

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: P961047

Luminaire Tested: **NAV-SB1D-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961047
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-SB1D-835-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10135.2 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

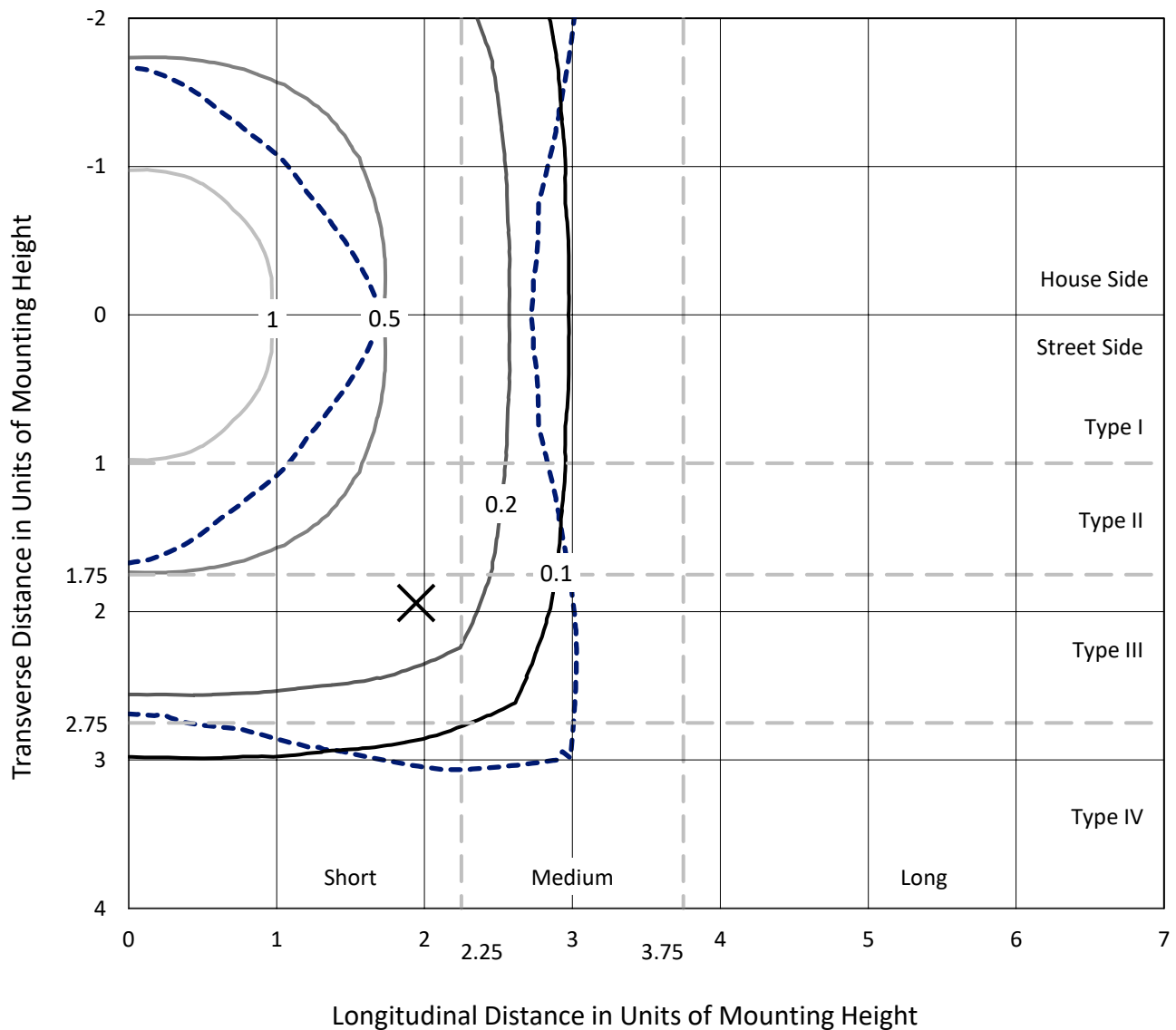
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

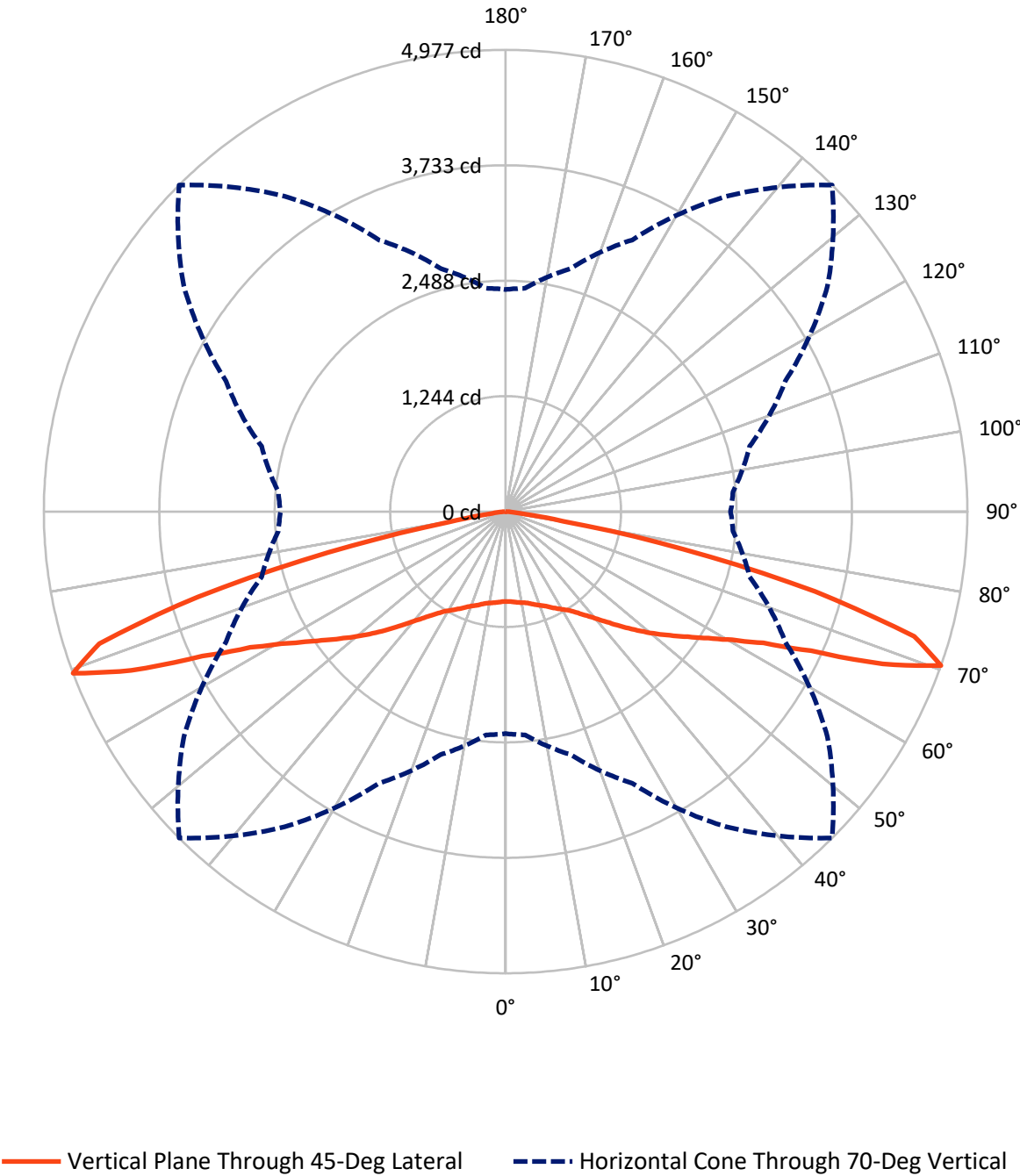
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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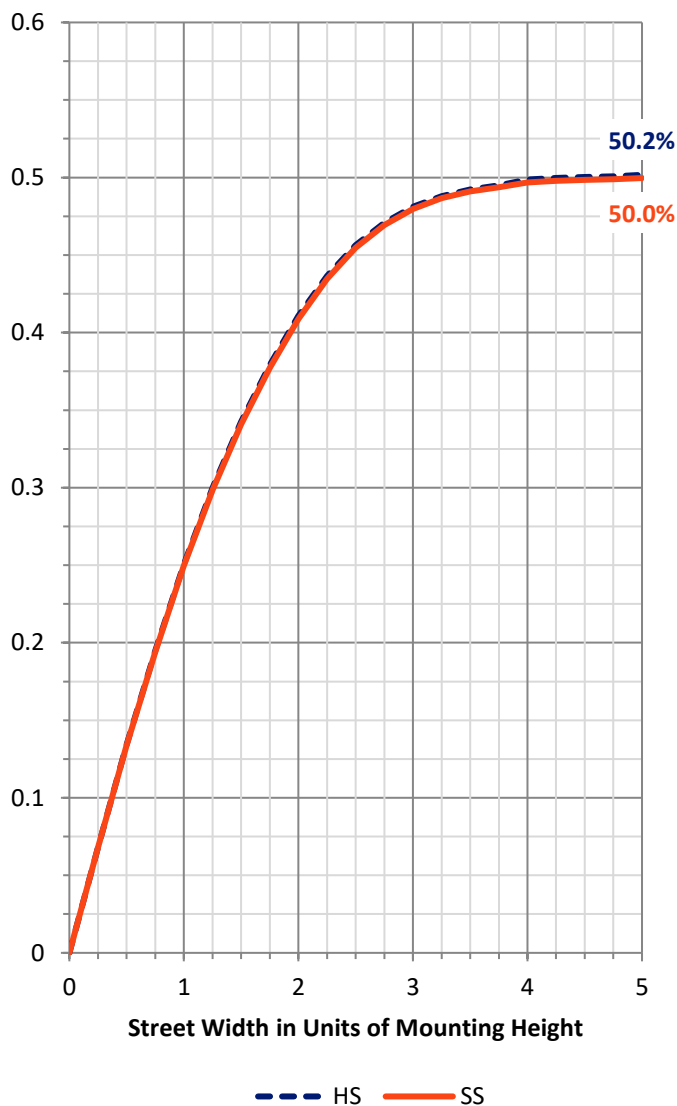
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5067.6	0.0	5067.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5067.6	0.0	5067.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	10135.2	0.0	10135.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	0.9
