

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: P964690

Luminaire Tested: **NAV-SB3C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964690
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-SB3C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19812.2 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

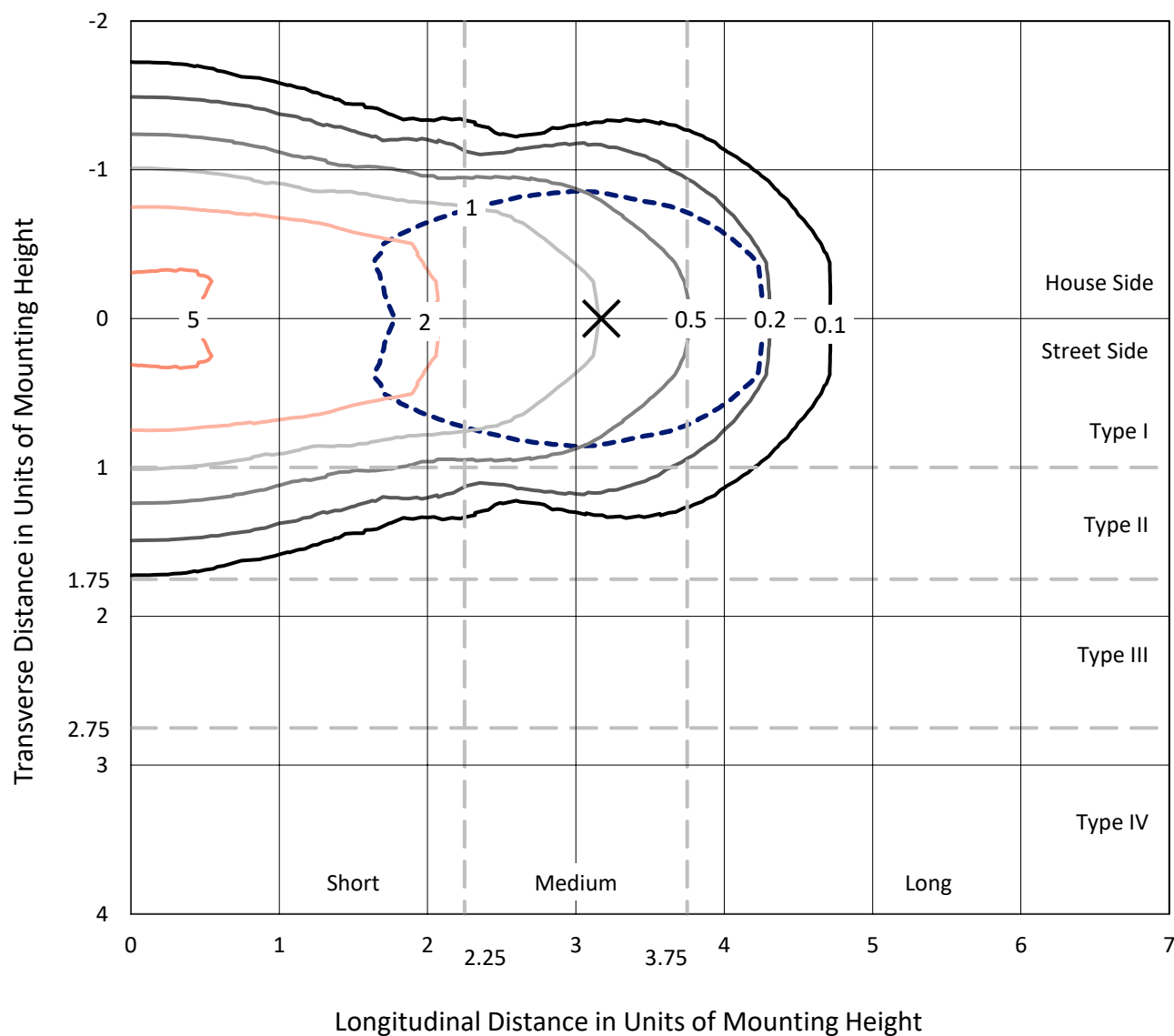
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

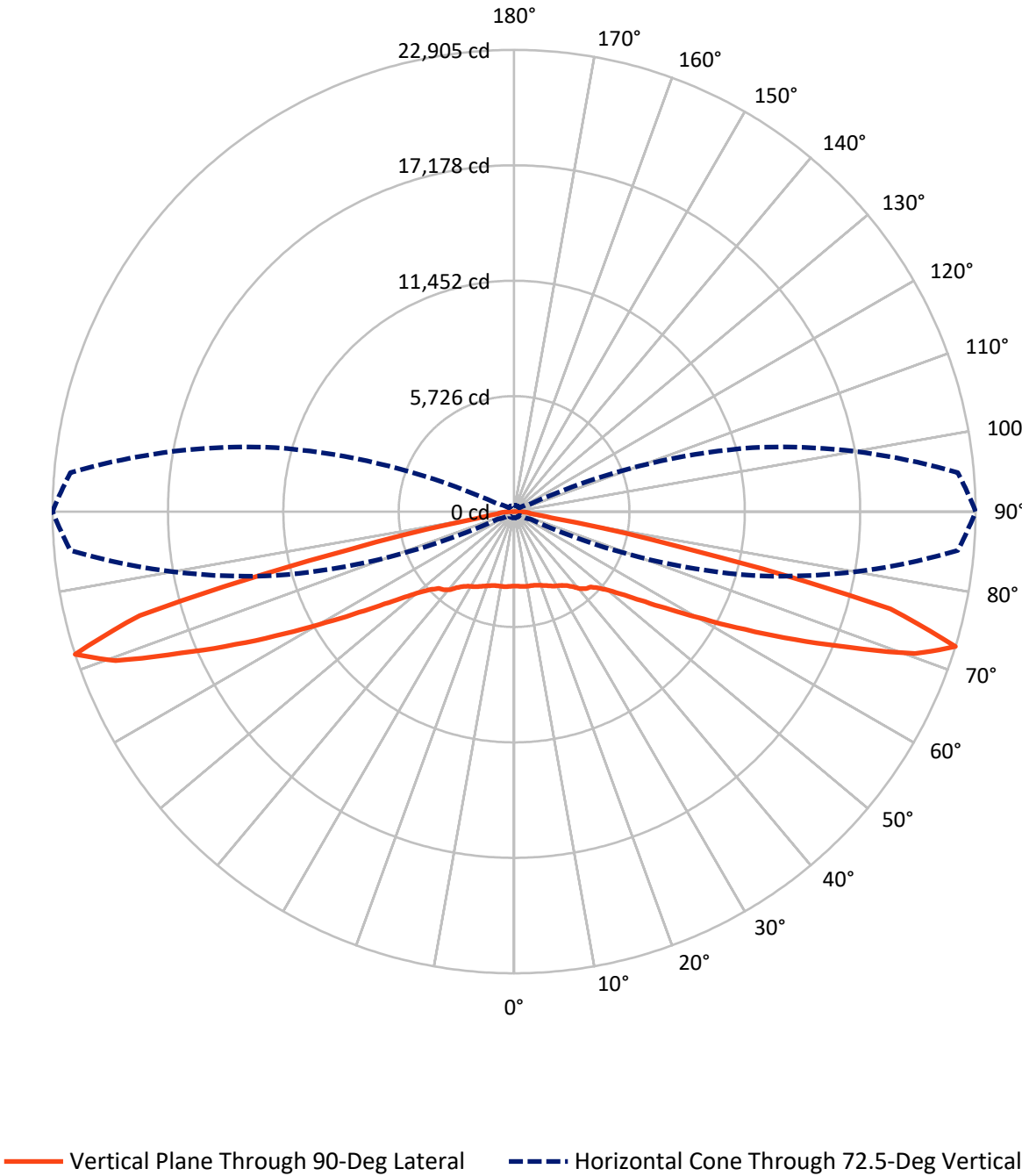
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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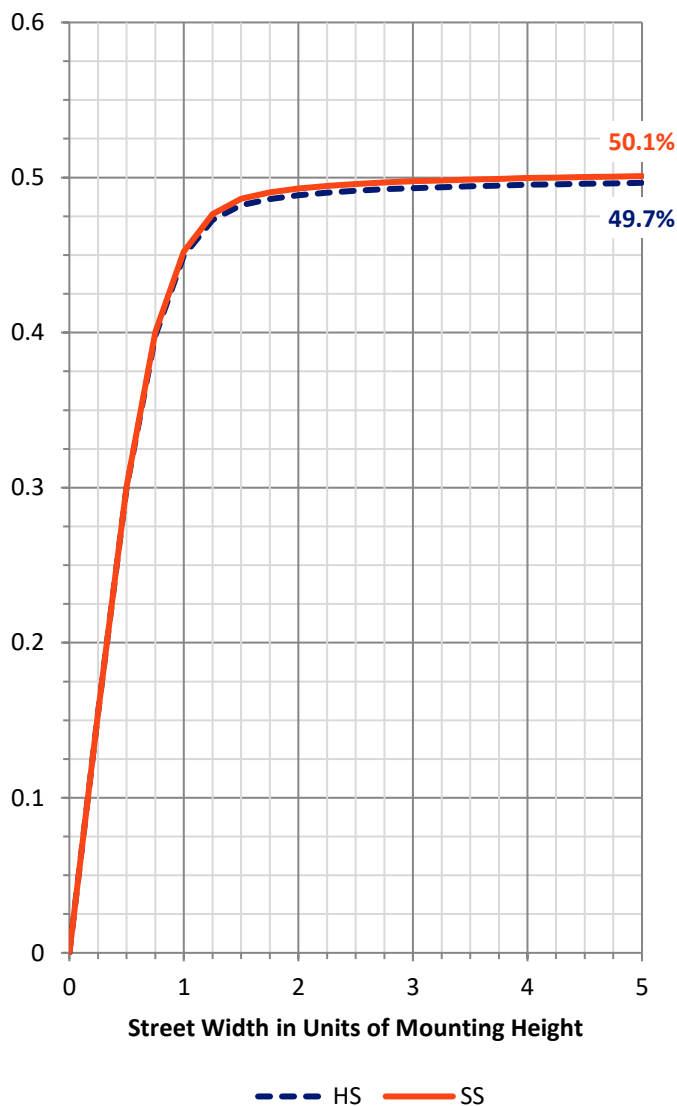
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9906.1	0.0	9906.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9906.1	0.0	9906.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	19812.2	0.0	19812.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	1.8
10°-20°	1097.6	5.5
