

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: P971448

Luminaire Tested: **NAV-SB6D-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971448
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-SB6D-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66199.6 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 440.1
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

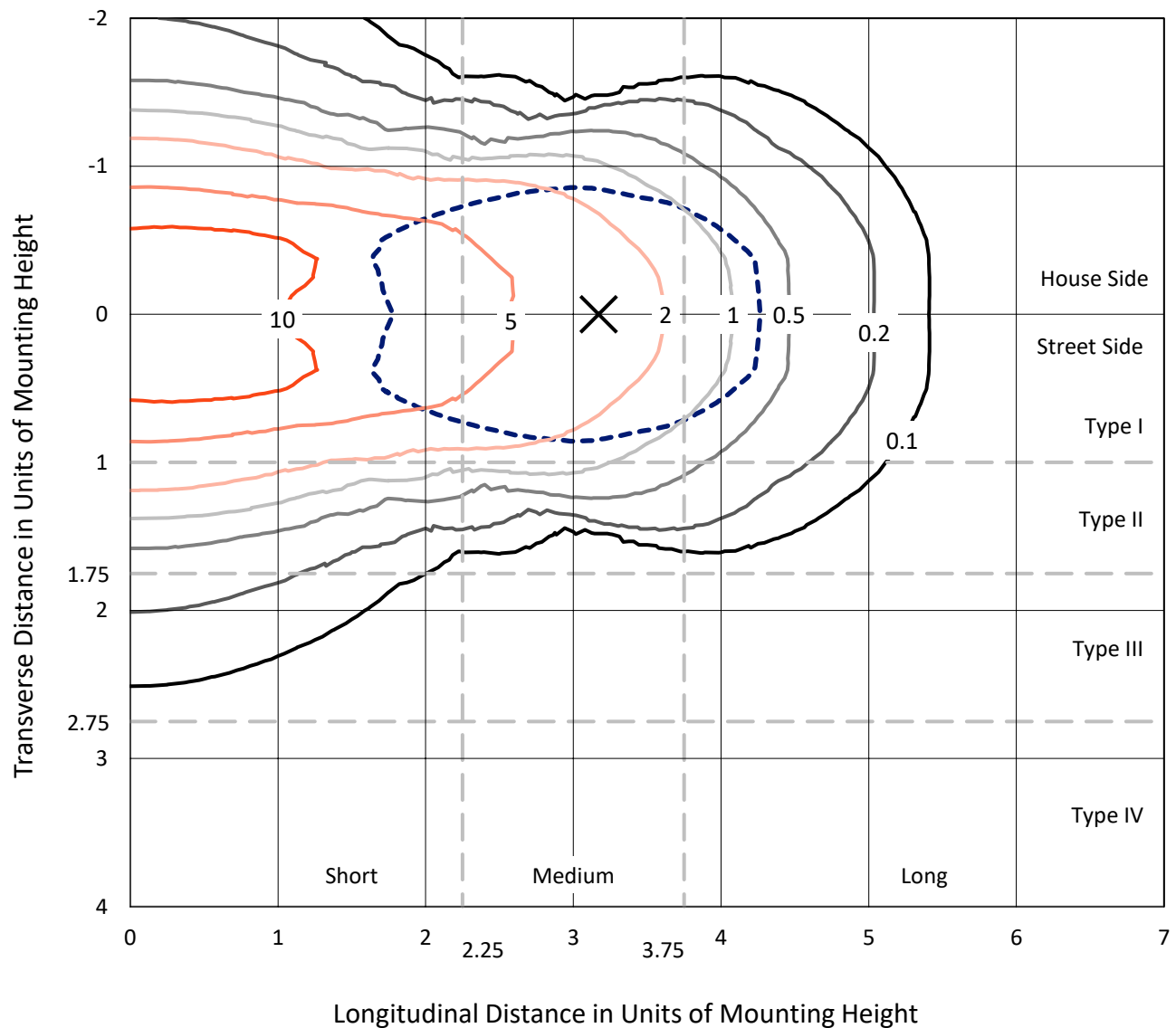


REPORT NUMBER: P971448

CATALOG NUMBER: NAV-SB6D-740-U-T1

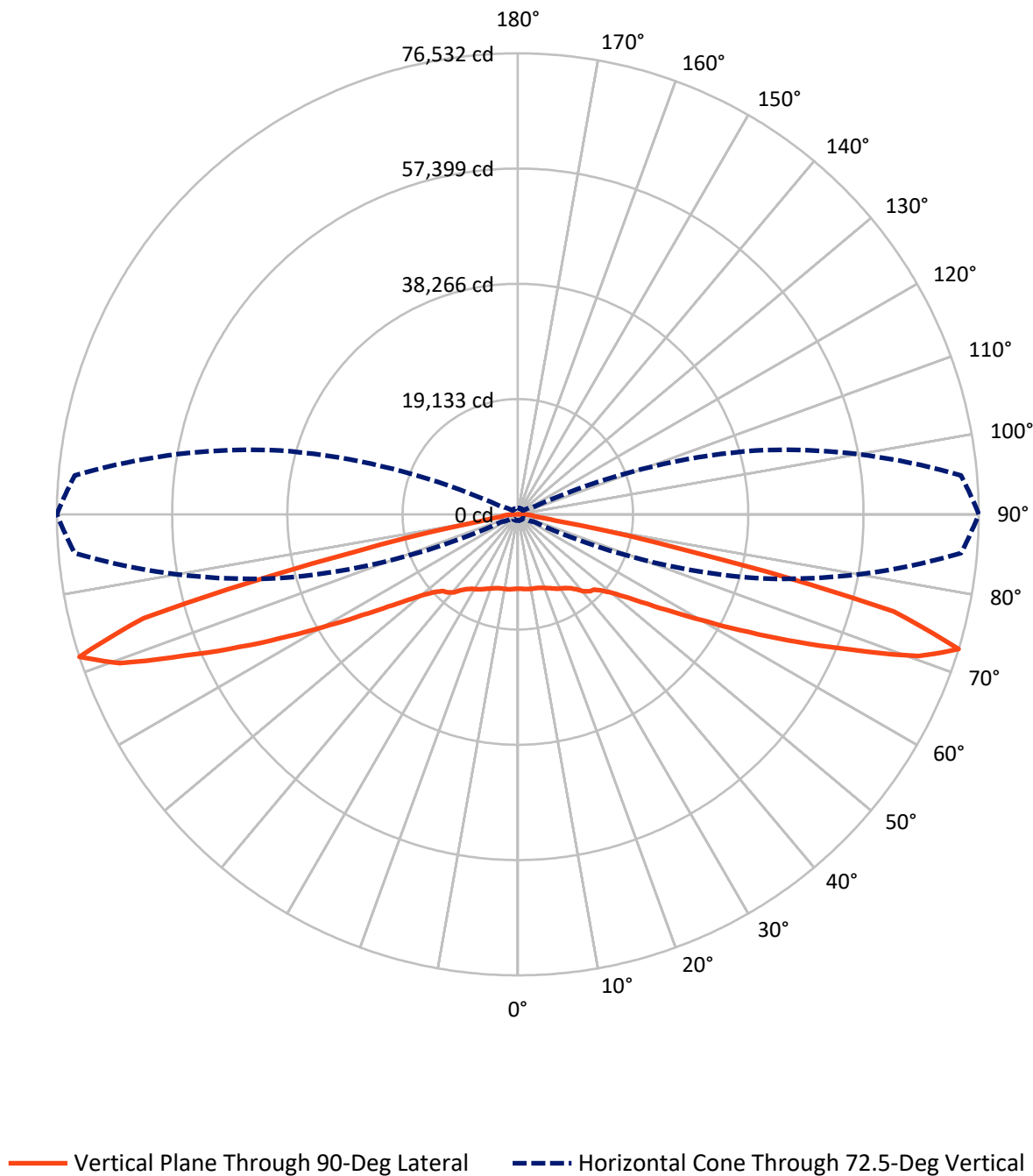
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



REPORT NUMBER: P971448
CATALOG NUMBER: NAV-SB6D-740-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P971448