10°-20°	292.5	2.9
20°-30°	522.7	5.2
30°-40°	847.3	8.4
40°-50°	1380.0	13.6
50°-60°	2104.1	20.8
60°-70°	3130.2	30.9
70°-80°	1706.1	16.8
80°-90°	58.1	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°	10135.2	100.0
0°-180°	10135.2	100.0

Coefficient of Utilization



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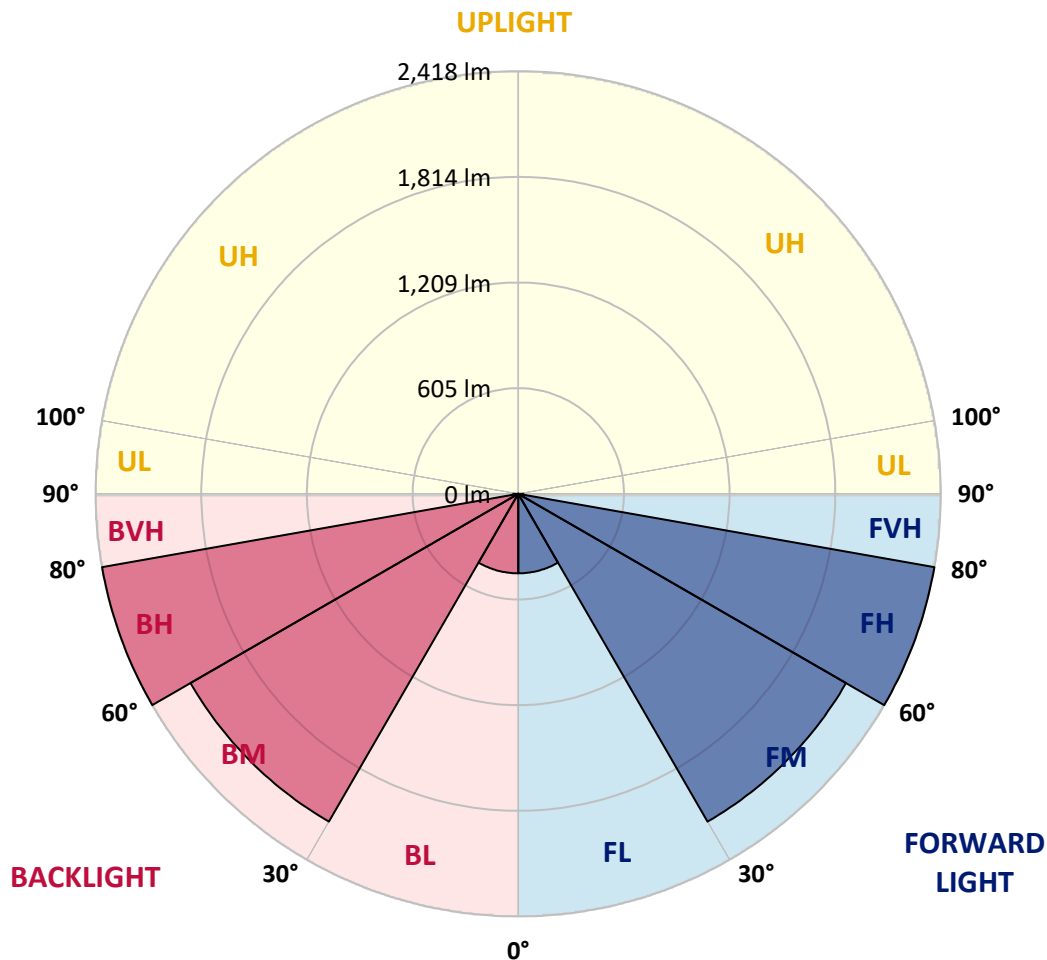
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.7	4.5			
FM	(30°-60°)	2165.7	21.4			
FH	(60°-80°)	2418.1	23.9			G2/5000
FVH	(80°-90°)	29.0	0.3			G1/100
BL	(0°-30°)	454.7	4.5	B1/500		
BM	(30°-60°)	2165.7	21.4	B2/2500		
BH	(60°-80°)	2418.1	23.9	B3/2500		G2/5000
BVH	(80°-90°)	29.0	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9
2.5°	975.4	976.4	974.4	973.4	972.4	970.9	971.4	973.9	975.9	975.4	975.9
5°	983.6	984.6	983.1	982.6	980.5	980.0	980.0	982.6	984.1	983.1	983.6