20°-30°	1830.1	9.2
30°-40°	2517.0	12.7
40°-50°	3073.9	15.5
50°-60°	3555.3	17.9
60°-70°	4239.1	21.4
70°-80°	2958.6	14.9
80°-90°	181.7	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°	19812.2	100.0
0°-180°	19812.2	100.0

Coefficient of Utilization



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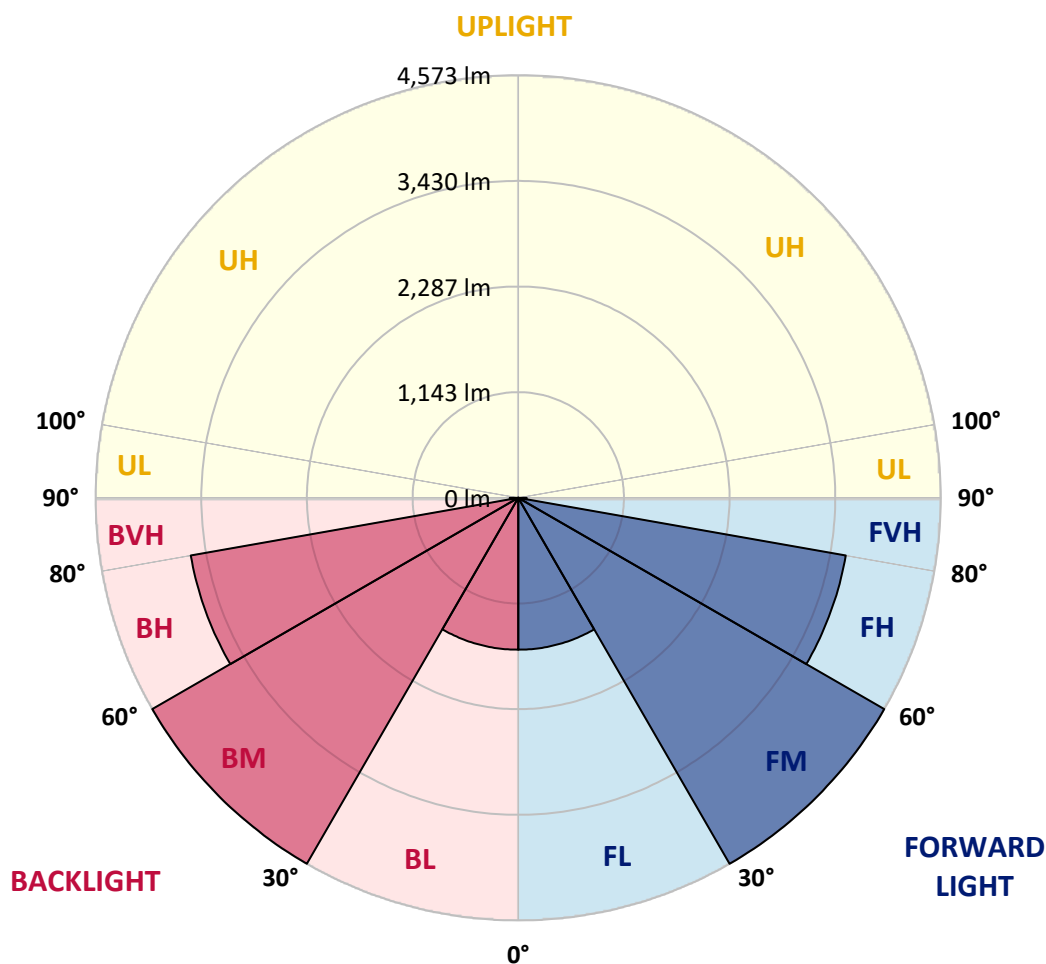
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1643.3	8.3			
FM	(30°-60°)	4573.1	23.1			
FH	(60°-80°)	3598.9	18.2			G2/5000
FVH	(80°-90°)	90.9	0.5			G1/100
BL	(0°-30°)	1643.3	8.3	B3/2500		
BM	(30°-60°)	4573.1	23.1	B3/5000		
BH	(60°-80°)	3598.9	18.2	B4/5000		G4/5000
BVH	(80°-90°)	90.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3702.1	3702.1	3702.1	3702.1	3702.1	3702.1	3702.1	3702.1	3702.1	3702.1	3702.1
2.5°	3705.3	3709.5	3709.5	3706.3	3713.7	3707.4	3707.4	3704.2	3707.4	3704.2	3704.2
5°	3724.2	3729.5	3731.6	3730.6	3740.0	3734.8	3734.8	3730.6	3731.6	3728.4	3728.4
