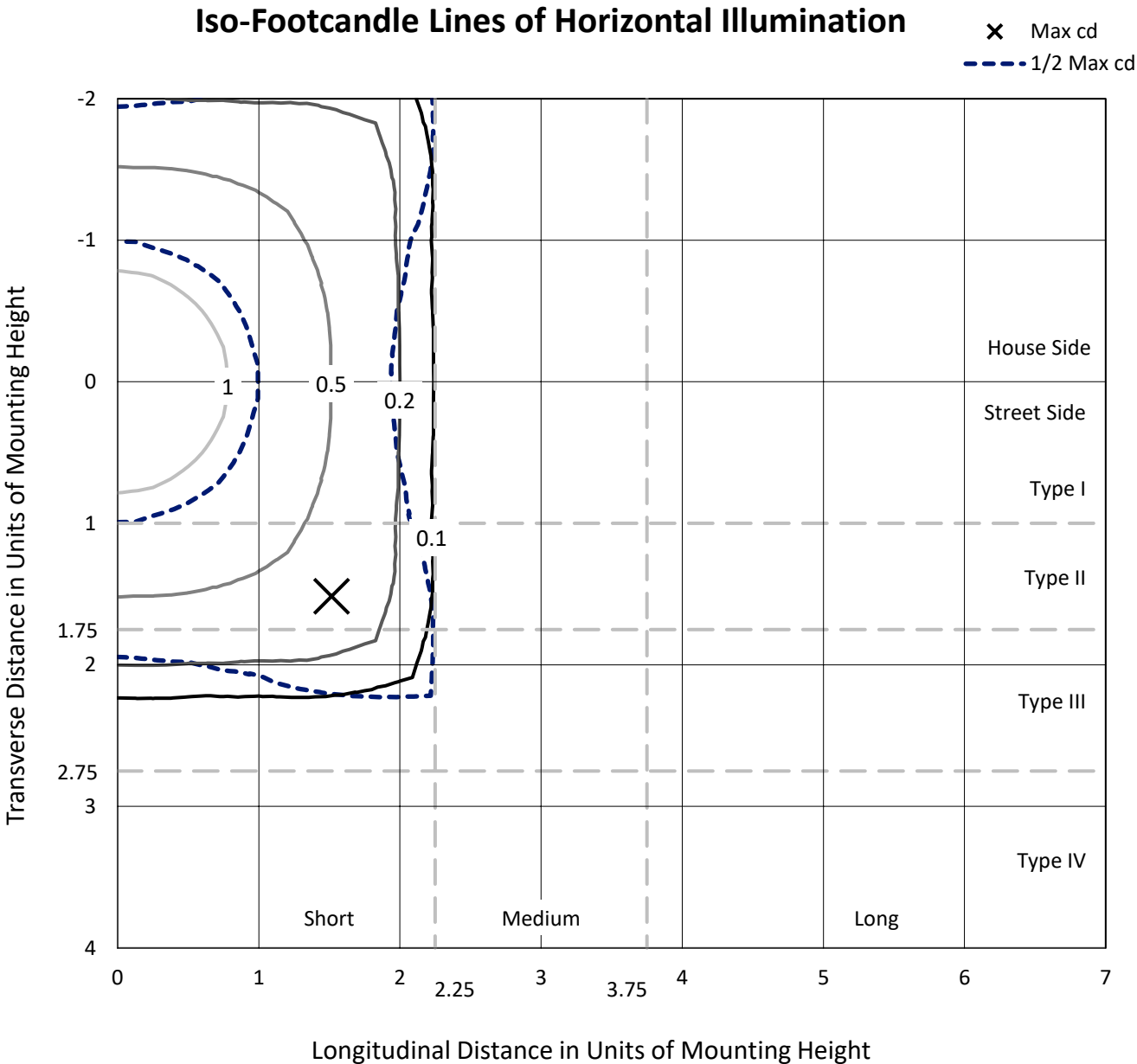
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6401.1 lumens
Efficiency: N/A
Efficacy: 160.8 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): 39.8
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



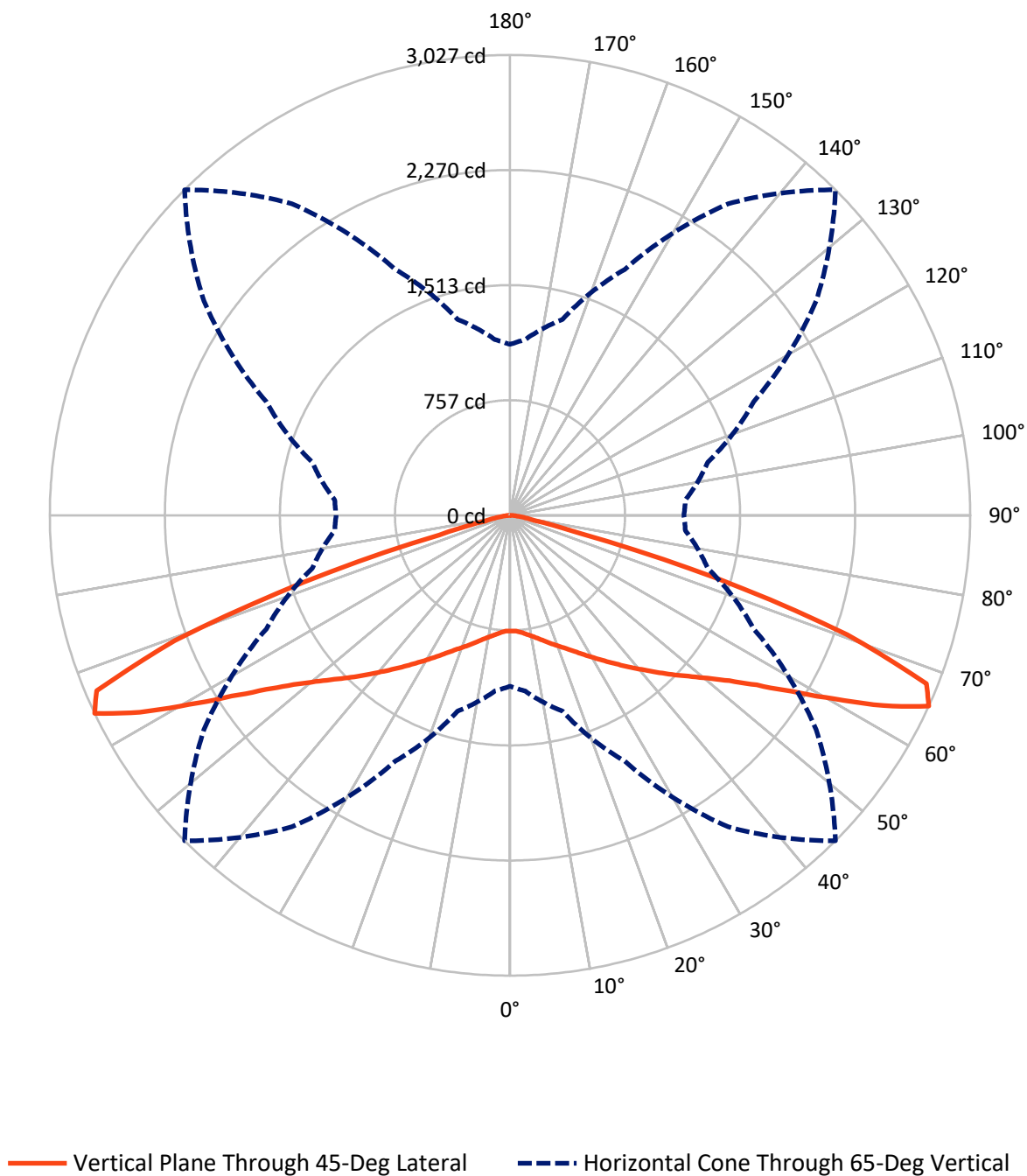
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Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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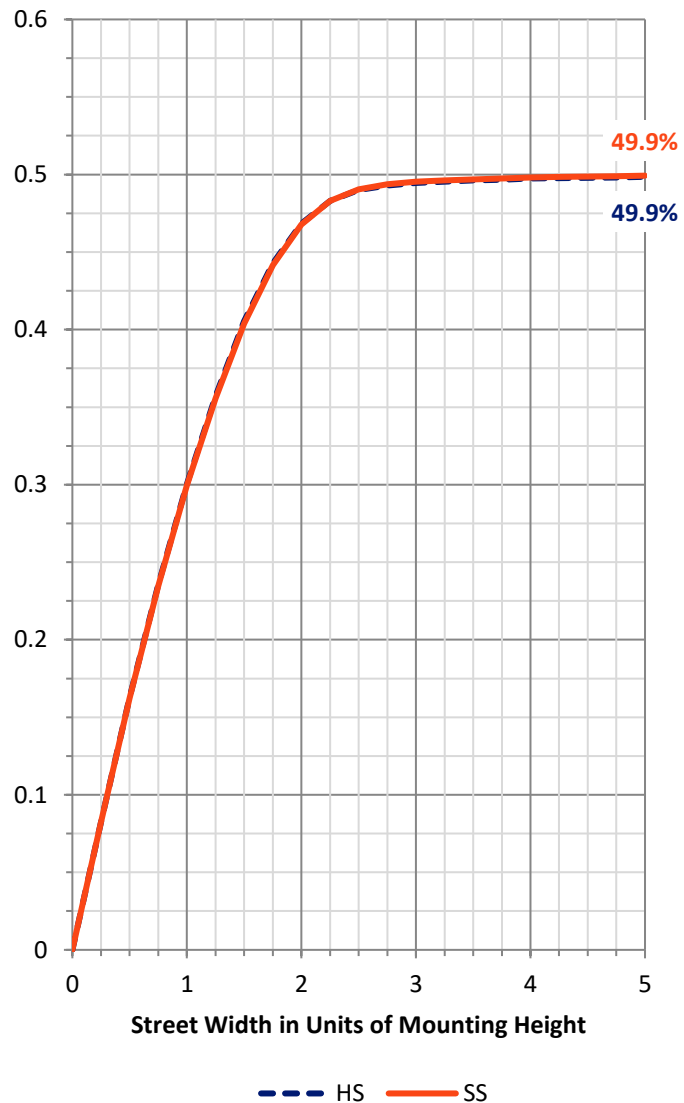
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3200.5	0.0	3200.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3200.5	0.0	3200.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6401.1	0.0	6401.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	1.2
10°-20°	245.3	3.8
20°-30°	463.2	7.2
30°-40°	758.5	11.8
40°-50°	1176.0	18.4