7.5°	992.7	994.2	991.7	991.2	990.1	989.1	988.6	991.2	992.7	992.7	992.7
10°	1001.4	1002.9	1000.9	999.4	998.4	998.4	997.3	999.4	1001.8	1001.4	1001.4
12.5°	1010.5	1011.6	1009.5	1008.5	1008.5	1010.0	1008.5	1009.5	1011.6	1010.5	1010.0
15°	1021.7	1022.2	1021.7	1023.3	1025.8	1030.8	1026.3	1025.3	1026.3	1023.8	1023.8
17.5°	1037.0	1038.0	1040.1	1043.7	1047.1	1056.4	1048.2	1045.6	1045.6	1040.6	1040.6
20°	1055.9	1057.4	1060.4	1066.5	1071.1	1079.7	1071.6	1068.0	1066.5	1059.8	1059.8
22.5°	1075.6	1078.2	1082.8	1090.9	1099.1	1107.2	1099.1	1093.0	1088.3	1079.7	1079.2
25°	1098.6	1101.6	1108.7	1122.0	1133.1	1144.8	1135.2	1123.0	1113.9	1101.6	1101.2
27.5°	1131.1	1134.7	1143.4	1159.6	1173.8	1184.1	1174.9	1159.1	1146.4	1131.6	1131.1
30°	1176.9	1180.5	1190.6	1208.0	1217.6	1224.3	1218.1	1205.9	1190.6	1173.8	1173.8
32.5°	1235.9	1240.6	1251.7	1268.0	1270.1	1271.1	1269.1	1262.9	1251.7	1231.3	1231.8
