

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: P197569

Luminaire Tested: **TT-C4-LED-E1-CQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197569
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-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5674.5 lumens
Efficiency: N/A
Efficacy: 97.8 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

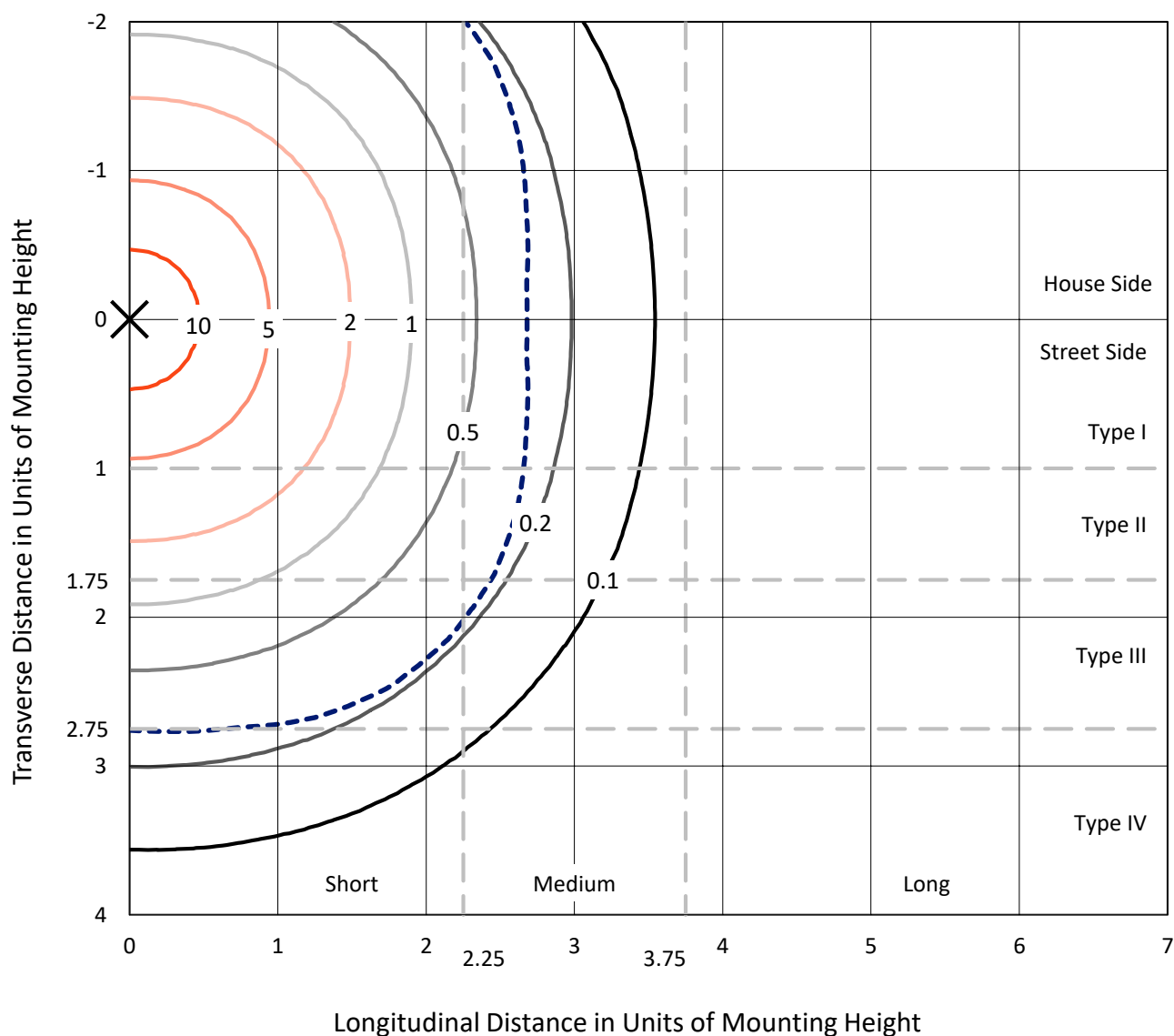


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

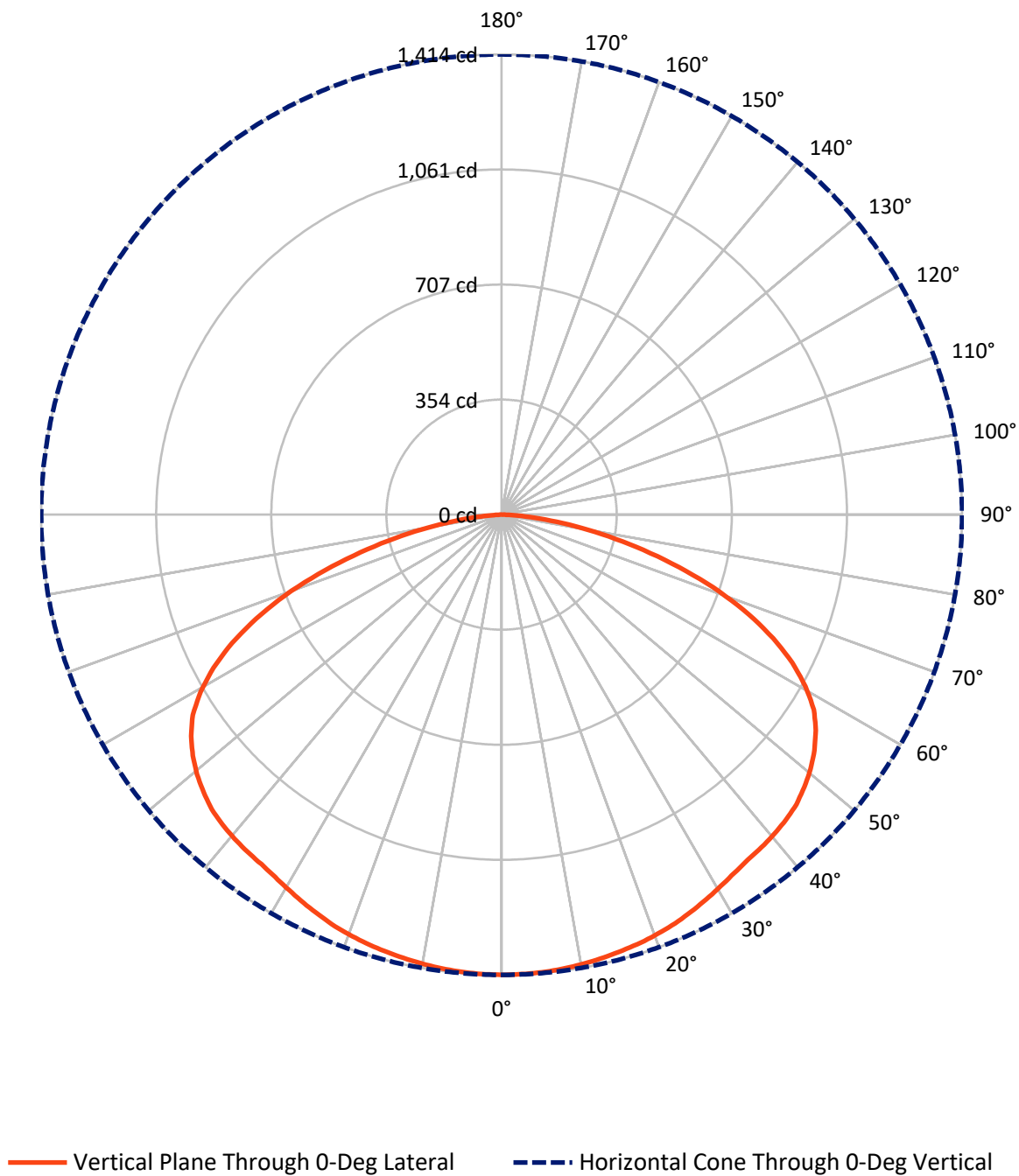


Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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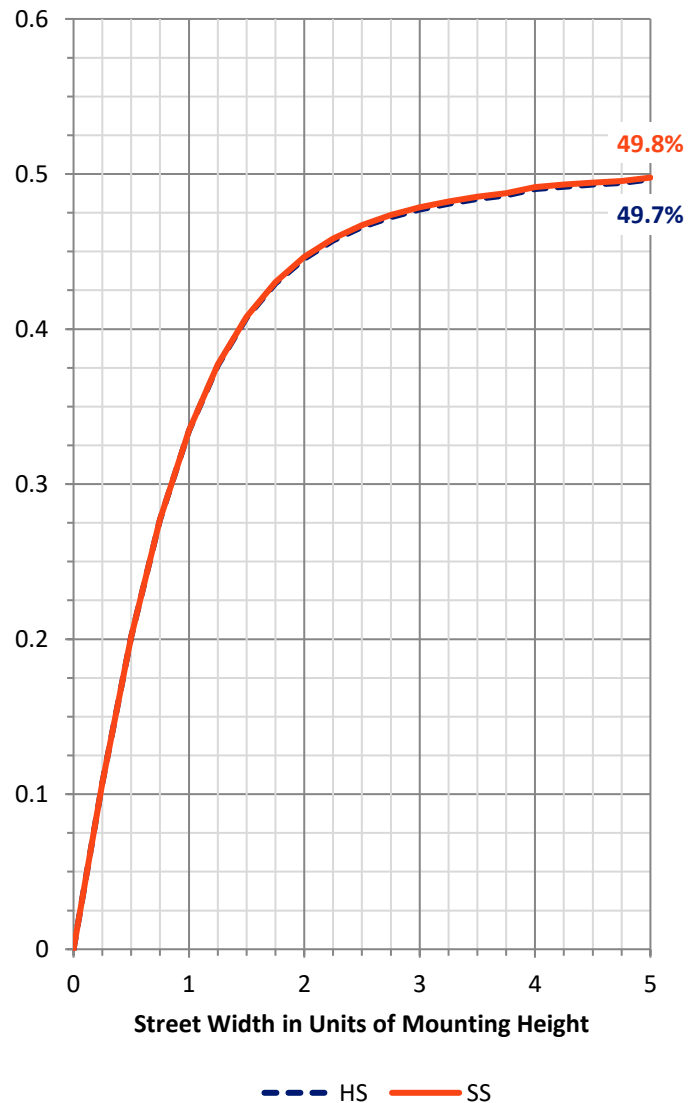
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2837.3	0.0	2837.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2837.3	0.0	2837.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	5674.5	0.0	5674.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	2.4