50°-60°	1737.2	27.1
60°-70°	1653.7	25.8
70°-80°	266.8	4.2
80°-90°	25.1	0.4
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°	6401.1	100.0
0°-180°	6401.1	100.0

Coefficient of Utilization



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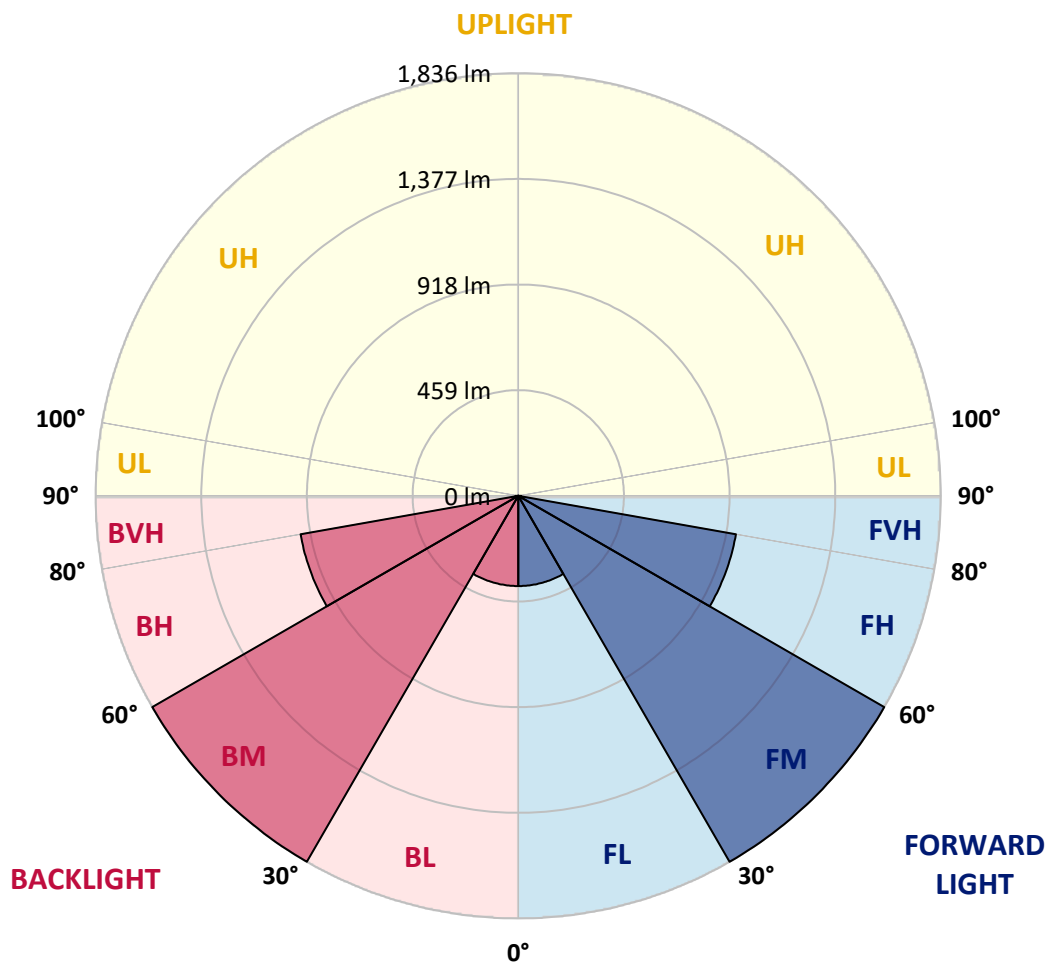
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.9	6.1			
FM	(30°-60°)	1835.9	28.7			
FH	(60°-80°)	960.3	15.0			G1/1800
FVH	(80°-90°)	12.6	0.2			G1/100
BL	(0°-30°)	391.9	6.1	B1/500		
BM	(30°-60°)	1835.9	28.7	B2/2500		
BH	(60°-80°)	960.3	15.0	B2/1000		G1/1800
BVH	(80°-90°)	12.6	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°	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8
2.5°	766.9	764.3	766.3	764.6	763.4	762.1	762.8	765.1	766.0	766.3	766.3
5°	777.3	775.0	775.9	775.9	773.7	773.1	773.4	775.0	776.8	776.8	776.8
