

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: P963625

Luminaire Tested: **NAV-SB3A-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12353.3 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 84.7
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

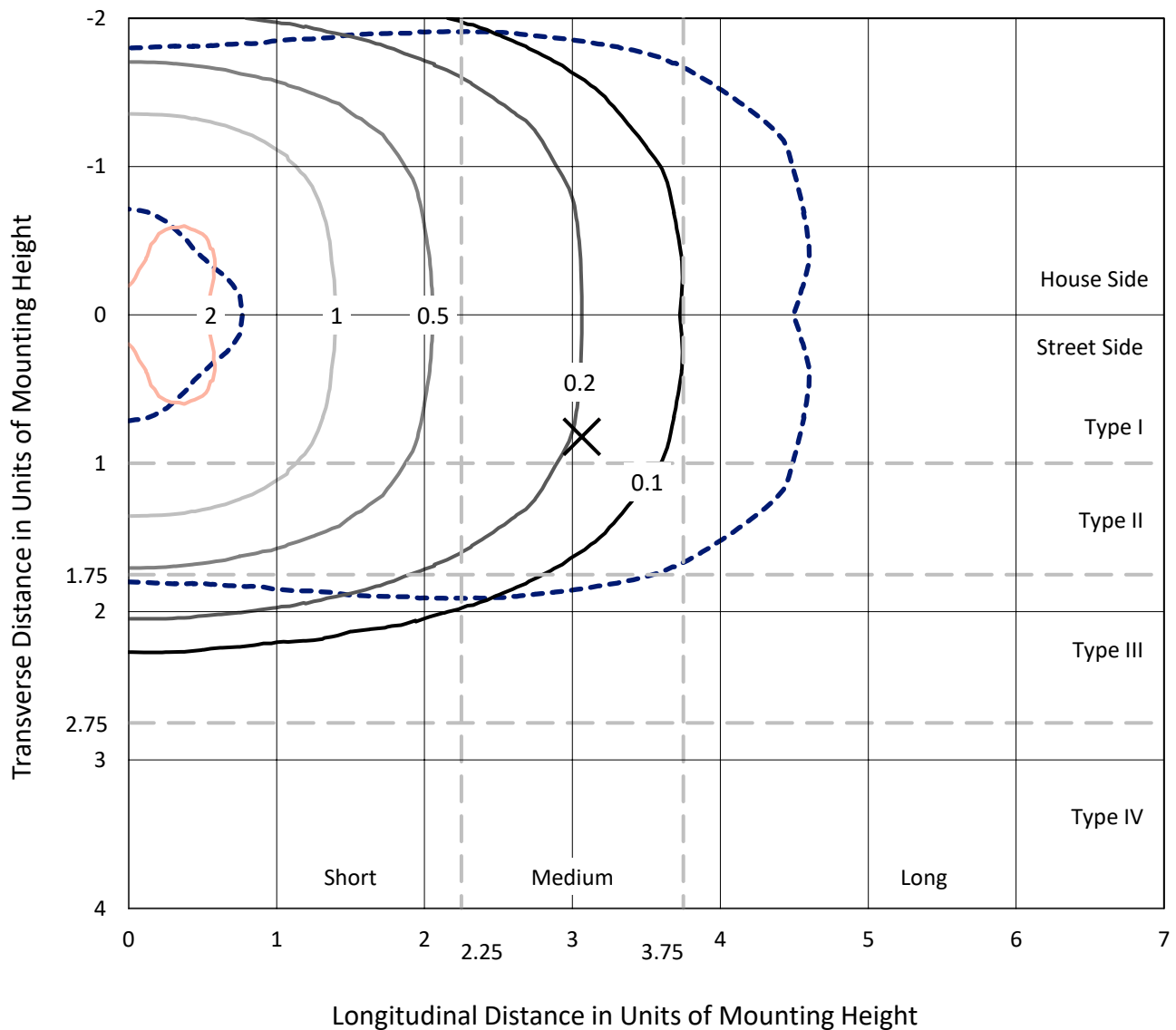


