

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: P821211

Luminaire Tested: **TT-D2-735-24VDC-MQ**

Issue Date: 5/19/2020



Test Information

Test Method: LM-79-08
Report Number: P821211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D2-735-24VDC-MQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

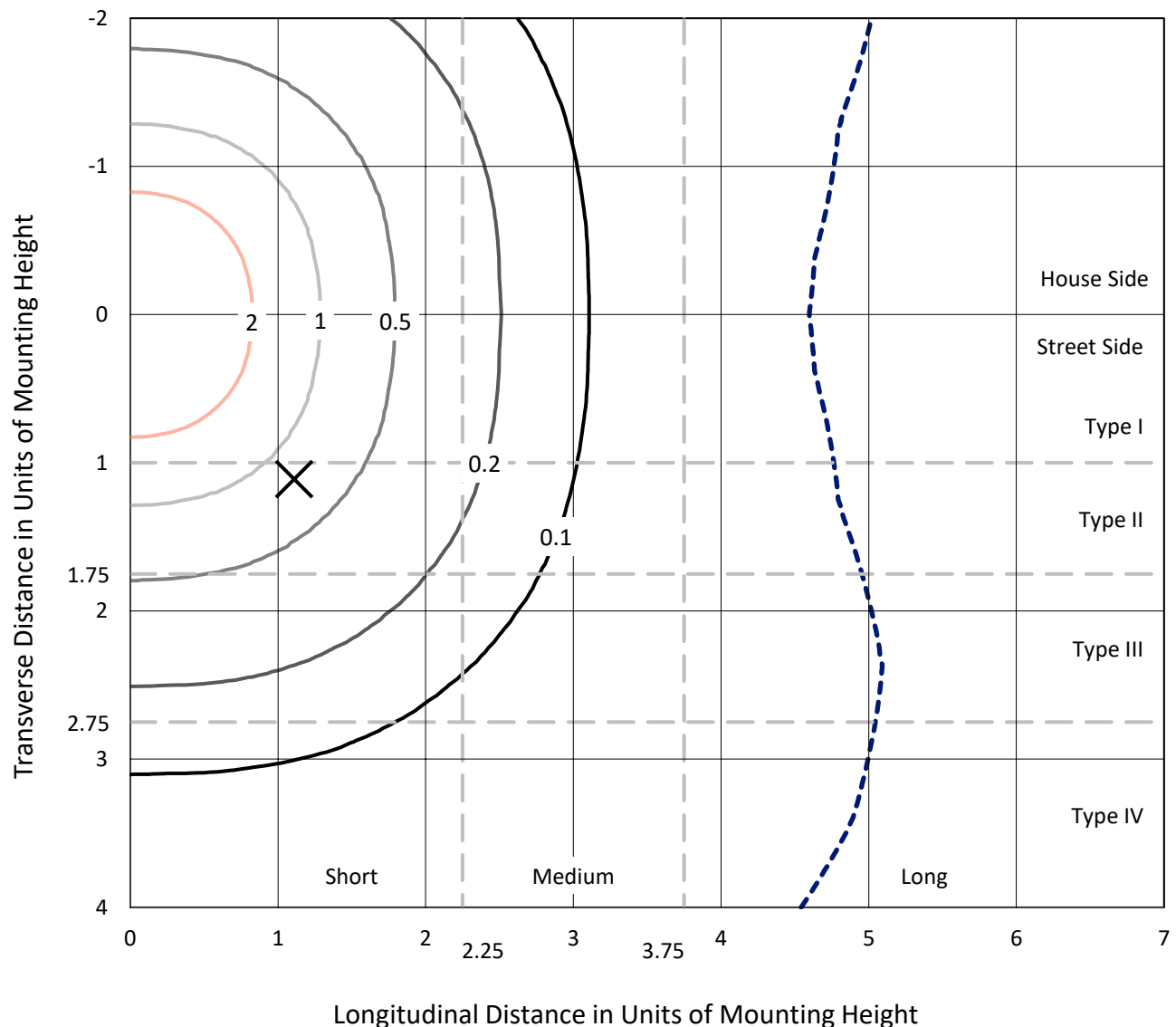
Lumens per Lamp: N/A
Luminaire Lumens: 5269 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 38
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

