

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: P270138

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-5MQ-7027-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3822.9 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

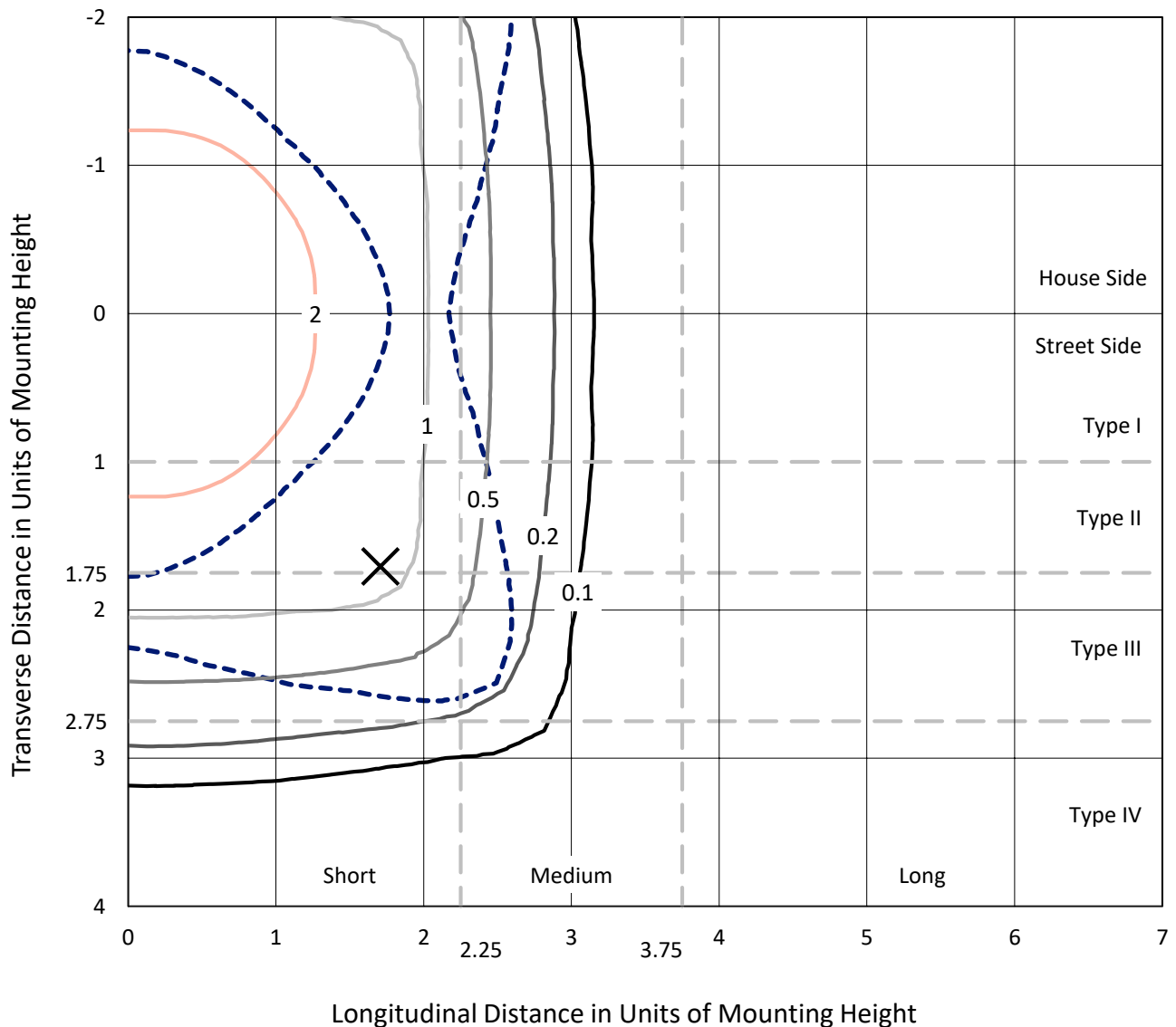
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

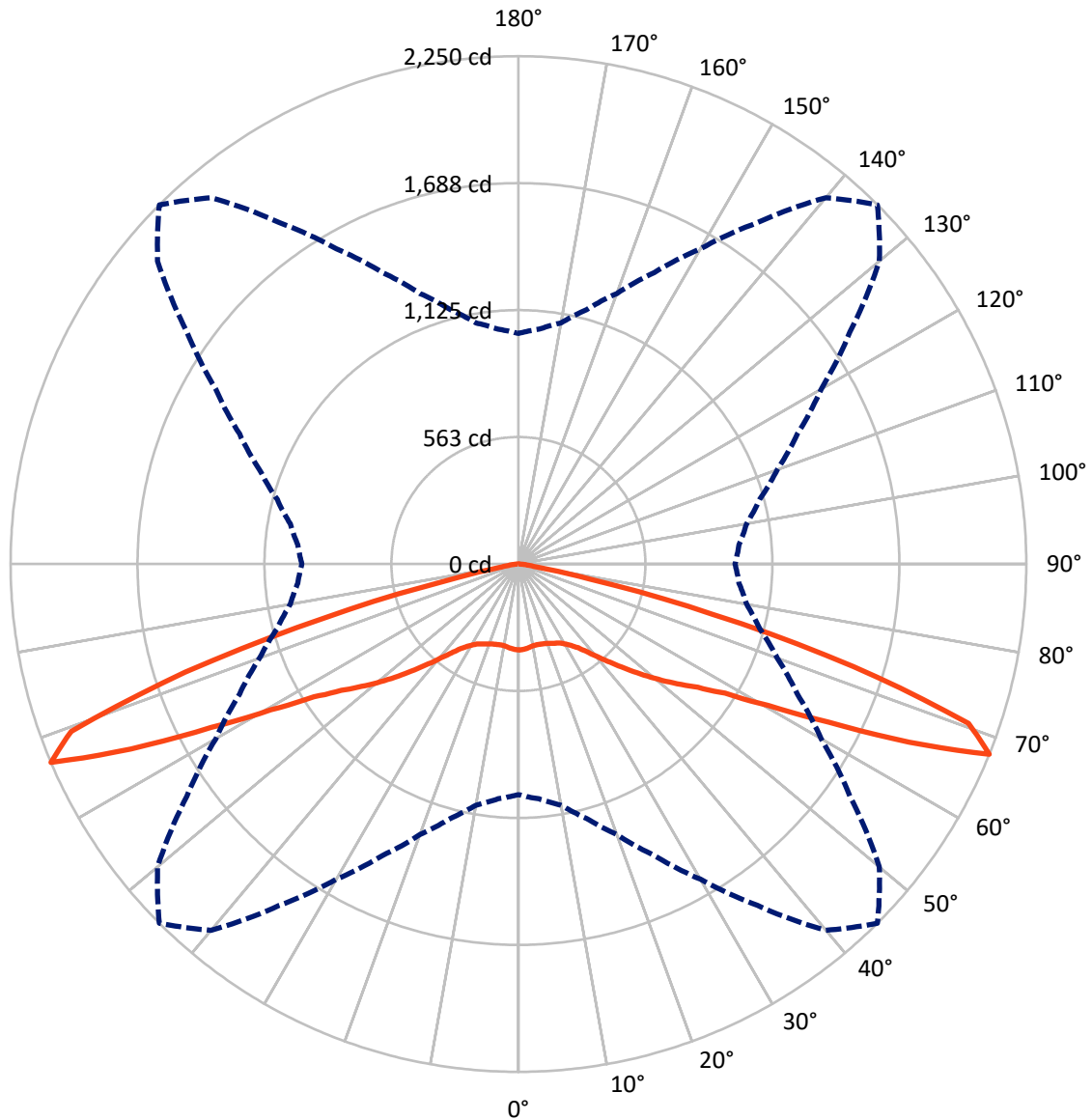
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1911.4	0.0	1911.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1911.4	0.0	1911.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3822.9	0.0	3822.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	0.9
10°-20°	103.5	2.7
20°-30°	175.9	4.6
30°-40°	287.5	7.5
40°-50°	513.3	13.4
50°-60°	865.4	22.6
60°-70°	1343.0	35.1
70°-80°	471.9	12.3
80°-90°	26.7	0.7
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°	3822.9	100.0
0°-180°	3822.9	100.0



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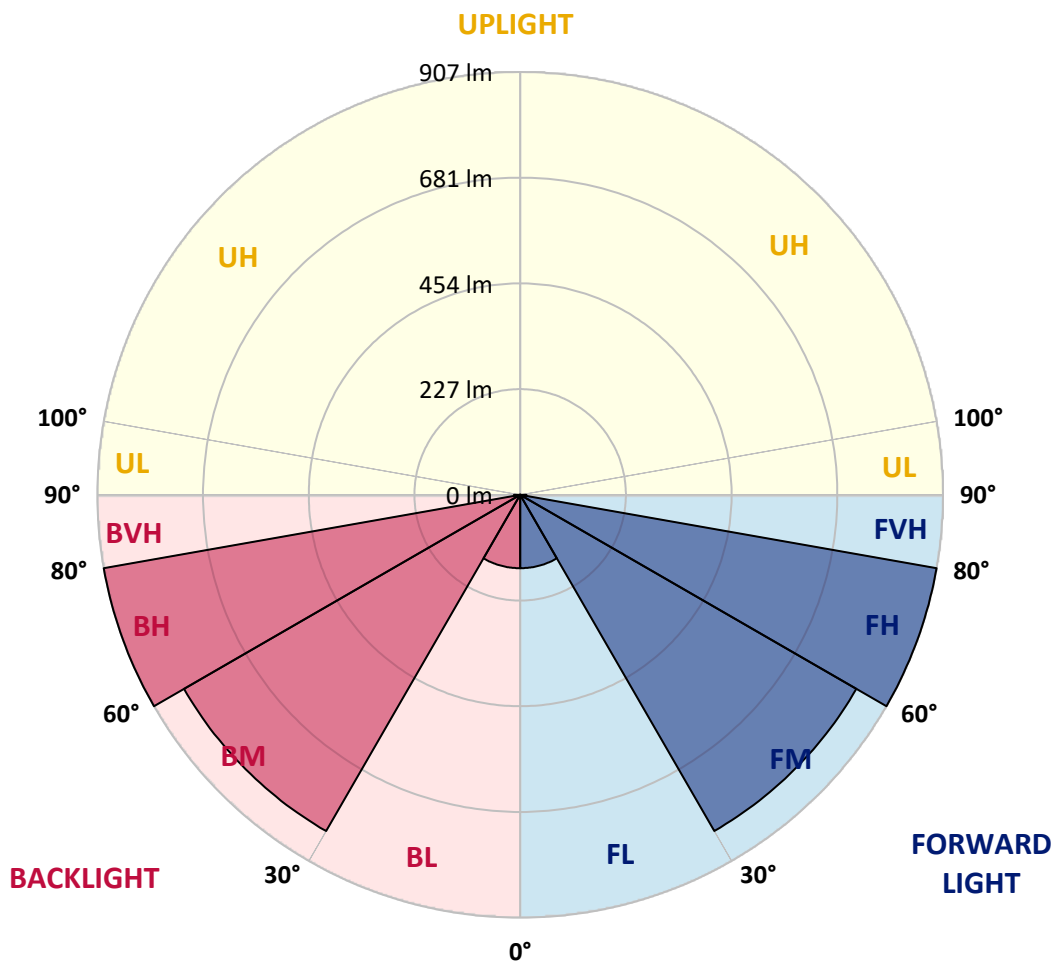
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.5	4.1			
FM (30°-60°)	833.1	21.8			
FH (60°-80°)	907.5	23.7			G1/1800
FVH (80°-90°)	13.3	0.3			G1/100
BL (0°-30°)	157.5	4.1	B1/500		
BM (30°-60°)	833.1	21.8	B1/1000		
BH (60°-80°)	907.5	23.7	B2/1000		G1/1800