7.5°	3760.0	3767.4	3771.6	3776.9	3790.6	3784.3	3780.0	3767.4	3762.2	3753.8	3753.8
10°	3771.6	3780.0	3793.7	3821.1	3852.7	3853.8	3841.1	3809.5	3785.3	3766.4	3763.2
12.5°	3735.8	3747.4	3775.8	3831.7	3902.2	3930.6	3910.6	3858.0	3810.5	3776.9	3771.6
15°	3690.5	3703.2	3746.4	3830.6	3934.9	4001.2	3999.0	3929.5	3853.8	3801.1	3792.7
17.5°	3620.0	3632.6	3694.7	3812.7	3960.1	4069.6	4099.1	4027.4	3921.1	3850.6	3839.0
20°	3492.6	3504.2	3590.5	3755.8	3968.5	4142.2	4219.1	4156.0	4023.2	3927.5	3909.6
22.5°	3327.3	3345.2	3446.3	3657.9	3948.5	4218.1	4356.0	4312.8	4142.2	4009.6	3985.4
25°	3150.3	3169.3	3287.3	3537.9	3896.9	4272.8	4518.2	4490.7	4277.0	4111.7	4078.1
27.5°	2997.7	3017.7	3146.1	3418.9	3816.9	4293.8	4678.2	4691.8	4440.2	4224.3	4188.6
30°	2877.7	2896.6	3033.5	3323.0	3713.7	4272.8	4818.2	4913.0	4606.6	4322.3	4270.7
32.5°	2746.1	2770.3	2914.5	3206.2	3591.6	4222.3	4940.4	5152.1	4799.3	4427.6	4362.3