35°	1310.8	1315.8	1328.6	1341.8	1339.8	1341.8	1338.8	1336.7	1328.6	1305.1	1305.1
37.5°	1402.3	1408.5	1421.7	1431.8	1426.8	1424.2	1424.7	1425.3	1420.6	1394.7	1394.7
40°	1508.7	1516.8	1526.5	1537.2	1528.5	1520.9	1526.0	1530.0	1526.0	1499.5	1499.5
42.5°	1618.1	1629.7	1640.0	1655.3	1648.1	1638.5	1645.5	1650.1	1641.4	1612.9	1615.0
45°	1739.7	1750.9	1764.1	1787.0	1782.0	1771.7	1782.0	1783.0	1768.2	1734.6	1738.2
47.5°	1865.4	1877.1	1897.0	1927.4	1925.5	1914.2	1927.4	1920.3	1901.5	1861.3	1858.7
50°	1984.4	2000.7	2031.2	2074.0	2078.1	2064.4	2082.1	2068.3	2036.9	1986.4	1985.4
52.5°	2096.3	2113.7	2162.0	2220.0	2234.8	2217.0	2240.9	2217.0	2169.6	2105.0	2098.9
55°	2213.9	2233.3	2290.8	2366.5	2396.0	2382.8	2405.3	2369.1	2301.9	2223.6	2212.9
57.5°	2352.3	2364.1	2432.7	2522.7	2572.6	2575.7	2585.9	2524.8	2443.4	2354.3	2342.1
60°	2502.4	2518.7	2593.5	2701.4	2780.2	2805.7	2795.0	2704.5	2609.8	2507.6	2491.3