10°-20°	393.6	6.9
20°-30°	626.1	11.0
30°-40°	828.0	14.6
40°-50°	1010.4	17.8
50°-60°	1091.2	19.2
60°-70°	945.0	16.7
70°-80°	535.8	9.4
80°-90°	110.2	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°	5674.5	100.0
0°-180°	5674.5	100.0

Coefficient of Utilization



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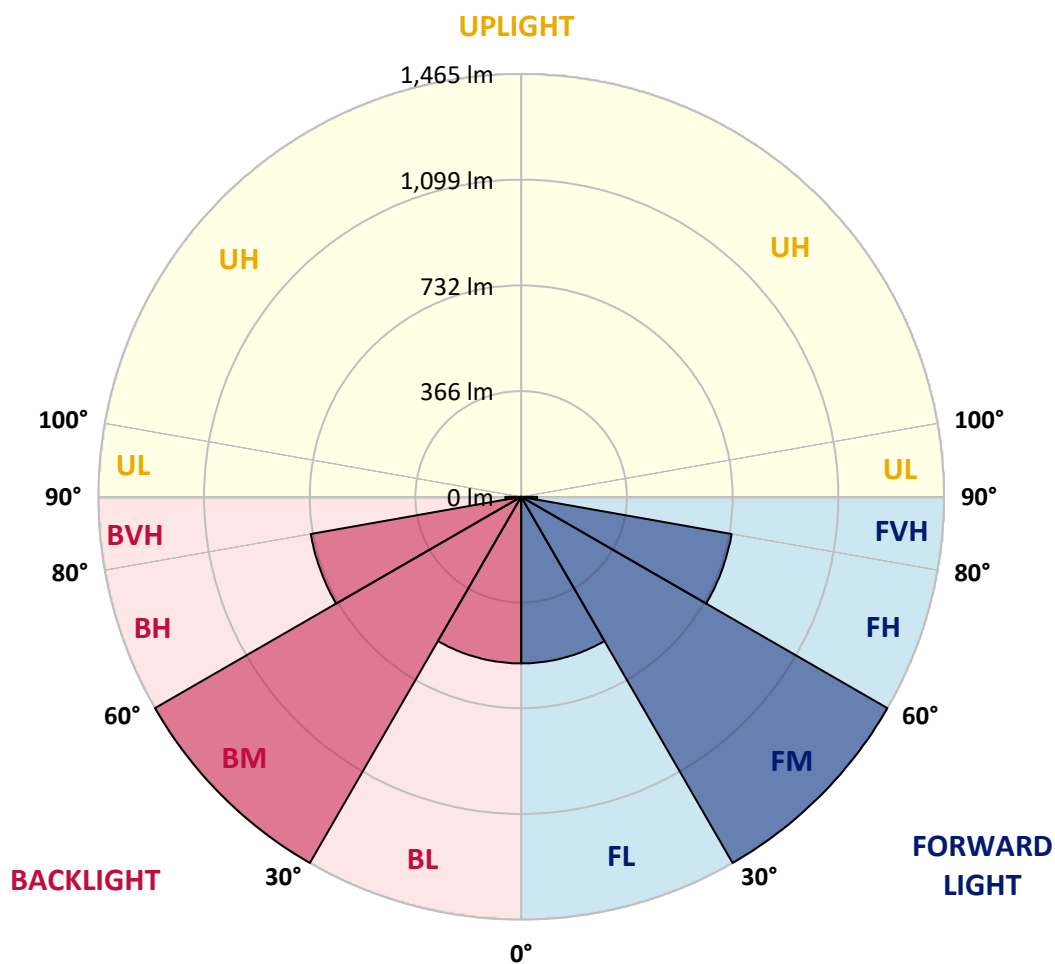
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	577.0	10.2			
FM	(30°-60°)	1464.8	25.8			
FH	(60°-80°)	740.4	13.0			G1/1800
FVH	(80°-90°)	55.1	1.0			G1/100
BL	(0°-30°)	577.0	10.2	B2/1000		
BM	(30°-60°)	1464.8	25.8	B2/2500		
BH	(60°-80°)	740.4	13.0	B2/1000		G1/1800
BVH	(80°-90°)	55.1	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°	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2
2.5°	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2
5°	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2