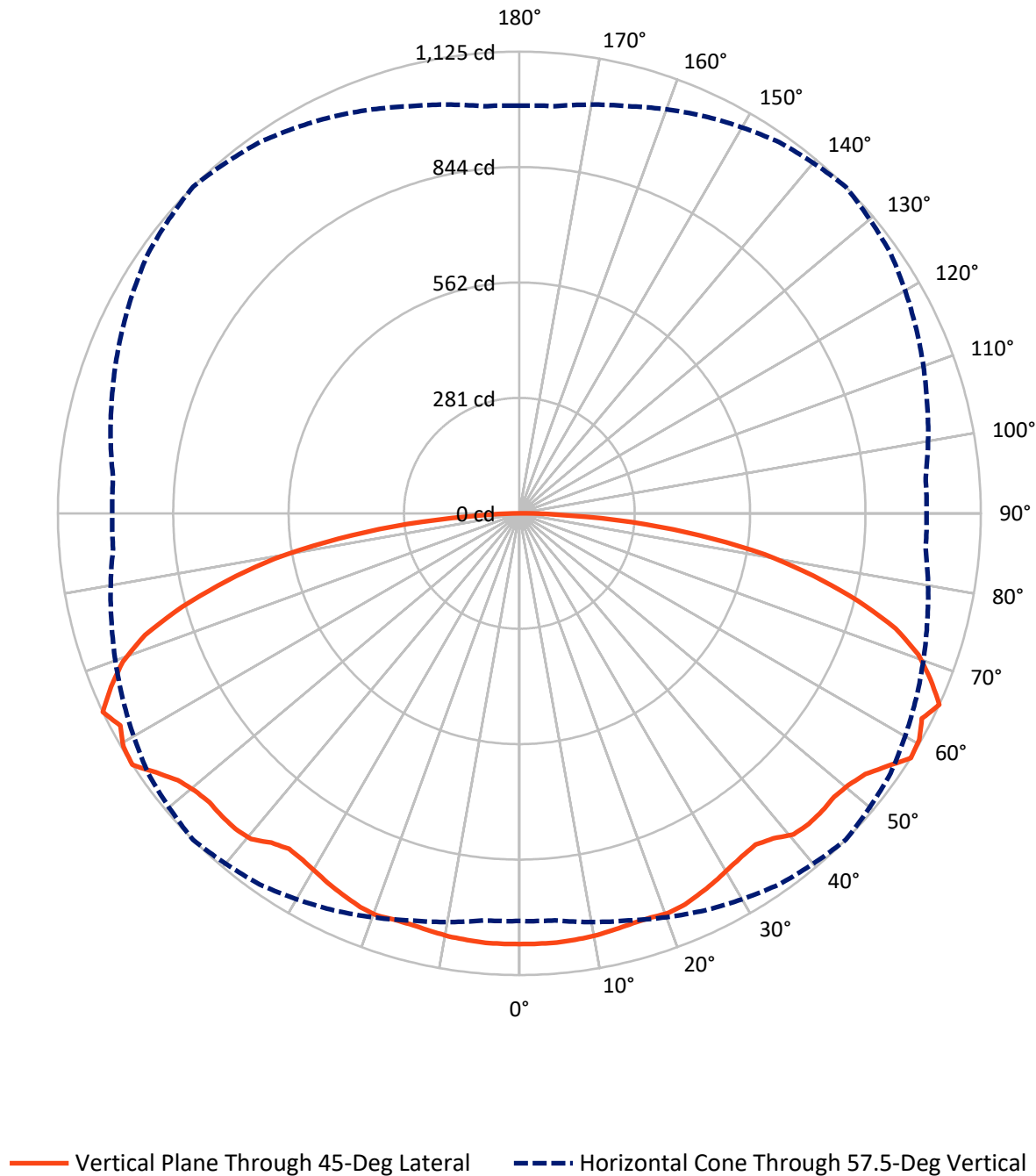
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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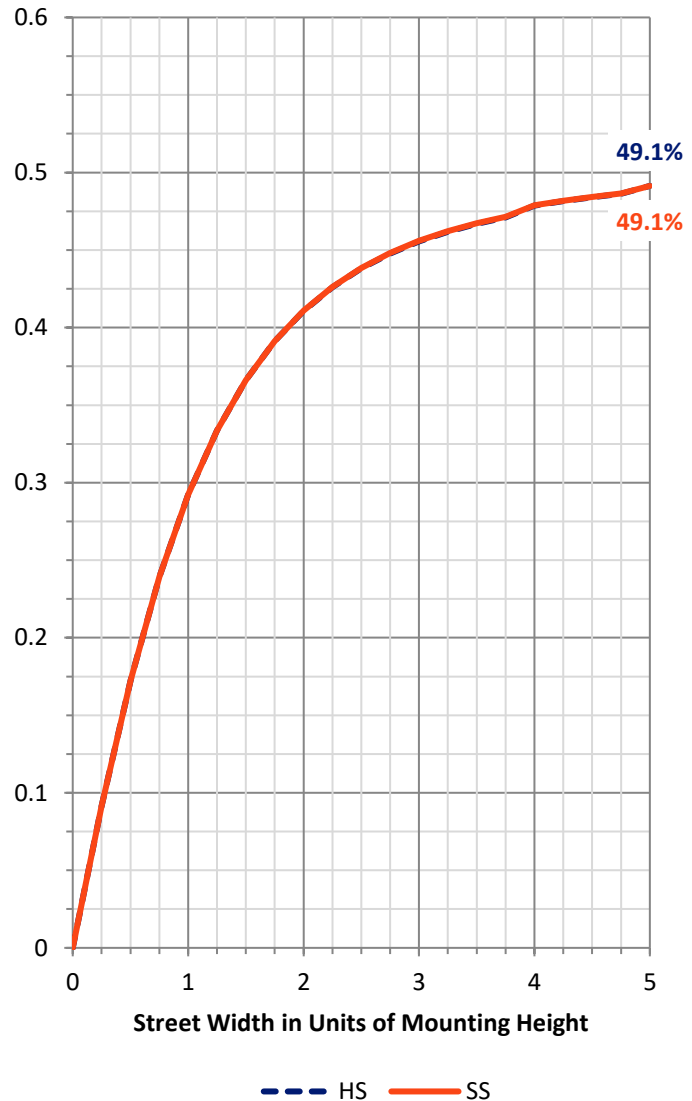
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2634.5	0.0	2634.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2634.5	0.0	2634.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5269.0	0.0	5269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	1.9
10°-20°	294.1	5.6
20°-30°	472.6	9.0
30°-40°	623.9	11.8
40°-50°	780.6	14.8
50°-60°	928.5	17.6
60°-70°	1007.0	19.1
70°-80°	801.6	15.2
80°-90°	260.6	4.9
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°	5269.0	100.0
0°-180°	5269.0	100.0