7.5°	794.0	791.7	794.0	792.6	790.7	790.1	789.8	791.0	794.0	794.0	792.9
10°	814.2	811.6	812.8	812.2	810.0	809.0	808.7	810.6	813.2	812.8	812.2
12.5°	836.3	833.4	835.1	833.1	832.4	831.5	831.5	831.2	832.8	831.5	832.1
15°	861.0	859.2	859.8	858.4	859.5	858.7	856.2	855.0	855.6	853.6	853.9
17.5°	890.2	885.8	888.1	887.3	887.3	888.7	884.5	882.8	884.2	882.2	883.9
20°	923.9	919.5	920.4	919.1	917.6	918.8	913.7	915.0	915.9	914.7	917.6
22.5°	960.9	955.1	954.8	955.5	951.9	952.2	948.7	951.9	953.9	950.3	953.9
25°	998.9	992.7	996.9	995.3	990.8	991.8	989.2	992.4	994.0	989.5	994.7
27.5°	1038.9	1034.7	1038.6	1039.6	1034.1	1038.0	1034.1	1037.0	1038.6	1031.9	1037.0
30°	1085.9	1081.7	1085.2	1087.7	1081.4	1087.4	1084.2	1086.2	1086.5	1078.5	1083.3
32.5°	1136.9	1130.5	1139.5	1140.7	1133.8	1141.1	1136.9	1139.5	1141.1	1130.2	1137.5