35°	2579.7	2601.8	2753.5	3046.1	3431.5	4141.2	5042.5	5417.3	5075.2	4587.6	4515.0
37.5°	2377.5	2398.6	2549.2	2846.1	3272.5	4027.4	5120.4	5716.4	5403.7	4818.2	4721.4
40°	2174.3	2194.3	2335.5	2622.9	3082.0	3882.2	5147.8	6009.1	5780.6	5135.1	5032.0
42.5°	1988.0	2005.8	2135.4	2402.8	2868.2	3696.9	5112.0	6263.9	6118.6	5356.2	5223.6
45°	1816.3	1832.1	1946.9	2196.5	2646.0	3471.6	5004.6	6537.7	6520.8	5514.2	5335.2
47.5°	1620.4	1636.3	1755.2	1996.4	2423.8	3207.2	4822.4	6807.2	7080.0	5872.2	5665.9
50°	1381.5	1395.1	1517.3	1765.8	2193.3	2926.1	4569.8	7018.9	7785.4	6414.4	6155.4
52.5°	1098.2	1112.9	1231.9	1480.4	1919.5	2623.9	4237.0	7156.9	8600.4	7206.3	6887.3
55°	817.0	827.6	930.8	1154.0	1580.4	2279.6	3820.1	7195.8	9524.8	8288.7	7889.6
57.5°	592.8	599.1	665.4	831.8	1198.2	1849.0	3313.6	7094.6	10625.2	9676.5	9174.3
60°	480.1	482.3	502.2	575.9	832.9	1362.5	2701.8	6747.2	11819.2	11465.4	10832.6
