

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: P960925

Luminaire Tested: **NAV-SB1D-750-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-750-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11165.3 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

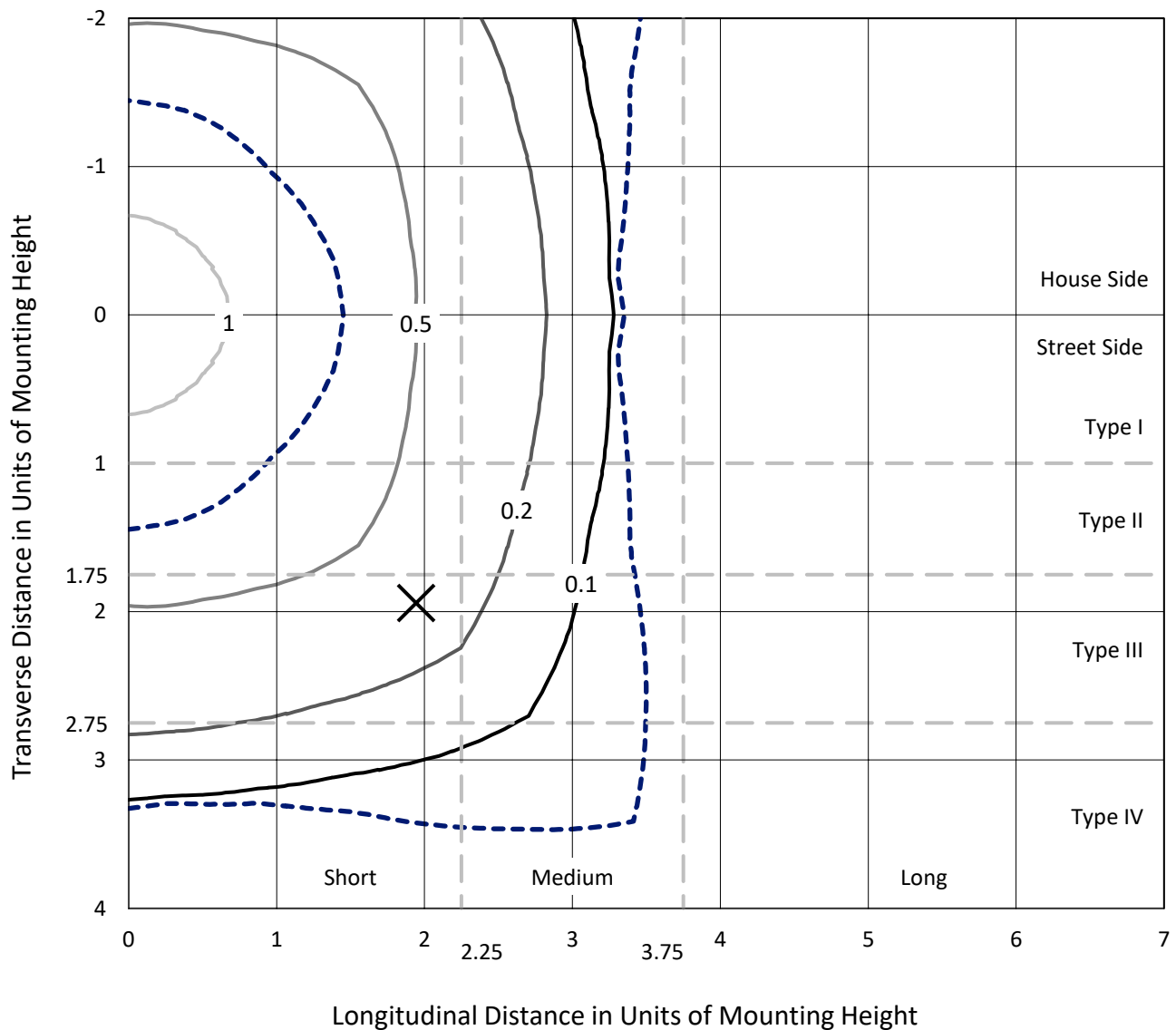
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

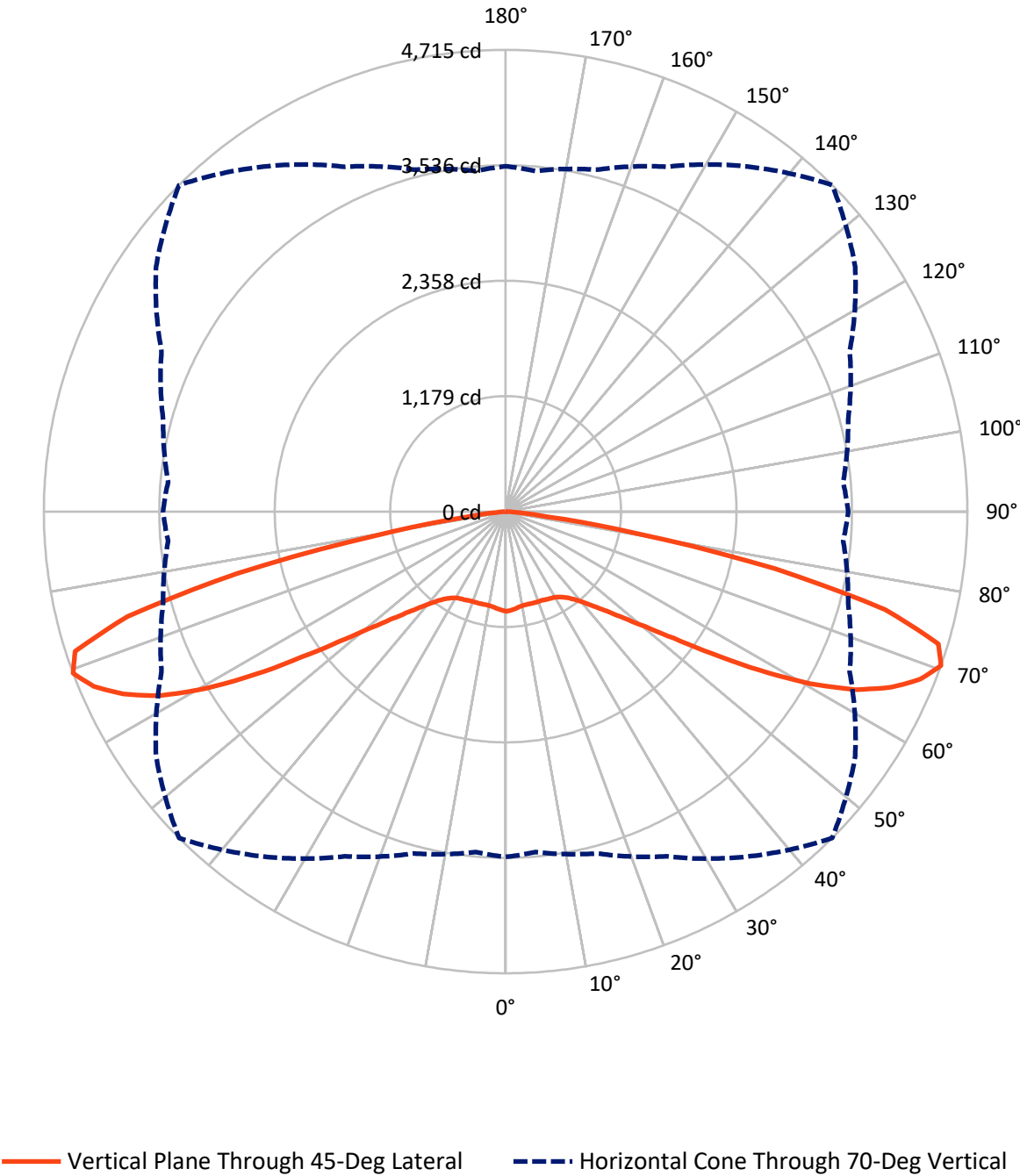
× Max cd
- - - 1/2 Max cd



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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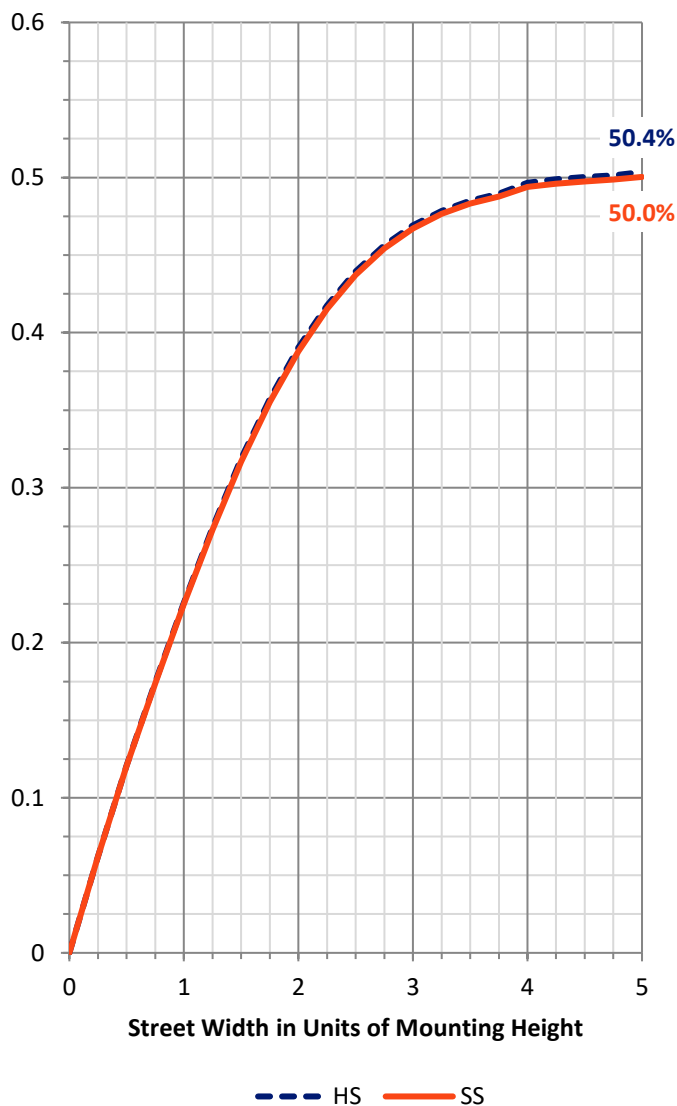
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5582.7	0.0	5582.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5582.7	0.0	5582.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	11165.3	0.0	11165.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	0.8
10°-20°	278.2	2.5