CATALOG NUMBER: NAV-SB6D-740-U-T1

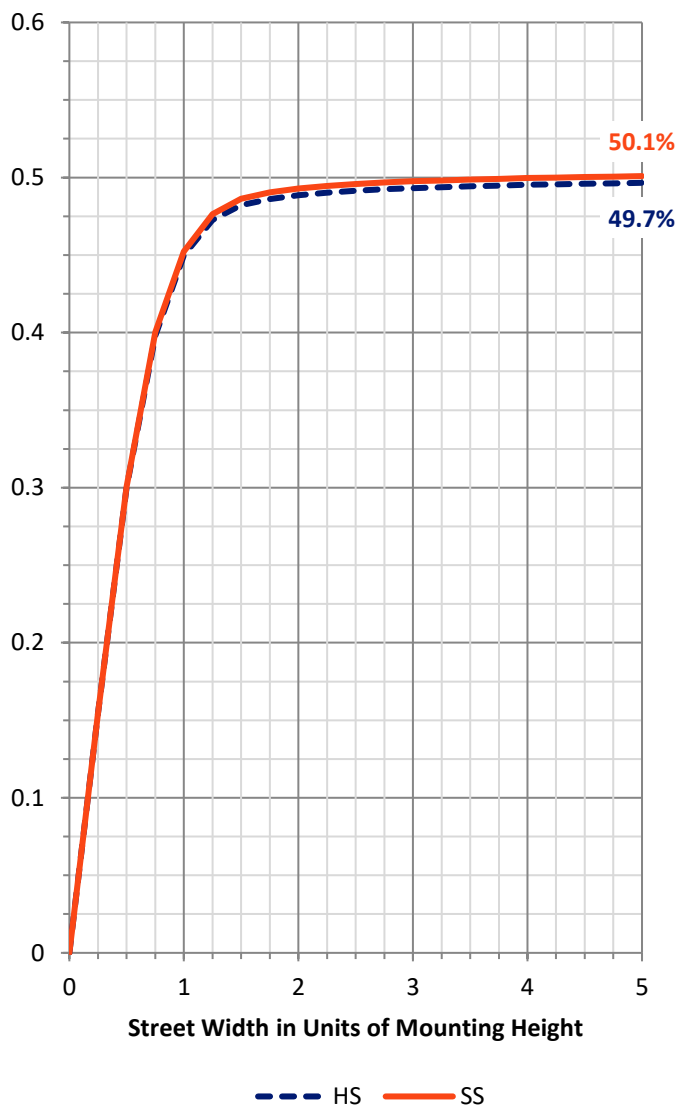
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33099.8	0.0	33099.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33099.8	0.0	33099.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	66199.6	0.0	66199.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1199.4	1.8
10°-20°	3667.4	5.5
20°-30°	6115.0	9.2
30°-40°	8410.1	12.7
40°-50°	10271.0	15.5
50°-60°	11879.5	17.9
60°-70°	14164.3	21.4
70°-80°	9885.8	14.9
80°-90°	607.2	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°	66199.6	100.0
0°-180°	66199.6	100.0