35°	1199.2	1191.2	1201.5	1199.9	1193.7	1199.9	1196.0	1199.9	1203.8	1190.5	1198.5
37.5°	1266.4	1258.0	1268.9	1266.0	1260.2	1264.4	1262.2	1264.7	1270.8	1256.8	1265.4
40°	1340.2	1329.9	1344.7	1339.6	1334.1	1333.4	1334.8	1336.4	1344.4	1328.6	1333.8
42.5°	1419.2	1408.2	1430.5	1422.4	1414.7	1409.6	1413.8	1417.0	1424.6	1407.0	1416.3
45°	1509.4	1496.9	1525.8	1516.2	1504.0	1493.4	1500.2	1505.0	1516.2	1495.0	1505.9
47.5°	1609.0	1594.9	1625.8	1622.9	1602.9	1579.8	1595.2	1609.0	1617.3	1591.7	1600.3
50°	1706.3	1695.5	1735.8	1739.4	1715.0	1682.5	1704.1	1725.0	1727.2	1693.5	1697.7
52.5°	1797.5	1786.7	1845.4	1867.5	1845.7	1807.2	1830.0	1851.2	1834.1	1790.5	1791.8
55°	1870.4	1861.5	1936.3	1993.4	2000.8	1969.0	1982.6	1981.9	1926.0	1858.9	1861.1
57.5°	1888.2	1886.8	1981.2	2102.4	2179.5	2183.2	2156.6	2088.5	1968.1	1877.8	1872.1