62.5°	435.9	435.9	441.2	461.1	563.3	899.2	1961.6	6027.0	13099.6	13726.1	12878.5
65°	405.4	405.4	407.4	417.0	444.3	572.8	1238.3	4854.0	14178.8	16374.2	15302.3
67.5°	378.0	379.0	378.0	381.2	397.0	423.3	718.1	3352.6	14760.1	19118.2	17961.0
70°	349.5	351.7	346.4	346.4	359.1	360.1	449.6	1838.4	14277.8	21417.8	21113.5
72.5°	315.9	319.1	310.6	308.5	318.0	313.8	337.9	882.3	12258.3	22104.3	22904.5
75°	286.4	290.6	271.6	266.4	266.4	263.2	274.8	452.7	7955.9	18031.5	19286.6
77.5°	260.0	268.4	238.0	221.1	216.9	207.5	224.3	277.0	3480.0	8465.6	8289.8
80°	214.8	226.4	195.9	175.9	168.5	158.0	176.9	193.7	1035.0	1965.8	1882.6
82.5°	160.0	165.3	139.0	125.3	119.0	111.6	132.6	134.8	336.9	696.0	786.6
85°	102.1	104.2	85.3	73.7	70.5	67.3	84.3	73.7	128.4	511.7	743.3
87.5°	35.8	41.1	32.6	29.5	31.6	26.3	38.9	22.1	35.8	361.1	447.5
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)