

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: P965248

Luminaire Tested: **NAV-SB3D-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965248
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-SB3D-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27818.5 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

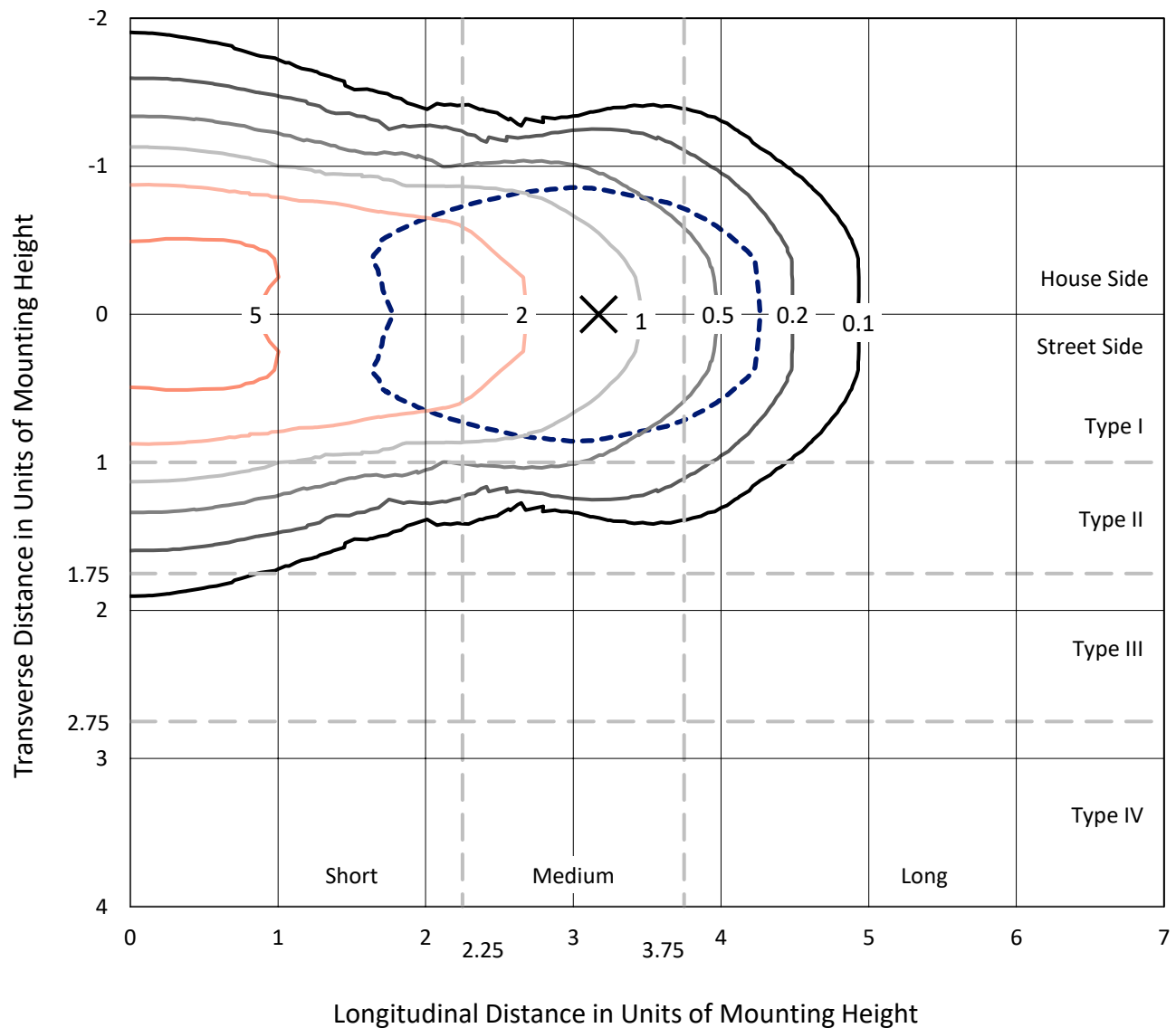
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

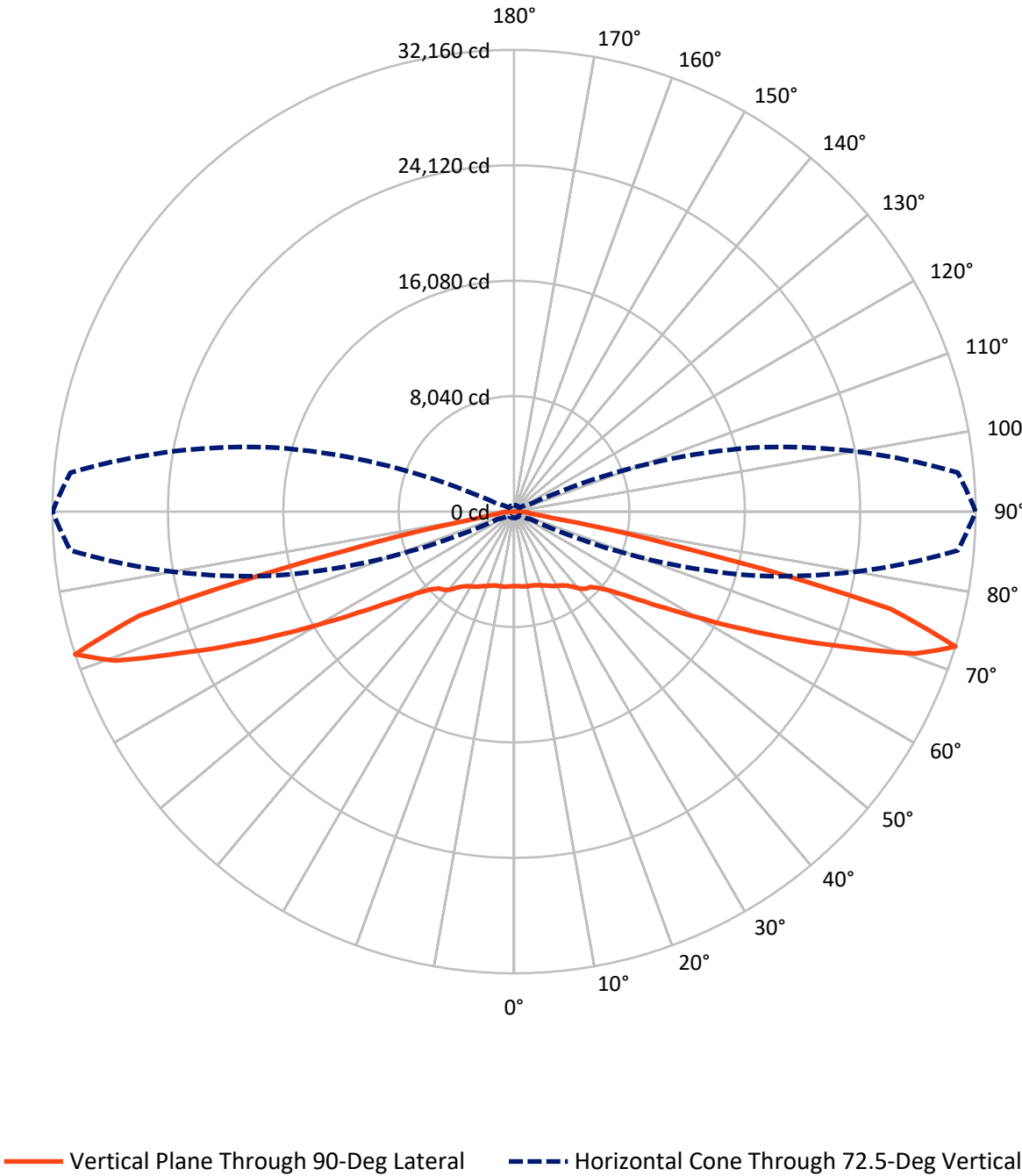
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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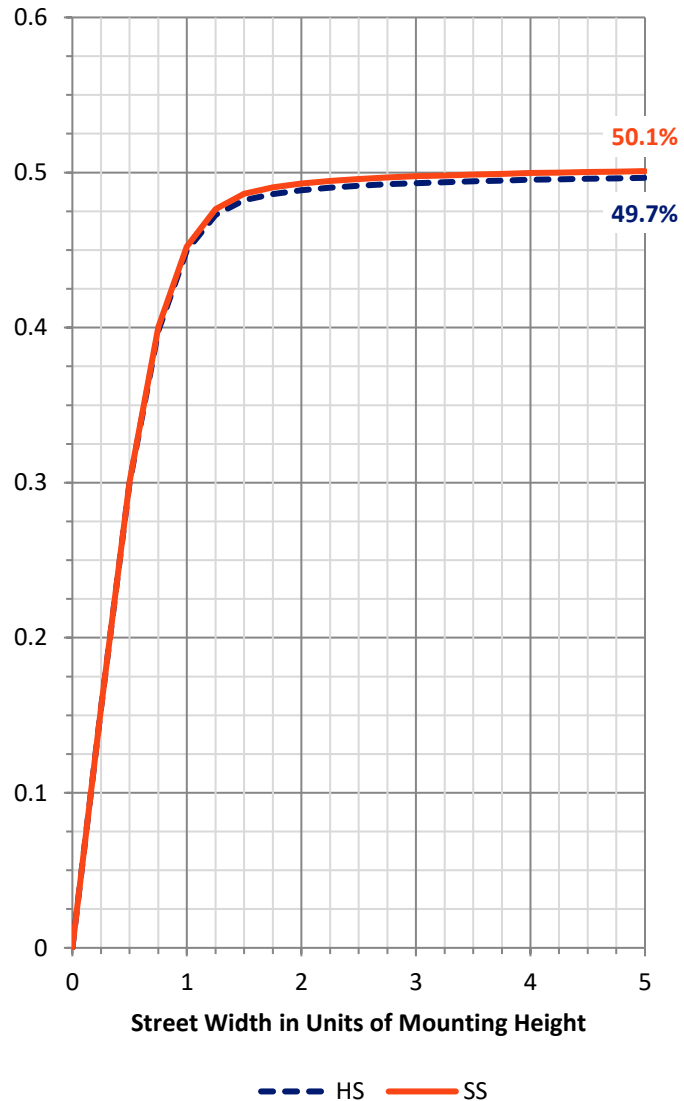
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13909.2	0.0	13909.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13909.2	0.0	13909.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	27818.5	0.0	27818.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.0	1.8
10°-20°	1541.1	5.5