BVH (80°-90°)	13.3	0.3			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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1
2.5°	379.5	380.0	380.0	380.0	379.8	379.8	379.4	379.8	379.5	379.1	379.3
5°	376.4	376.7	376.7	376.6	377.1	376.8	376.4	376.7	376.6	376.2	376.4
7.5°	371.8	372.3	372.3	372.2	372.6	372.5	372.2	372.3	372.3	371.8	371.8
10°	366.7	367.0	367.0	366.9	367.8	367.8	367.5	368.1	368.3	367.8	367.4
12.5°	361.9	362.5	362.5	363.3	364.2	364.4	365.3	366.0	366.7	366.6	365.8
15°	359.1	359.5	360.2	361.1	362.5	363.8	365.2	366.7	368.1	368.5	367.4
17.5°	357.4	358.0	359.1	360.2	362.1	364.3	366.4	368.5	370.5	371.1	369.9
20°	356.8	357.3	358.2	360.4	363.1	366.1	369.3	371.7	374.2	375.1	374.2
22.5°	358.0	358.7	360.0	362.3	365.8	369.9	373.4	376.7	380.2	381.7	380.4
25°	362.6	363.4	365.0	368.1	372.0	376.2	380.3	384.1	387.1	388.6	387.8
27.5°	371.4	372.3	374.2	377.5	381.7	386.2	390.7	393.7	396.2	396.8	395.8
30°	384.7	386.6	388.8	392.4	397.3	401.3	405.6	408.4	411.3	411.3	410.4
32.5°	405.2	407.1	409.5	413.0	416.9	421.0	424.9	427.4	430.6	430.6	428.6
35°	435.9	436.8	439.0	441.1	444.7	448.3	451.7	453.3	455.9	456.0	454.2
37.5°	476.6	476.8	478.2	478.8	482.0	486.2	489.2	490.4	492.8	492.5	490.5
40°	523.9	524.8	525.2	526.3	529.7	533.6	536.8	537.5	540.2	539.5	537.0