20°-30°	463.0	4.1
30°-40°	700.1	6.3
40°-50°	1163.4	10.4
50°-60°	2195.4	19.7
60°-70°	3707.0	33.2
70°-80°	2435.9	21.8
80°-90°	127.6	1.1
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°	11165.3	100.0
0°-180°	11165.3	100.0

Coefficient of Utilization



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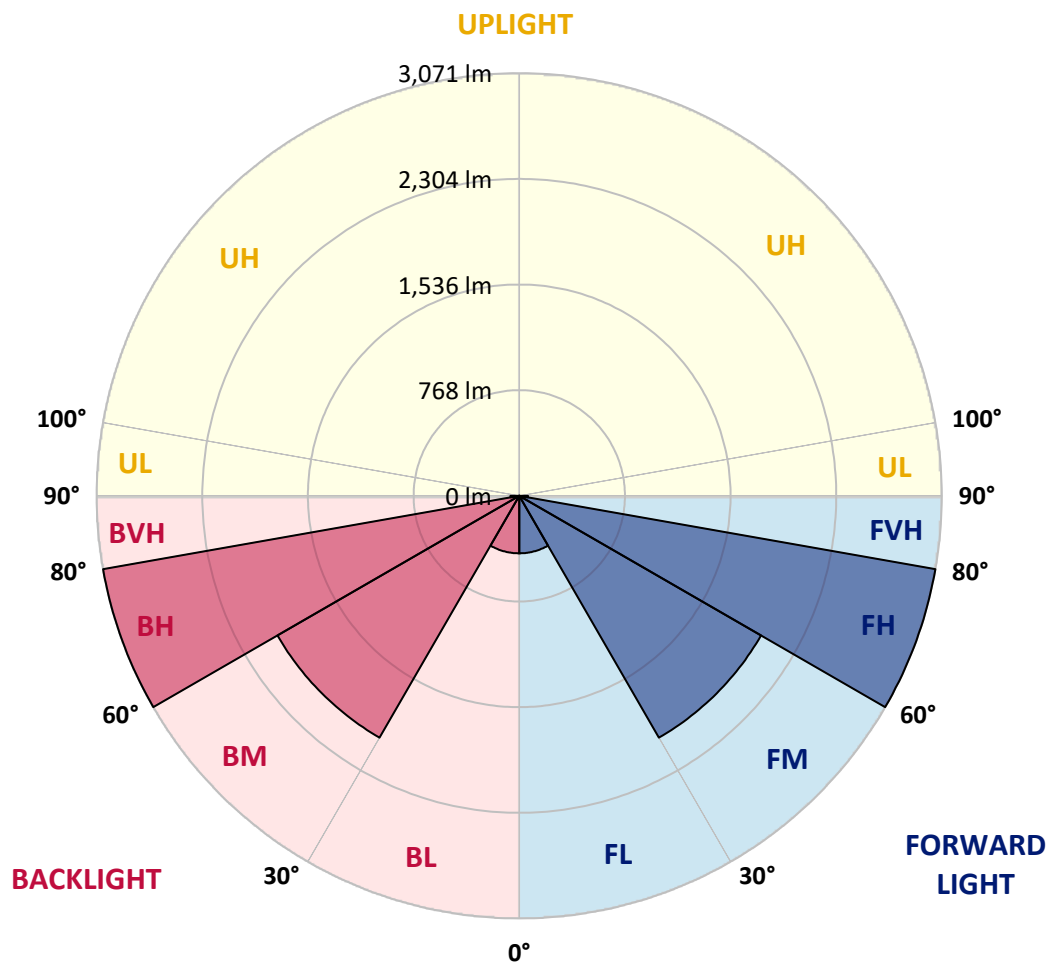
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.9	3.7			
FM	(30°-60°)	2029.5	18.2			
FH	(60°-80°)	3071.4	27.5			G2/5000
FVH	(80°-90°)	63.8	0.6			G1/100
BL	(0°-30°)	417.9	3.7	B1/500		
BM	(30°-60°)	2029.5	18.2	B2/2500		
BH	(60°-80°)	3071.4	27.5	B4/5000		G2/5000
BVH	(80°-90°)	63.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5
2.5°	1012.1	1015.1	1013.8	1011.6	1011.6	1009.8	1011.6	1012.7	1014.4	1015.6	1015.1
5°	998.8	1001.1	1000.5	998.8	999.4	997.6	998.8	1000.5	1001.6	1002.2	1002.2