20°-30°	2569.7	9.2
30°-40°	3534.1	12.7
40°-50°	4316.1	15.5
50°-60°	4992.0	17.9
60°-70°	5952.2	21.4
70°-80°	4154.2	14.9
80°-90°	255.2	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°	27818.5	100.0
0°-180°	27818.5	100.0

Coefficient of Utilization



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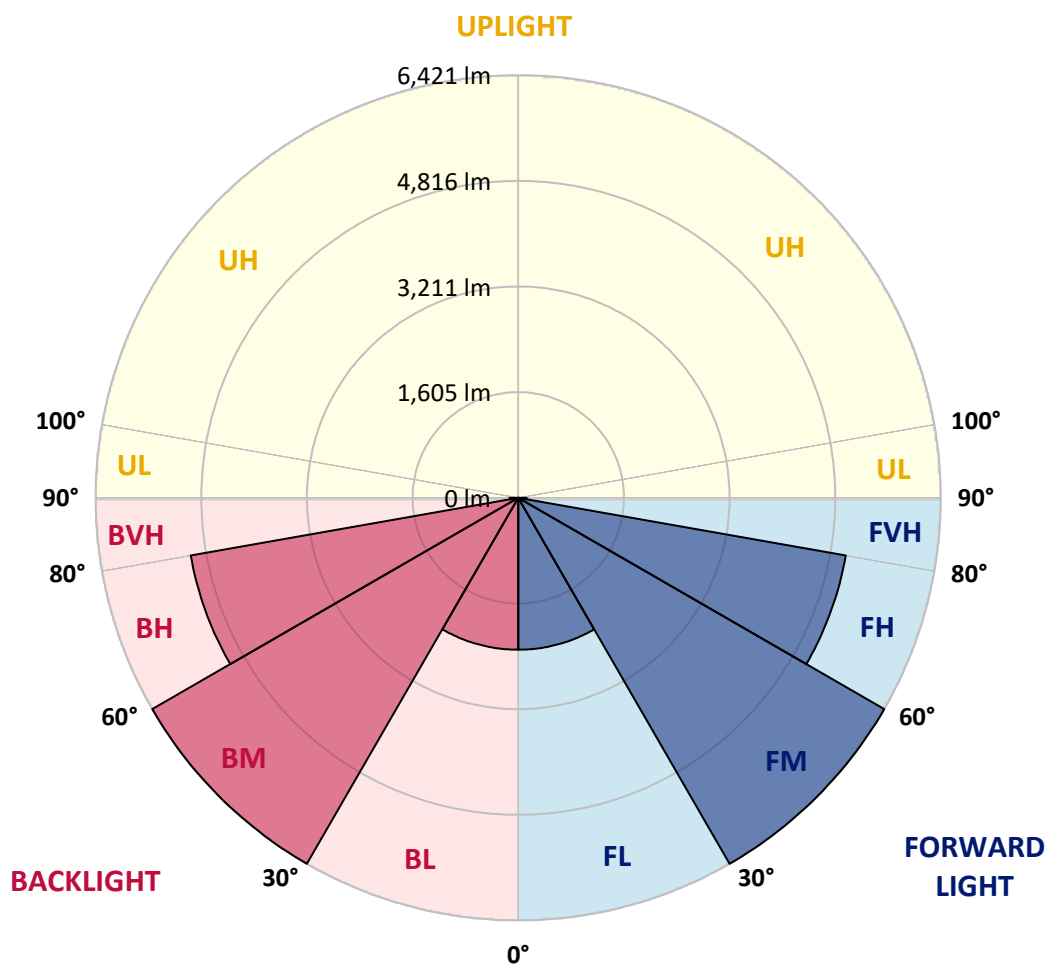
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2307.4	8.3			
FM	(30°-60°)	6421.1	23.1			
FH	(60°-80°)	5053.2	18.2			G3/7500
FVH	(80°-90°)	127.6	0.5			G2/225
BL	(0°-30°)	2307.4	8.3	B3/2500		
BM	(30°-60°)	6421.1	23.1	B4/8500		
BH	(60°-80°)	5053.2	18.2	B5		G5
BVH	(80°-90°)	127.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5198.2	5198.2	5198.2	5198.2	5198.2	5198.2	5198.2	5198.2	5198.2	5198.2	5198.2
2.5°	5202.6	5208.5	5208.5	5204.1	5214.5	5205.6	5205.6	5201.2	5205.6	5201.2	5201.2
5°	5229.2	5236.6	5239.6	5238.1	5251.4	5244.0	5244.0	5238.1	5239.6	5235.2	5235.2