REPORT NUMBER: P963625

CATALOG NUMBER: NAV-SB3A-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

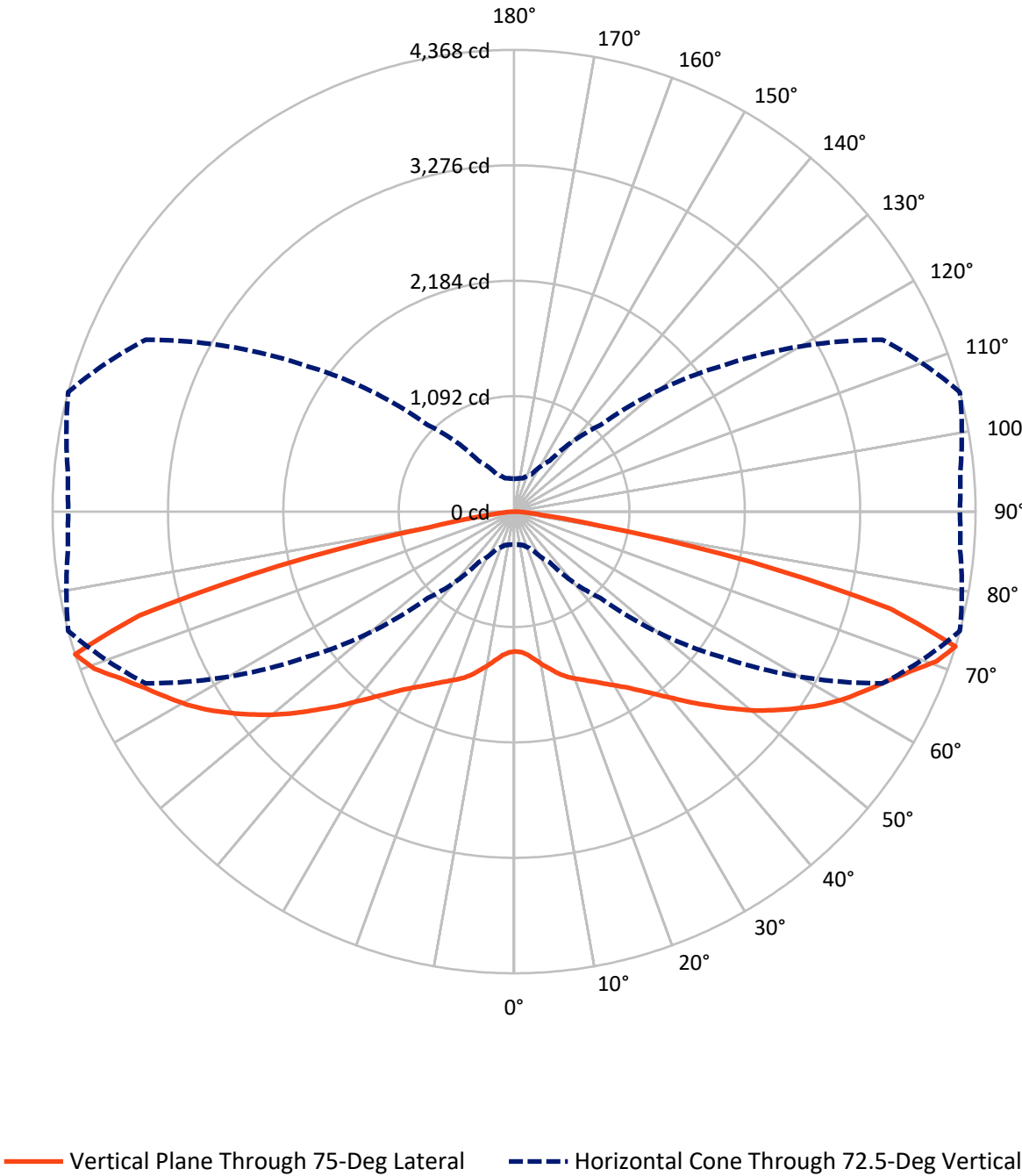
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Medium - N/A

REPORT NUMBER: P963625
CATALOG NUMBER: NAV-SB3A-827-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P963625