60°	1807.8	1815.9	1945.6	2159.2	2364.7	2450.2	2334.8	2140.5	1920.2	1795.0	1780.2
62.5°	1567.6	1588.7	1745.2	2089.8	2514.4	2757.1	2477.7	2061.6	1723.6	1560.3	1550.6
65°	1123.4	1160.4	1333.1	1783.4	2500.9	3026.9	2457.2	1768.9	1346.0	1157.4	1143.7
67.5°	509.7	547.2	694.0	1221.1	2173.9	2953.7	2168.8	1233.9	728.7	549.2	541.2
70°	184.7	191.1	238.3	488.8	1389.4	2353.5	1448.7	492.3	253.4	203.7	201.0
72.5°	111.7	112.7	122.7	175.1	482.7	1428.8	503.3	180.8	125.3	111.1	113.1
75°	70.9	70.3	87.3	106.9	171.2	482.1	179.6	106.9	87.0	79.3	79.9
77.5°	51.0	52.7	62.6	79.9	107.9	163.5	106.0	76.5	62.6	51.4	52.4
80°	38.2	39.2	45.6	62.3	75.7	101.8	67.4	56.5	47.3	32.1	33.1
82.5°	27.6	27.6	29.8	45.3	46.2	54.9	36.6	39.9	31.2	22.8	22.8
85°	16.4	16.1	18.7	27.0	24.1	20.2	16.7	24.4	19.6	14.1	13.8
87.5°	5.7	6.1	5.7	7.7	6.5	5.4	5.1	6.8	5.4	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)