7.5°	1407.3	1407.3	1407.3	1407.3	1407.3	1408.3	1407.3	1407.3	1407.3	1407.3	1408.3
10°	1402.5	1402.5	1403.4	1403.4	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5
12.5°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1395.6	1395.6	1395.6
15°	1389.8	1389.8	1389.8	1390.7	1390.7	1390.7	1390.7	1389.8	1388.8	1387.8	1388.8
17.5°	1382.9	1382.9	1383.9	1384.9	1384.9	1384.9	1384.9	1382.9	1381.9	1381.0	1381.0
20°	1374.1	1375.1	1375.1	1376.1	1377.1	1377.1	1377.1	1376.1	1374.1	1372.2	1372.2
22.5°	1364.4	1365.3	1366.3	1367.3	1368.3	1367.3	1367.3	1366.3	1364.4	1363.4	1362.4
25°	1351.7	1351.7	1353.6	1355.6	1356.6	1356.6	1356.6	1354.6	1352.6	1351.7	1350.7
27.5°	1339.0	1339.0	1340.9	1343.9	1344.8	1345.8	1343.9	1342.9	1339.9	1338.0	1338.0
30°	1325.3	1325.3	1328.2	1332.1	1335.1	1336.0	1335.1	1331.2	1327.3	1325.3	1325.3