62.5°	2694.7	2712.6	2802.1	2931.4	3056.0	3119.2	3077.4	2946.2	2829.1	2706.5	2685.1
65°	2854.0	2873.9	3035.6	3266.2	3493.1	3619.8	3515.0	3273.3	3062.6	2889.7	2861.2
67.5°	2738.5	2763.0	3016.9	3440.2	4004.5	4382.6	4023.8	3492.1	3079.4	2844.9	2809.7
70°	2393.6	2416.4	2712.6	3230.1	4148.5	4976.9	4235.0	3325.2	2722.2	2459.7	2424.5
72.5°	1589.1	1662.9	1962.6	2583.3	3704.2	4605.4	3740.9	2530.9	1820.6	1585.5	1534.1
75°	527.2	586.2	790.7	1339.3	2481.0	3444.3	2362.0	1185.1	626.4	450.8	426.4
77.5°	132.8	153.1	211.2	383.1	989.6	1961.0	890.9	312.9	170.5	119.1	106.4
80°	64.6	71.2	101.8	127.7	247.8	623.3	232.6	120.1	80.4	62.1	57.0
82.5°	35.6	36.1	57.5	72.3	92.1	161.3	95.6	70.2	46.3	37.6	37.6
85°	21.8	21.3	30.5	38.6	38.6	57.5	45.8	38.6	26.4	23.4	24.4
87.5°	8.6	8.6	11.2	12.2	10.7	14.8	11.7	12.7	10.1	9.6	10.1
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)