

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: McGRAW-EDISON

Report Number: P197570

Luminaire Tested: **TT-C4-LED-E1-CQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33411)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-CQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7524.2 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 58
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: 25 FT

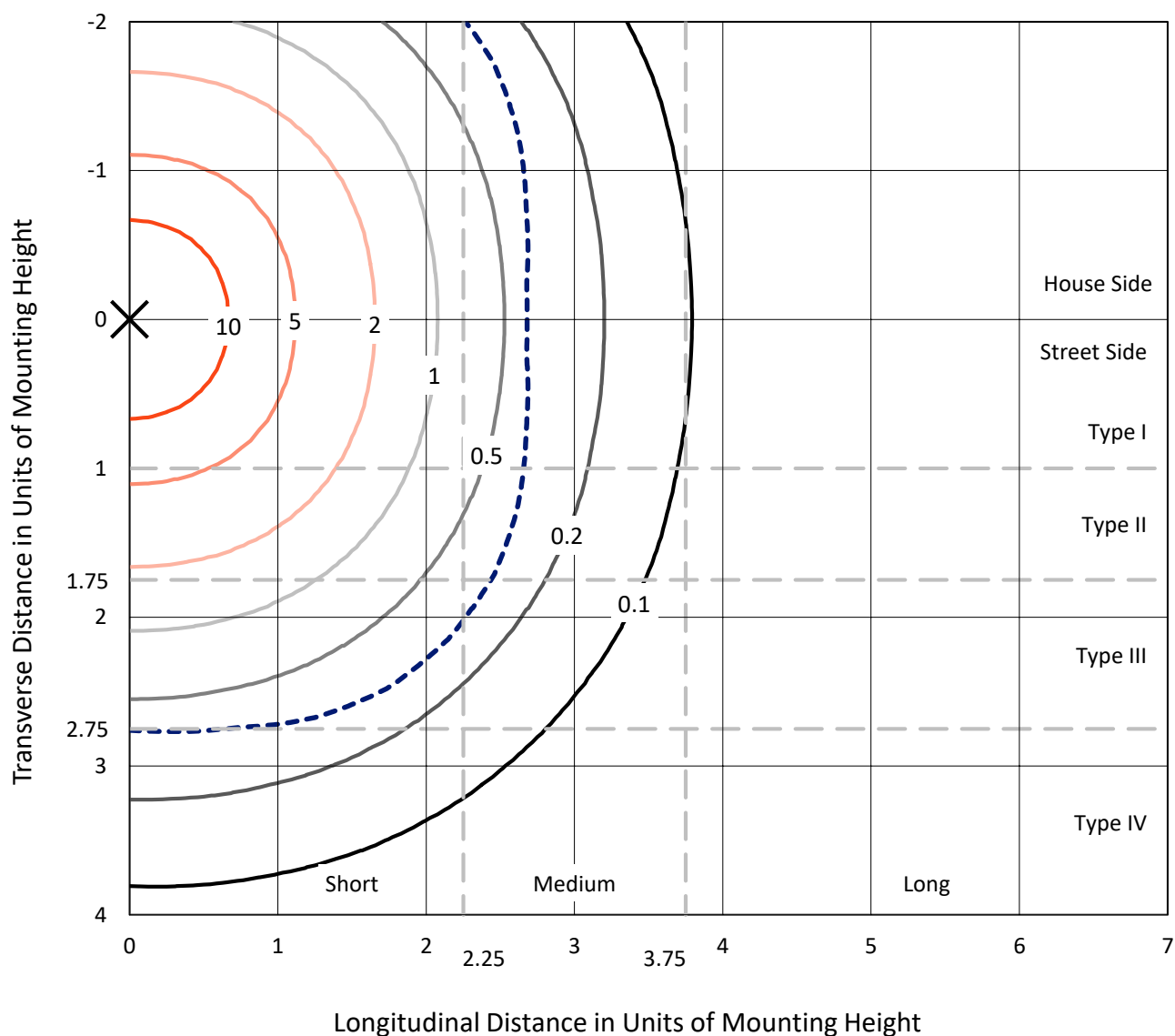


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

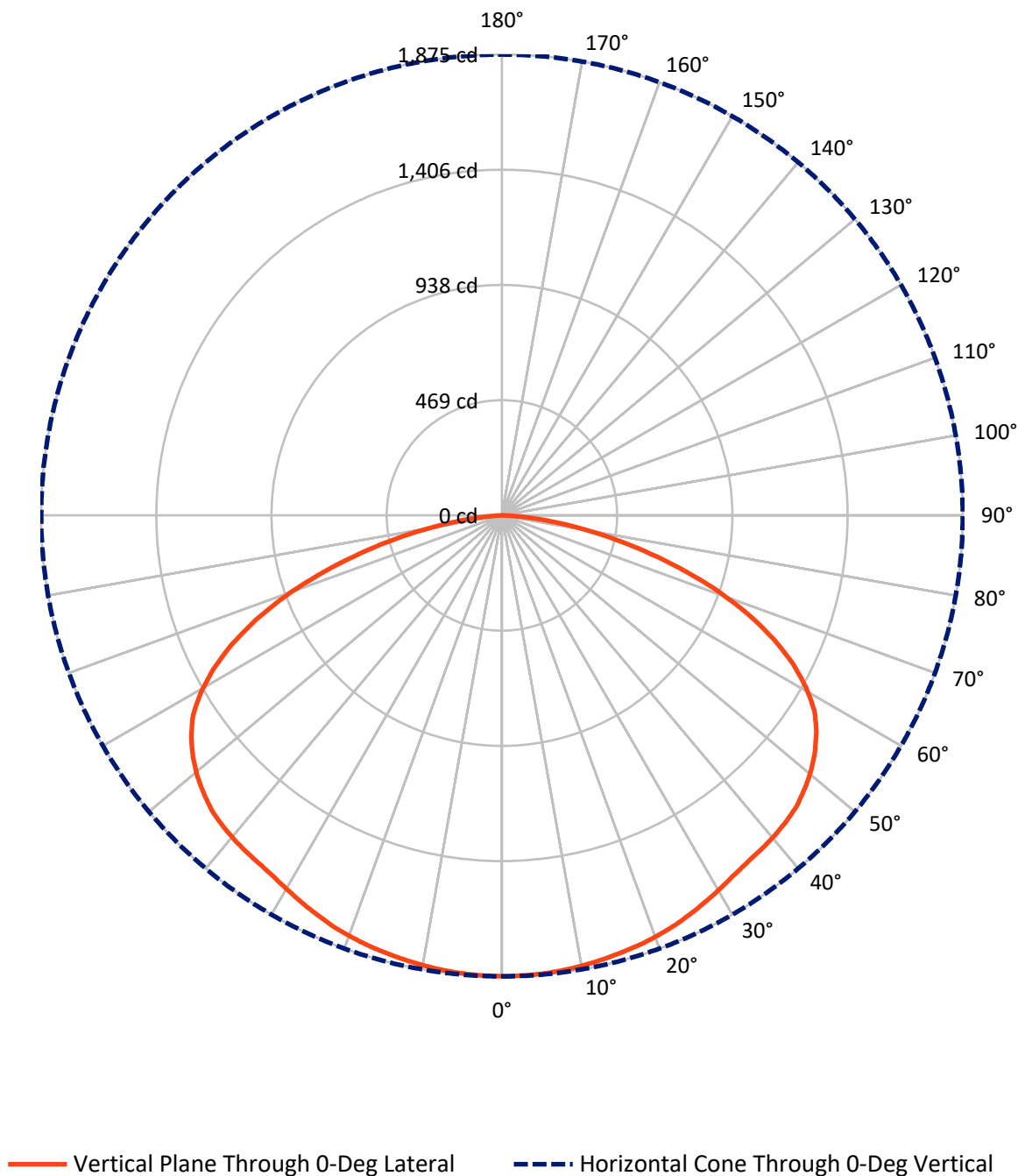


Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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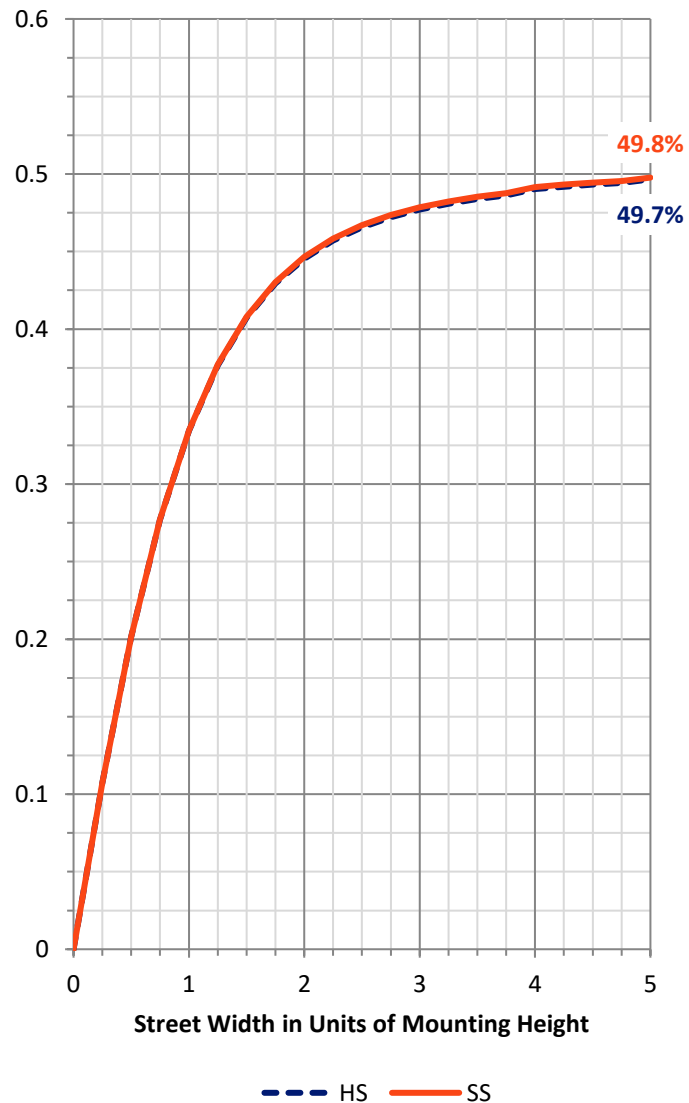
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3762.1	0.0	3762.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3762.1	0.0	3762.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7524.2	0.0	7524.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	2.4
10°-20°	521.8	6.9
20°-30°	830.1	11.0
30°-40°	1097.9	14.6
40°-50°	1339.7	17.8
50°-60°	1446.8	19.2
60°-70°	1253.0	16.7
70°-80°	710.4	9.4
80°-90°	146.1	1.9
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°	7524.2	100.0
0°-180°	7524.2	100.0