Coefficient of Utilization



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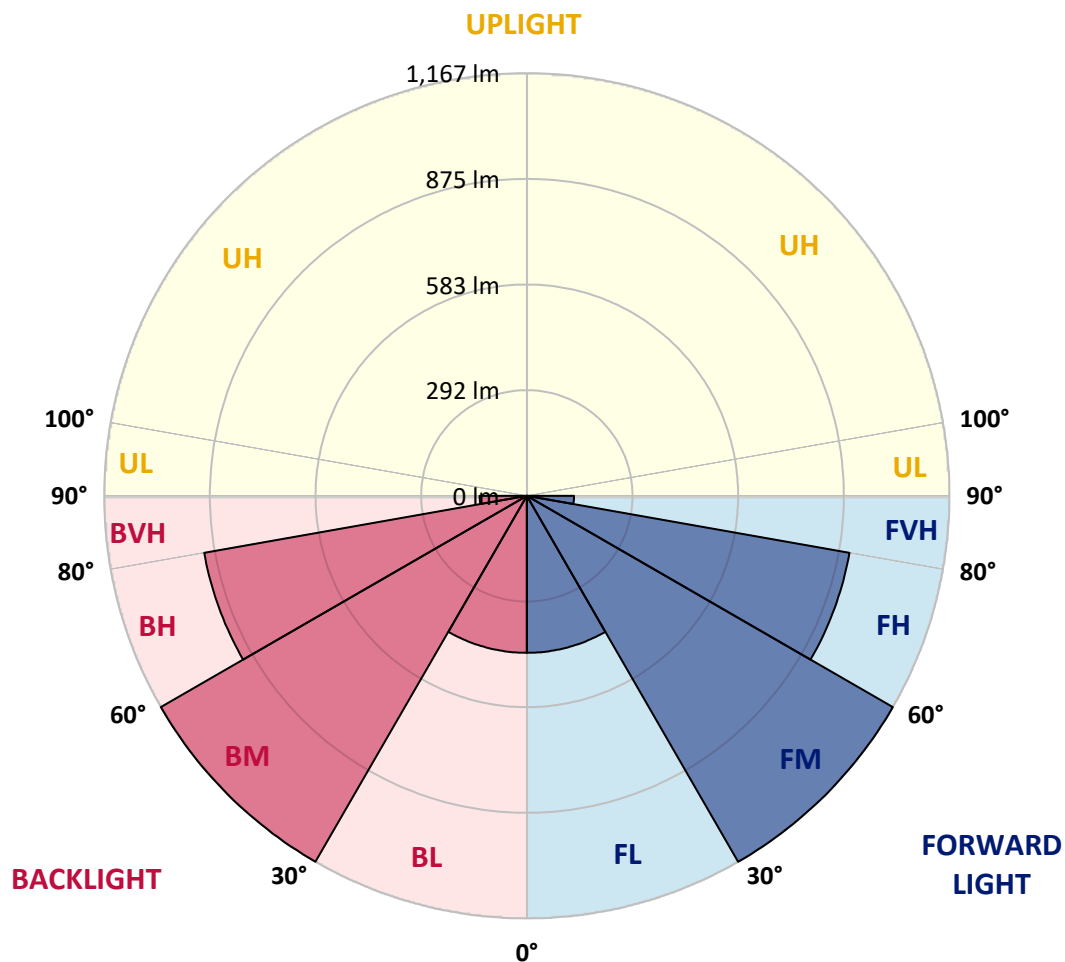
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.4	8.2			
FM	(30°-60°)	1166.5	22.1			
FH	(60°-80°)	904.3	17.2			G1/1800
FVH	(80°-90°)	130.3	2.5			G2/225
BL	(0°-30°)	433.4	8.2	B1/500		
BM	(30°-60°)	1166.5	22.1	B2/2500		
BH	(60°-80°)	904.3	17.2	B2/1000		G1/1800
BVH	(80°-90°)	130.3	2.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1049.4	1049.4	1049.4	1049.4	1049.4	1049.4	1049.4	1049.4	1049.4	1049.4	1049.4
2.5°	1051.0	1050.2	1051.0	1050.2	1050.2	1049.4	1050.2	1050.2	1050.2	1050.2	1050.2
5°	1050.2	1049.4	1049.4	1050.2	1049.4	1049.4	1049.4	1049.4	1049.4	1049.4	1049.4
7.5°	1047.1	1047.1	1047.9	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.9	1047.9
10°	1044.7	1043.9	1044.7	1044.7	1043.9	1044.7	1043.9	1044.7	1044.7	1044.7	1044.7
12.5°	1041.6	1040.8	1041.6	1041.6	1040.8	1040.0	1040.8	1040.8	1041.6	1041.6	1041.6
15°	1036.1	1036.1	1037.7	1036.9	1036.9	1036.1	1037.7	1036.9	1036.1	1036.9	1036.9
17.5°	1032.2	1032.2	1033.7	1035.3	1035.3	1035.3	1035.3	1034.5	1033.0	1033.7	1032.2
20°	1033.0	1033.7	1034.5	1036.9	1038.4	1039.2	1039.2	1036.9	1034.5	1035.3	1034.5
22.5°	1030.6	1029.8	1030.6	1032.2	1034.5	1034.5	1034.5	1031.4	1030.6	1029.8	1029.8
25°	1021.2	1021.2	1022.8	1024.3	1025.9	1025.1	1025.9	1024.3	1022.8	1021.2	1021.2
27.5°	1010.2	1010.2	1012.6	1014.2	1015.7	1015.7	1014.9	1013.4	1012.6	1011.0	1010.2
30°	999.3	999.3	1001.6	1003.2	1005.5	1004.7	1004.7	1002.4	1000.0	998.5	998.5
32.5°	987.5	986.7	989.1	993.0	996.1	996.1	996.1	991.4	988.3	986.7	985.9
35°	977.3	977.3	980.5	987.5	991.4	991.4	989.9	986.7	979.7	977.3	977.3