7.5°	5279.5	5289.8	5295.8	5303.1	5322.4	5313.5	5307.6	5289.8	5282.4	5270.7	5270.7
10°	5295.8	5307.6	5326.8	5365.3	5409.6	5411.1	5393.3	5349.0	5314.9	5288.4	5284.0
12.5°	5245.5	5261.7	5301.7	5380.0	5479.0	5519.0	5490.9	5417.0	5350.5	5303.1	5295.8
15°	5181.9	5199.6	5260.3	5378.6	5525.0	5618.0	5615.1	5517.5	5411.1	5337.2	5325.3
17.5°	5082.9	5100.6	5187.8	5353.4	5560.4	5714.2	5755.6	5655.0	5505.7	5406.7	5390.4
20°	4904.0	4920.2	5041.5	5273.6	5572.2	5816.2	5924.1	5835.4	5649.1	5514.6	5489.4
22.5°	4671.8	4697.0	4838.9	5136.1	5544.1	5922.7	6116.3	6055.7	5816.2	5629.9	5595.9
25°	4423.5	4450.1	4615.7	4967.6	5471.7	5999.5	6343.9	6305.5	6005.4	5773.3	5726.0
27.5°	4209.1	4237.2	4417.5	4800.5	5359.3	6029.0	6568.7	6587.9	6234.6	5931.5	5881.2
30°	4040.6	4067.2	4259.4	4665.9	5214.5	5999.5	6765.3	6898.4	6468.2	6069.0	5996.6
32.5°	3855.7	3889.8	4092.3	4501.8	5042.9	5928.5	6936.8	7233.9	6738.8	6216.8	6125.2