32.5°	1312.6	1313.6	1316.5	1322.4	1327.3	1329.2	1328.2	1323.3	1318.5	1314.6	1313.6
35°	1302.8	1303.8	1309.7	1316.5	1324.3	1327.3	1324.3	1319.4	1311.6	1305.8	1305.8
37.5°	1297.0	1297.0	1304.8	1316.5	1325.3	1329.2	1325.3	1318.5	1307.7	1299.9	1299.9
40°	1290.1	1292.1	1301.9	1316.5	1329.2	1335.1	1330.2	1320.4	1306.7	1297.0	1296.0
42.5°	1281.4	1284.3	1295.0	1314.6	1330.2	1339.0	1334.1	1322.4	1305.8	1295.0	1294.0
45°	1269.6	1270.6	1284.3	1307.7	1328.2	1339.9	1336.0	1321.4	1302.8	1290.1	1288.2
47.5°	1251.1	1253.0	1269.6	1297.0	1322.4	1335.1	1332.1	1315.5	1292.1	1277.4	1274.5
50°	1229.6	1231.5	1251.1	1282.3	1310.6	1325.3	1320.4	1299.9	1274.5	1255.0	1253.0
52.5°	1203.2	1207.1	1228.6	1263.8	1294.0	1307.7	1299.9	1273.5	1244.2	1222.8	1220.8
55°	1171.0	1174.9	1199.3	1236.4	1266.7	1277.4	1266.7	1235.4	1204.2	1179.8	1174.9
57.5°	1130.9	1133.9	1157.3	1196.4	1225.7	1234.5	1220.8	1188.6	1151.5	1125.1	1122.2