37.5°	974.2	976.5	985.2	995.3	1003.2	1004.7	1002.4	993.8	984.4	977.3	975.0
40°	984.4	986.7	997.7	1014.2	1025.9	1028.3	1025.9	1013.4	996.9	985.9	985.2
42.5°	985.9	987.5	1000.8	1019.6	1030.6	1034.5	1030.6	1018.1	1000.0	986.7	985.9
45°	980.5	981.2	996.9	1016.5	1029.8	1034.5	1029.8	1014.9	996.1	981.2	980.5
47.5°	973.4	975.0	992.2	1012.6	1029.0	1032.2	1028.3	1011.8	990.6	975.8	973.4
50°	967.9	972.6	988.3	1011.0	1030.6	1040.0	1030.6	1008.7	987.5	971.0	967.9
52.5°	971.0	972.6	993.0	1025.1	1051.8	1055.7	1051.0	1025.1	991.4	972.6	970.3
55°	980.5	987.5	1009.5	1055.7	1080.0	1087.0	1076.9	1054.1	1010.2	987.5	980.5
57.5°	993.0	995.3	1026.7	1067.4	1103.5	1124.7	1104.3	1066.7	1029.0	993.8	992.2
60°	982.8	975.8	1014.9	1062.7	1111.3	1120.0	1108.2	1063.5	1013.4	975.0	982.0
62.5°	955.4	960.1	992.2	1058.0	1091.7	1101.1	1088.6	1058.0	990.6	964.0	953.0
65°	933.4	961.6	996.9	1043.9	1098.0	1124.7	1098.8	1042.4	998.5	956.9	931.1
67.5°	902.9	908.3	960.9	1018.9	1067.4	1080.8	1066.7	1019.6	956.2	904.4	908.3
70°	851.1	843.3	896.6	964.0	1010.2	1031.4	1011.8	960.9	894.2	841.7	848.8
72.5°	765.7	770.4	819.8	891.1	938.9	959.3	939.7	885.6	818.2	775.1	770.4
75°	676.4	681.9	729.7	794.7	843.3	851.9	846.4	790.8	731.2	681.1	676.4
77.5°	574.5	580.0	619.2	690.5	719.5	732.8	721.0	694.4	617.6	579.2	572.9
80°	461.6	460.1	494.5	555.7	591.7	606.6	591.7	557.2	493.0	463.2	453.0
82.5°	330.0	331.5	363.7	406.0	440.5	445.2	438.1	409.9	360.5	335.4	321.3
85°	183.4	190.4	214.0	245.3	268.0	275.9	264.1	237.5	213.2	193.6	187.3
87.5°	43.9	47.8	55.6	70.5	79.2	87.0	79.2	73.7	52.5	47.8	43.9
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)