CATALOG NUMBER: NAV-SB3A-827-U-RW

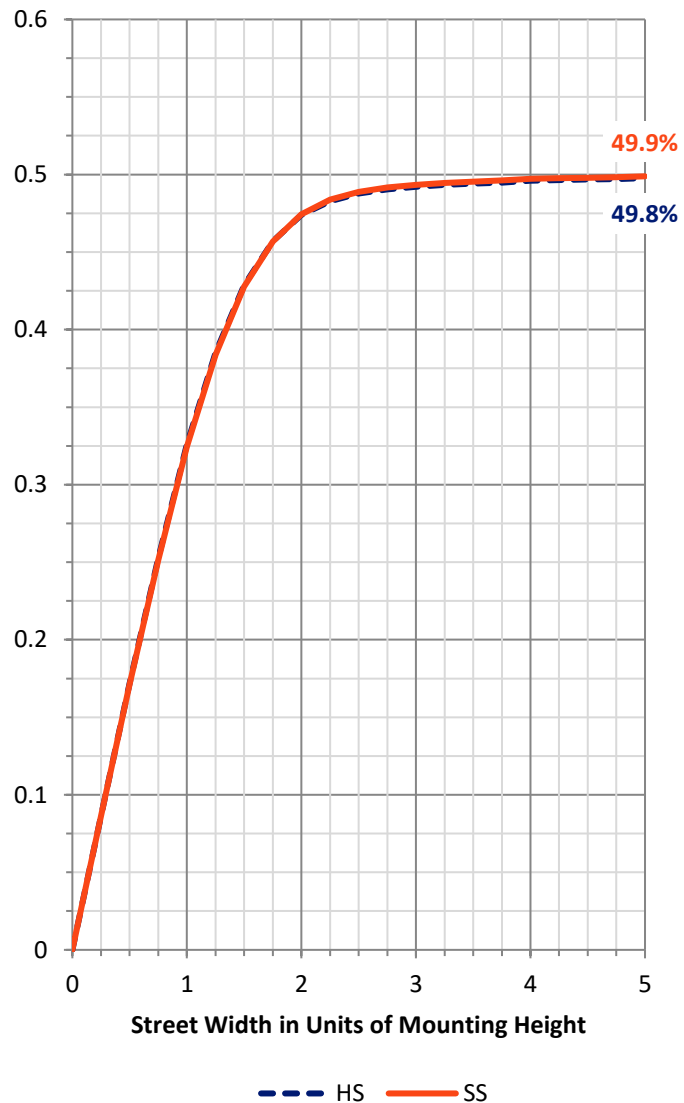
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6176.7	0.0	6176.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6176.7	0.0	6176.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12353.3	0.0	12353.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.0
10°-20°	427.5	3.5
20°-30°	826.1	6.7
30°-40°	1394.9	11.3
40°-50°	2212.2	17.9
50°-60°	2961.9	24.0
60°-70°	2818.8	22.8
70°-80°	1470.9	11.9
80°-90°	111.3	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°	12353.3	100.0
0°-180°	12353.3	100.0