7.5°	987.2	989.5	988.3	985.4	985.4	983.7	984.3	986.0	987.8	988.3	988.3
10°	984.3	986.6	983.1	978.5	976.7	974.4	975.0	976.7	980.2	982.0	982.0
12.5°	985.4	987.2	983.7	976.7	975.0	972.6	972.6	974.4	979.1	981.3	982.0
15°	988.9	990.7	985.4	977.8	976.1	974.4	973.9	976.1	981.3	985.4	986.0
17.5°	995.3	997.0	988.9	978.5	976.1	976.7	976.1	977.8	986.0	993.5	993.5
20°	1001.1	1002.2	991.3	978.5	976.1	976.7	976.1	979.6	990.0	1000.5	1001.1
22.5°	1002.9	1004.0	993.5	982.6	980.8	981.3	980.8	984.3	994.1	1004.6	1004.6
25°	1003.4	1005.1	997.0	988.3	991.3	992.4	991.3	991.8	999.4	1008.6	1008.1
27.5°	1012.1	1014.4	1006.9	999.4	1001.1	1000.5	1002.2	1004.0	1009.8	1019.1	1016.8
30°	1030.1	1031.9	1025.5	1017.9	1016.8	1012.7	1017.9	1023.8	1030.1	1038.2	1036.5
32.5°	1059.7	1063.2	1055.0	1046.9	1041.7	1039.4	1043.4	1053.3	1062.0	1070.7	1067.2
35°	1109.0	1111.4	1103.8	1088.8	1079.4	1079.4	1082.9	1095.7	1109.7	1120.6	1116.5