35°	3622.1	3653.2	3866.1	4277.1	4818.2	5814.7	7080.2	7606.5	7126.1	6441.5	6339.5
37.5°	3338.3	3367.8	3579.3	3996.2	4595.0	5655.0	7189.7	8026.5	7587.4	6765.3	6629.3
40°	3053.0	3081.0	3279.2	3682.8	4327.3	5451.0	7228.1	8437.4	8116.6	7210.4	7065.4
42.5°	2791.3	2816.4	2998.2	3373.8	4027.2	5190.8	7177.8	8795.2	8591.1	7520.8	7334.5
45°	2550.3	2572.4	2733.7	3084.0	3715.3	4874.4	7027.0	9179.6	9155.9	7742.5	7491.2
47.5°	2275.3	2297.5	2464.5	2803.1	3403.4	4503.3	6771.3	9558.1	9941.0	8245.2	7955.4
50°	1939.7	1958.9	2130.5	2479.4	3079.6	4108.6	6416.4	9855.3	10931.5	9006.7	8642.9
52.5°	1542.0	1562.7	1729.8	2078.7	2695.2	3684.3	5949.2	10048.9	12075.8	10118.4	9670.5
55°	1147.3	1162.0	1307.0	1620.3	2219.1	3200.8	5363.7	10103.6	13373.9	11638.3	11077.9
57.5°	832.4	841.2	934.4	1168.0	1682.4	2596.1	4652.7	9961.7	14918.9	13586.8	12881.6
60°	674.1	677.1	705.2	808.7	1169.4	1913.1	3793.6	9473.8	16595.5	16098.6	15210.2