Coefficient of Utilization



REPORT NUMBER: P963625

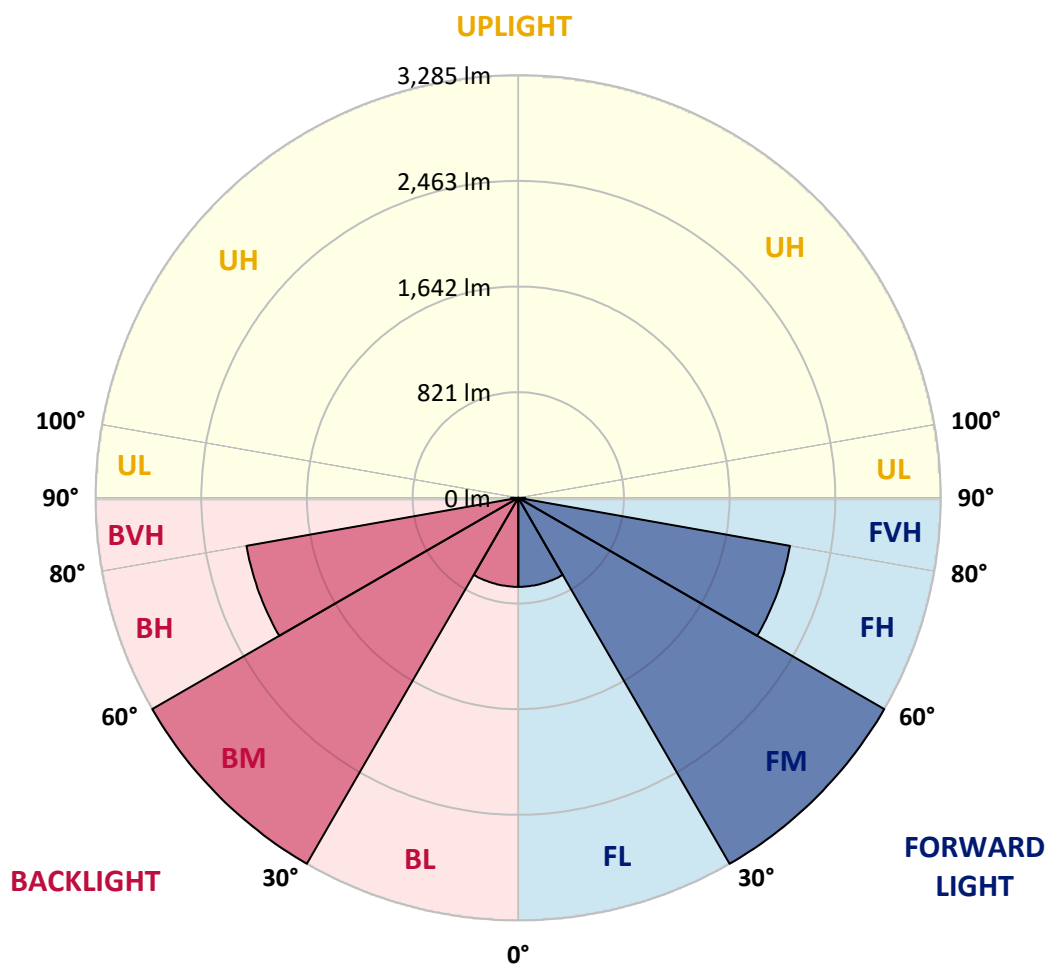
CATALOG NUMBER: NAV-SB3A-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	691.6	5.6			
FM	(30°-60°)	3284.5	26.6			
FH	(60°-80°)	2144.8	17.4			G2/5000
FVH	(80°-90°)	55.7	0.5			G1/100
BL	(0°-30°)	691.6	5.6	B2/1000		
BM	(30°-60°)	3284.5	26.6	B3/5000		
BH	(60°-80°)	2144.8	17.4	B3/2500		G3/2500
BVH	(80°-90°)	55.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