37.5°	1178.6	1181.6	1168.2	1150.3	1136.3	1136.3	1140.9	1154.3	1175.2	1190.8	1185.1
40°	1263.4	1267.5	1250.6	1232.0	1218.7	1216.4	1222.2	1237.3	1257.1	1276.7	1270.4
42.5°	1365.5	1370.2	1348.2	1331.9	1321.4	1321.4	1324.3	1338.2	1356.3	1380.7	1378.9
45°	1496.1	1504.3	1474.1	1457.9	1447.9	1450.3	1452.0	1464.2	1480.4	1508.3	1507.2
47.5°	1651.7	1659.8	1627.9	1611.0	1609.2	1620.3	1613.4	1622.1	1630.8	1662.7	1653.4
50°	1828.1	1842.0	1820.0	1818.8	1822.2	1842.5	1826.3	1831.0	1821.1	1841.4	1829.2
52.5°	2044.0	2064.2	2060.2	2067.2	2106.1	2147.9	2110.7	2094.5	2057.3	2063.7	2042.2
55°	2305.7	2336.5	2342.2	2384.0	2472.3	2557.6	2478.7	2413.1	2334.1	2319.7	2297.0
57.5°	2603.4	2627.8	2655.7	2741.0	2905.8	3057.3	2905.8	2760.7	2636.5	2606.9	2586.0
60°	2923.8	2953.9	2980.6	3106.6	3351.4	3564.4	3346.8	3116.4	2952.2	2912.1	2877.4