42.5°	578.6	578.9	581.9	583.4	586.7	588.6	592.8	593.3	596.6	595.0	592.3
45°	640.0	643.0	645.9	649.0	652.3	654.7	658.0	657.3	659.4	657.3	655.8
47.5°	704.5	706.7	713.1	717.9	723.5	725.3	730.1	727.9	730.1	727.1	726.5
50°	775.4	779.5	784.9	790.6	796.3	799.5	805.7	803.1	805.9	803.1	801.5
52.5°	845.5	846.6	858.4	866.8	874.8	878.5	882.1	881.0	881.1	881.0	879.4
55°	911.9	914.4	926.3	937.6	951.7	961.9	968.4	967.7	966.0	964.5	961.8
57.5°	986.8	989.3	1003.0	1016.8	1032.8	1047.7	1060.4	1073.7	1078.8	1080.1	1074.4
60°	1088.0	1087.8	1106.2	1123.1	1145.9	1167.8	1196.1	1224.7	1257.4	1272.8	1252.5
62.5°	1191.1	1195.3	1221.7	1251.6	1298.7	1344.6	1396.4	1447.3	1499.5	1541.9	1496.8
65°	1178.8	1194.9	1234.1	1301.9	1388.8	1492.3	1604.1	1722.3	1829.2	1902.7	1820.2
67.5°	1021.6	1044.5	1084.6	1166.8	1275.7	1424.7	1612.5	1846.5	2118.5	2250.0	2086.9
70°	740.6	766.6	808.4	888.8	996.5	1138.2	1342.1	1623.0	1983.1	2115.6	1936.0
72.5°	368.5	382.6	408.4	459.6	541.0	656.1	841.1	1111.1	1429.7	1551.4	1387.3
75°	125.1	131.7	136.1	152.8	178.7	223.8	315.8	485.8	741.0	888.3	730.4
77.5°	72.3	72.5	75.4	78.4	82.9	87.8	100.0	131.3	227.1	322.6	235.0
80°	46.7	46.6	49.0	51.4	54.3	56.9	57.5	60.8	70.2	83.2	74.4
82.5°	24.3	27.3	32.7	35.8	41.3	42.4	41.0	39.7	42.0	43.6	44.6
85°	13.4	11.6	17.3	22.5	25.0	25.3	25.3	24.0	24.9	24.3	26.4