REPORT NUMBER: P963625

CATALOG NUMBER: NAV-SB3A-827-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3
2.5°	1323.3	1322.0	1323.3	1324.5	1323.9	1323.9	1327.1	1328.9	1332.7	1332.1	1331.5
5°	1314.5	1313.8	1318.9	1324.5	1328.9	1336.5	1345.9	1352.9	1361.7	1363.7	1363.7
7.5°	1310.1	1308.1	1316.9	1327.1	1340.9	1359.9	1378.1	1397.1	1412.1	1417.3	1418.5
10°	1313.1	1313.8	1325.7	1344.7	1366.7	1393.3	1419.1	1451.3	1472.7	1477.7	1482.9
12.5°	1327.7	1326.5	1346.6	1376.9	1407.1	1440.5	1470.9	1506.1	1529.5	1541.5	1546.5
15°	1354.1	1351.7	1380.1	1424.9	1468.9	1508.1	1532.7	1566.1	1593.3	1608.3	1614.1
17.5°	1385.7	1386.9	1424.1	1482.3	1540.3	1584.3	1607.7	1624.7	1645.5	1658.8	1665.1
20°	1441.3	1443.7	1485.3	1554.1	1620.3	1670.7	1689.7	1683.4	1689.1	1699.1	1706.7
22.5°	1515.7	1516.9	1563.5	1637.9	1707.3	1762.9	1775.5	1749.7	1733.9	1740.8	1745.9
25°	1602.1	1610.3	1656.9	1733.3	1804.5	1857.5	1863.1	1824.1	1784.9	1786.9	1790.0
27.5°	1707.3	1714.9	1762.3	1837.9	1910.5	1956.5	1955.9	1903.5	1846.1	1831.6	1836.1
30°	1821.5	1829.7	1878.3	1956.5	2024.0	2064.4	2055.5	1993.1	1911.1	1884.0	1887.1
32.5°	1957.1	1962.2	2011.4	2089.6	2152.0	2184.2	2165.9	2089.0	1986.8	1955.9	1963.5
35°	2121.1	2128.7	2165.3	2239.1	2294.0	2320.4	2289.5	2198.7	2083.9	2049.2	2054.3
37.5°	2308.4	2303.4	2345.0	2410.6	2456.0	2472.4	2430.2	2322.3	2194.9	2153.9	2161.5
40°	2504.0	2501.4	2546.8	2610.0	2634.6	2644.6	2582.2	2464.2	2323.0	2278.8	2293.3
42.5°	2681.2	2679.4	2740.5	2810.5	2840.2	2828.8	2750.0	2615.0	2471.2	2420.7	2433.4
45°	2823.2	2820.6	2895.6	2994.0	3052.0	3033.2	2927.2	2781.5	2621.3	2569.0	2581.0
47.5°	2932.2	2933.4	3014.2	3136.0	3237.5	3244.4	3108.2	2951.2	2786.6	2727.2	2745.0
50°	3011.0	3014.8	3101.2	3236.2	3375.0	3436.2	3293.0	3125.2	2957.4	2890.6	2910.8
52.5°	3030.6	3037.6	3141.6	3300.0	3463.3	3580.0	3481.0	3292.4	3119.6	3055.8	3072.2
55°	2926.6	2940.4	3072.2	3294.9	3517.6	3674.6	3646.2	3462.0	3282.9	3217.4	3235.6
57.5°	2687.5	2707.0	2861.0	3151.8	3505.6	3739.6	3774.3	3624.8	3446.3	3383.2	3397.7
60°	2352.6	2376.0	2523.5	2840.8	3336.6	3763.5	3864.5	3783.1	3596.4	3535.2	3548.4
62.5°	1847.4	1877.7	2054.3	2426.4	2979.6	3651.9	3941.4	3926.3	3731.4	3655.0	3663.9
65°	1185.1	1217.3	1403.3	1843.0	2503.4	3310.0	3965.3	4065.7	3873.9	3767.3	3780.6
67.5°	714.6	729.1	821.2	1117.0	1829.7	2794.8	3762.3	4220.1	4040.4	3908.0	3918.1
70°	457.3	465.5	520.4	656.0	1034.4	2039.1	3259.0	4249.2	4242.3	4052.4	4051.1
72.5°	310.3	312.8	327.4	388.5	585.3	1158.7	2403.7	3846.8	4368.4	4238.5	4218.3
75°	227.0	241.0	264.2	275.0	332.4	579.0	1377.5	2702.6	3681.5	3738.3	3600.8
77.5°	169.0	169.6	201.8	214.4	237.2	308.4	582.8	1508.7	2285.8	2399.9	2140.7
80°	143.2	135.6	135.0	172.8	178.5	192.4	260.5	521.0	818.7	496.4	375.3
82.5°	119.2	111.0	100.2	135.0	121.8	118.0	112.9	212.0	260.5	128.0	109.2
85°	83.2	79.4	75.6	88.3	69.4	59.2	54.2	99.0	109.8	54.2	48.0
87.5°	36.0	37.2	37.8	39.2	29.0	20.8	20.8	27.8	27.8	21.4	15.8
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)