Coefficient of Utilization



REPORT NUMBER: P971448

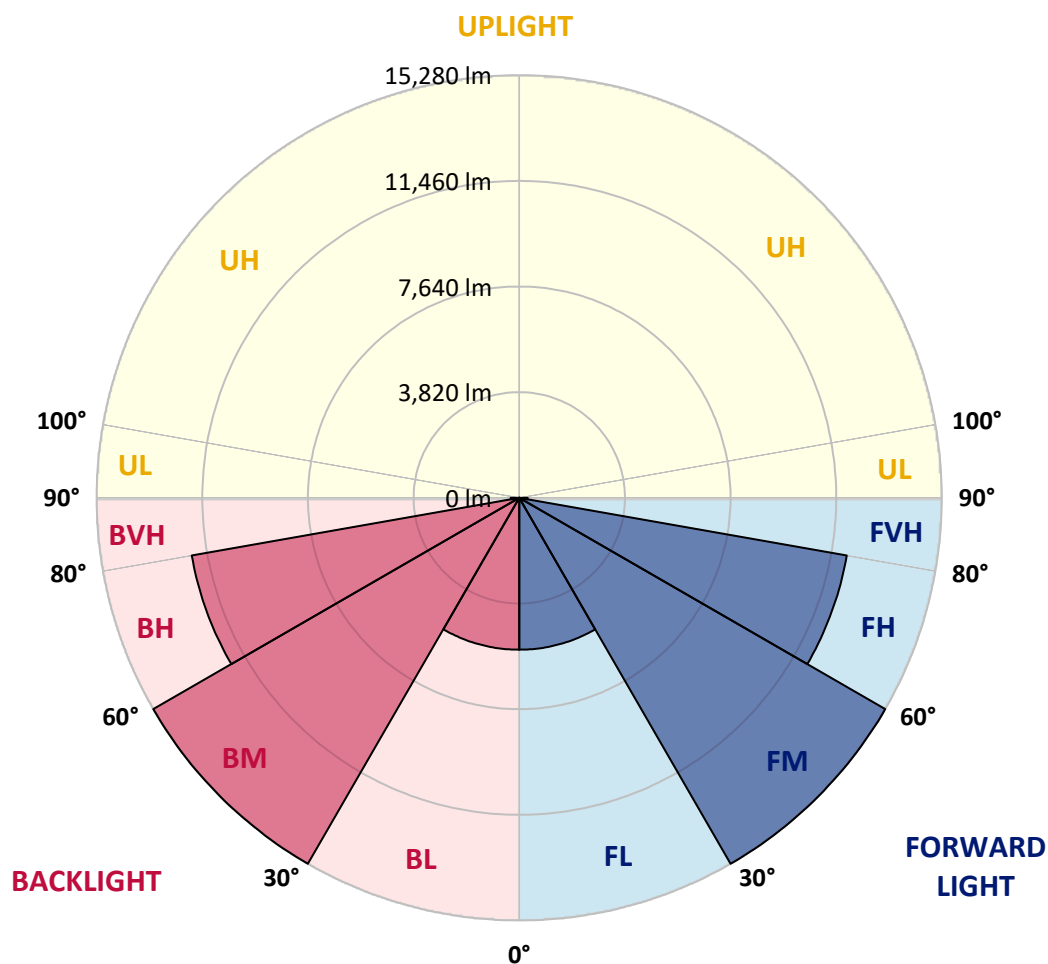
CATALOG NUMBER: NAV-SB6D-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5490.9	8.3			
FM	(30°-60°)	15280.3	23.1			
FH	(60°-80°)	12025.0	18.2			G5
FVH	(80°-90°)	303.6	0.5			G3/500
BL	(0°-30°)	5490.9	8.3	B5		
BM	(30°-60°)	15280.3	23.1	B5		
BH	(60°-80°)	12025.0	18.2	B5		G5
BVH	(80°-90°)	303.6	0.5			G3/500
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