62.5°	612.0	612.0	619.5	647.6	791.0	1262.6	2754.3	8462.6	18393.2	19272.9	18082.7
65°	569.2	569.2	572.2	585.5	623.9	804.3	1738.6	6815.6	19908.6	22991.2	21486.2
67.5°	530.7	532.3	530.7	535.2	557.4	594.3	1008.3	4707.3	20724.7	26843.9	25219.2
70°	490.9	493.8	486.4	486.4	504.2	505.6	631.3	2581.4	20047.6	30072.9	29645.6
72.5°	443.5	447.9	436.1	433.2	446.5	440.5	474.6	1238.9	17211.9	31036.8	32160.4
75°	402.1	408.1	381.4	374.0	374.0	369.6	385.9	635.7	11171.1	25318.2	27080.5
77.5°	365.2	377.0	334.2	310.5	304.5	291.2	314.9	388.8	4886.3	11886.6	11639.7
80°	301.6	317.9	275.0	246.9	236.6	221.8	248.4	272.0	1453.3	2760.2	2643.5
82.5°	224.7	232.2	195.2	175.9	167.1	156.7	186.2	189.2	473.1	977.2	1104.4
85°	143.4	146.4	119.7	103.5	99.0	94.6	118.3	103.5	180.4	718.5	1043.8
87.5°	50.2	57.7	45.8	41.4	44.4	37.0	54.7	31.1	50.2	507.1	628.3
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)