60°	1072.3	1076.3	1103.6	1139.7	1169.0	1179.8	1166.1	1127.0	1087.0	1060.6	1059.7
62.5°	1002.0	1008.9	1032.3	1071.4	1097.7	1112.4	1093.8	1053.8	1013.8	983.5	983.5
65°	917.1	921.9	947.3	985.4	1010.8	1023.5	1005.0	967.8	923.9	897.5	894.6
67.5°	819.4	823.3	845.8	884.8	912.2	922.9	902.4	867.3	826.2	797.9	795.0
70°	711.0	716.9	733.5	769.6	794.0	799.9	784.2	751.0	713.9	688.5	686.6
72.5°	592.8	597.7	619.2	647.5	667.0	669.0	659.2	634.8	596.7	576.2	573.3
75°	471.7	479.5	498.1	522.5	537.2	537.2	531.3	513.7	480.5	464.9	464.9
77.5°	357.4	361.4	380.9	397.5	409.2	415.1	408.2	392.6	366.2	355.5	349.6
80°	249.0	252.9	261.7	274.4	286.2	290.1	282.2	269.6	254.9	247.1	243.2
82.5°	152.4	156.3	161.1	168.0	175.8	179.7	174.8	167.0	154.3	153.3	152.4
85°	73.2	75.2	79.1	81.1	85.0	85.9	86.9	83.0	79.1	74.2	76.2
87.5°	22.5	22.5	23.4	24.4	26.4	26.4	26.4	25.4	23.4	22.5	22.5
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)