REPORT NUMBER: P971448

CATALOG NUMBER: NAV-SB6D-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12370.1	12370.1	12370.1	12370.1	12370.1	12370.1	12370.1	12370.1	12370.1	12370.1	12370.1
2.5°	12380.7	12394.7	12394.7	12384.2	12408.8	12387.7	12387.7	12377.2	12387.7	12377.2	12377.2
5°	12444.0	12461.5	12468.6	12465.1	12496.8	12479.2	12479.2	12465.1	12468.6	12458.1	12458.1
7.5°	12563.6	12588.2	12602.3	12619.9	12665.6	12644.5	12630.5	12588.2	12570.6	12542.5	12542.5
10°	12602.3	12630.5	12676.2	12767.7	12873.2	12876.8	12834.5	12729.0	12648.1	12584.7	12574.2
12.5°	12482.7	12521.4	12616.4	12802.9	13038.5	13133.5	13066.7	12890.8	12732.4	12619.9	12602.3
15°	12331.4	12373.6	12517.9	12799.3	13147.7	13369.3	13362.2	13130.0	12876.8	12700.8	12672.7
17.5°	12095.7	12137.8	12345.5	12739.5	13232.0	13598.0	13696.5	13457.2	13101.9	12866.2	12827.5
20°	11669.9	11708.7	11997.2	12549.5	13260.2	13840.7	14097.5	13886.5	13443.2	13123.0	13063.2
22.5°	11117.6	11177.4	11515.2	12222.3	13193.4	14094.1	14554.9	14410.7	13840.7	13397.5	13316.5
25°	10526.5	10589.9	10983.9	11821.2	13021.0	14277.0	15096.7	15005.3	14291.1	13738.7	13626.1
27.5°	10016.4	10083.2	10512.5	11423.7	12753.6	14347.3	15631.5	15677.3	14836.4	14115.2	13995.6
30°	9615.3	9678.7	10136.0	11103.5	12408.8	14277.0	16099.5	16416.1	15392.2	14442.4	14269.9
32.5°	9175.6	9256.5	9738.4	10713.0	12000.7	14108.1	16507.5	17214.7	16036.1	14794.1	14576.0
35°	8619.6	8693.5	9200.2	10178.2	11466.0	13837.2	16848.8	18101.3	16957.9	15329.0	15086.2
37.5°	7944.2	8014.6	8517.6	9509.7	10934.7	13457.2	17109.2	19100.5	18055.6	16099.5	15775.8
40°	7265.1	7332.0	7803.4	8764.0	10297.9	12971.7	17200.6	20078.5	19315.1	17158.4	16813.6
42.5°	6642.4	6702.3	7134.9	8028.6	9583.6	12352.5	17081.0	20930.0	20444.4	17897.2	17453.9
45°	6068.9	6121.7	6505.2	7339.0	8841.3	11599.6	16722.2	21844.7	21788.4	18425.0	17826.9
47.5°	5414.6	5467.3	5864.8	6670.6	8098.9	10716.6	16113.5	22745.4	23656.6	19621.2	18931.6
50°	4615.9	4661.7	5069.8	5900.1	7328.4	9777.2	15269.1	23452.5	26013.8	21433.1	20567.5
52.5°	3669.5	3718.8	4116.3	4946.6	6413.7	8767.4	14157.4	23913.5	28736.9	24078.8	23012.8
55°	2730.2	2765.3	3110.2	3855.9	5280.9	7617.0	12764.1	24043.6	31825.9	27695.5	26362.1
57.5°	1980.8	2001.8	2223.5	2779.4	4003.8	6178.0	11071.8	23705.8	35502.5	32332.5	30654.4
60°	1604.3	1611.3	1678.2	1924.4	2782.9	4552.6	9027.8	22544.8	39492.1	38310.0	36195.5
62.5°	1456.5	1456.5	1474.2	1541.0	1882.2	3004.6	6554.5	20138.4	43770.3	45863.6	43031.4
65°	1354.5	1354.5	1361.5	1393.2	1484.7	1913.9	4137.4	16219.1	47376.5	54712.0	51130.5
67.5°	1263.0	1266.6	1263.0	1273.6	1326.4	1414.3	2399.4	11202.0	49318.6	63880.6	60014.0
70°	1168.1	1175.1	1157.5	1157.5	1199.8	1203.2	1502.2	6142.8	47707.2	71564.4	70547.6
72.5°	1055.4	1066.0	1037.9	1030.8	1062.5	1048.5	1129.3	2948.3	40959.2	73858.2	76532.0
75°	956.9	971.0	907.7	890.1	890.1	879.6	918.3	1512.8	26583.8	60249.7	64443.4
77.5°	869.0	897.2	795.1	738.8	724.8	693.1	749.4	925.3	11627.7	28286.6	27699.0
80°	717.7	756.4	654.4	587.5	562.9	527.8	591.0	647.4	3458.5	6568.5	6290.6
82.5°	534.7	552.4	464.4	418.7	397.6	372.9	443.3	450.3	1125.9	2325.5	2628.1
85°	341.2	348.3	285.0	246.3	235.7	225.2	281.5	246.3	429.3	1709.9	2483.9
87.5°	119.6	137.2	109.1	98.5	105.6	87.9	130.2	73.9	119.6	1206.7	1495.3
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)