Coefficient of Utilization



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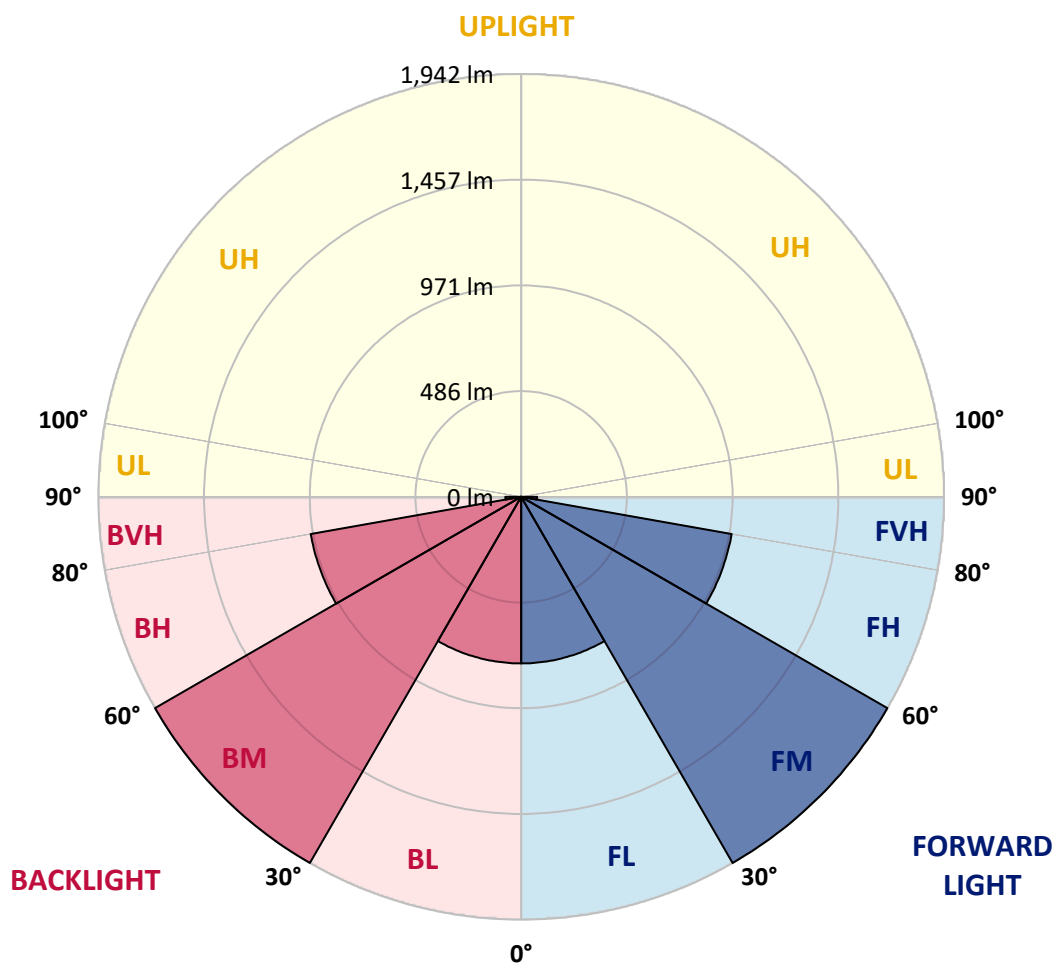
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.1	10.2			
FM	(30°-60°)	1942.2	25.8			
FH	(60°-80°)	981.7	13.0			G1/1800
FVH	(80°-90°)	73.1	1.0			G1/100
BL	(0°-30°)	765.1	10.2	B2/1000		
BM	(30°-60°)	1942.2	25.8	B2/2500		
BH	(60°-80°)	981.7	13.0	B2/1000		G1/1800
BVH	(80°-90°)	73.1	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1
2.5°	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8
5°	1871.2	1871.2	1871.2	1871.2	1871.2	1871.2	1871.2	1871.2	1871.2	1871.2	1871.2
7.5°	1866.1	1866.1	1866.1	1866.1	1866.1	1867.3	1866.1	1866.1	1866.1	1866.1	1867.3
10°	1859.6	1859.6	1860.9	1860.9	1859.6	1859.6	1859.6	1859.6	1859.6	1859.6	1859.6
12.5°	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1850.5	1850.5	1850.5
15°	1842.7	1842.7	1842.7	1844.0	1844.0	1844.0	1844.0	1842.7	1841.5	1840.2	1841.5
17.5°	1833.7	1833.7	1835.0	1836.3	1836.3	1836.3	1836.3	1833.7	1832.4	1831.1	1831.1
20°	1822.0	1823.3	1823.3	1824.6	1825.9	1825.9	1825.9	1824.6	1822.0	1819.4	1819.4
22.5°	1809.1	1810.4	1811.7	1813.0	1814.3	1813.0	1813.0	1811.7	1809.1	1807.8	1806.5
25°	1792.2	1792.2	1794.8	1797.4	1798.7	1798.7	1798.7	1796.1	1793.5	1792.2	1790.9
27.5°	1775.4	1775.4	1778.0	1781.9	1783.2	1784.5	1781.9	1780.6	1776.7	1774.1	1774.1
30°	1757.3	1757.3	1761.2	1766.3	1770.2	1771.5	1770.2	1765.0	1759.9	1757.3	1757.3
32.5°	1740.4	1741.7	1745.6	1753.4	1759.9	1762.5	1761.2	1754.7	1748.2	1743.0	1741.7
35°	1727.5	1728.8	1736.6	1745.6	1756.0	1759.9	1756.0	1749.5	1739.1	1731.4	1731.4
37.5°	1719.7	1719.7	1730.1	1745.6	1757.3	1762.5	1757.3	1748.2	1734.0	1723.6	1723.6