62.5°	3267.9	3306.8	3325.4	3465.2	3750.8	4005.0	3754.8	3475.7	3293.4	3250.5	3215.7
65°	3598.2	3630.0	3650.9	3800.1	4072.8	4327.7	4091.4	3816.4	3628.9	3572.6	3544.8
67.5°	3751.9	3769.3	3820.4	3989.3	4277.1	4567.9	4325.9	4007.2	3797.7	3699.1	3700.2
70°	3526.7	3491.4	3614.4	3884.9	4301.5	4715.3	4357.2	3876.7	3620.2	3460.0	3498.3
72.5°	2725.3	2664.4	2877.9	3340.5	4022.9	4621.3	4050.8	3366.6	3010.8	2685.8	2766.5
75°	1482.8	1413.7	1708.6	2293.5	3208.1	4005.5	3281.8	2359.1	1902.4	1471.8	1567.5
77.5°	418.4	392.3	630.3	1109.7	1929.7	2812.3	2003.9	1134.0	747.5	443.4	492.7
80°	128.2	124.2	168.3	334.3	819.5	1347.0	787.5	338.4	214.1	135.2	142.8
82.5°	76.1	69.6	83.5	121.9	208.9	423.1	203.2	127.1	102.1	68.5	74.3
85°	43.6	40.6	49.3	59.2	70.2	90.0	58.6	60.4	54.5	36.6	38.3
87.5°	18.0	16.3	19.2	18.6	16.3	20.9	15.7	18.6	22.0	14.6	13.3
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)