40°	1710.7	1713.2	1726.2	1745.6	1762.5	1770.2	1763.8	1750.8	1732.7	1719.7	1718.4
42.5°	1699.0	1702.9	1717.1	1743.0	1763.8	1775.4	1768.9	1753.4	1731.4	1717.1	1715.8
45°	1683.5	1684.8	1702.9	1734.0	1761.2	1776.7	1771.5	1752.1	1727.5	1710.7	1708.1
47.5°	1658.9	1661.4	1683.5	1719.7	1753.4	1770.2	1766.3	1744.3	1713.2	1693.8	1689.9
50°	1630.4	1633.0	1658.9	1700.3	1737.9	1757.3	1750.8	1723.6	1689.9	1664.0	1661.4
52.5°	1595.4	1600.6	1629.1	1675.7	1715.8	1734.0	1723.6	1688.6	1649.8	1621.3	1618.7
55°	1552.7	1557.9	1590.2	1639.4	1679.6	1693.8	1679.6	1638.1	1596.7	1564.3	1557.9
57.5°	1499.6	1503.5	1534.5	1586.3	1625.2	1636.8	1618.7	1576.0	1526.8	1491.8	1487.9
60°	1421.9	1427.1	1463.3	1511.2	1550.1	1564.3	1546.2	1494.4	1441.3	1406.3	1405.0
62.5°	1328.6	1337.7	1368.8	1420.6	1455.5	1475.0	1450.4	1397.3	1344.2	1304.0	1304.0
65°	1216.0	1222.5	1256.1	1306.6	1340.3	1357.1	1332.5	1283.3	1225.0	1190.1	1186.2
67.5°	1086.5	1091.7	1121.4	1173.2	1209.5	1223.7	1196.6	1149.9	1095.5	1058.0	1054.1
70°	942.7	950.5	972.5	1020.4	1052.8	1060.6	1039.9	995.8	946.6	913.0	910.4
72.5°	786.0	792.5	821.0	858.6	884.5	887.1	874.1	841.7	791.2	764.0	760.1
75°	625.5	635.8	660.4	692.8	712.2	712.2	704.5	681.2	637.1	616.4	616.4
77.5°	474.0	479.1	505.0	527.1	542.6	550.4	541.3	520.6	485.6	471.4	463.6
80°	330.2	335.4	347.1	363.9	379.4	384.6	374.2	357.4	338.0	327.6	322.4
82.5°	202.0	207.2	213.7	222.7	233.1	238.3	231.8	221.4	204.6	203.3	202.0
85°	97.1	99.7	104.9	107.5	112.7	114.0	115.3	110.1	104.9	98.4	101.0
87.5°	29.8	29.8	31.1	32.4	35.0	35.0	35.0	33.7	31.1	29.8	29.8
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)