87.5°	6.2	5.6	6.8	11.0	11.8	10.1	10.5	9.3	6.6	6.5	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1
2.5°	379.3	379.4	379.4	380.0	380.2	380.4	380.8	381.1
5°	376.2	376.7	376.4	376.8	376.8	377.3	377.3	377.5
7.5°	371.8	372.3	372.3	372.3	372.2	372.6	372.6	372.6
10°	367.2	367.5	367.4	367.0	366.7	367.2	367.0	366.9
12.5°	365.8	365.0	364.3	364.0	363.3	363.4	362.8	362.8
15°	366.7	365.2	364.0	363.4	362.6	362.3	361.9	362.1
17.5°	369.1	367.0	365.5	364.6	363.8	363.3	362.5	362.6
20°	373.1	370.8	368.5	366.7	365.2	364.3	363.8	363.5
22.5°	379.1	375.8	372.3	369.7	367.5	366.4	365.8	365.5
25°	385.9	382.1	378.4	375.3	373.2	371.7	370.6	370.6
27.5°	394.4	391.5	388.0	384.5	382.6	381.1	380.3	380.0
30°	408.9	406.2	403.2	399.9	397.5	396.0	394.6	393.5
32.5°	427.4	425.1	422.8	420.3	418.0	415.9	413.9	413.1
35°	453.5	451.7	450.1	447.3	446.4	445.1	444.1	443.3
37.5°	489.2	488.6	488.6	485.5	484.8	484.4	483.3	483.5
40°	536.4	537.0	536.2	535.1	534.6	533.2	533.2	534.4
42.5°	592.2	592.6	594.6	592.8	594.8	593.1	592.0	592.8
45°	656.8	658.7	662.6	660.9	662.1	659.0	655.5	655.6
47.5°	729.5	731.2	732.7	731.5	731.7	726.8	721.9	720.6
50°	804.8	805.5	806.4	804.6	805.1	799.5	793.9	794.1
52.5°	879.4	882.8	886.2	881.4	880.3	874.3	866.3	863.2
55°	964.6	969.5	965.3	957.1	948.8	940.5	930.1	928.4
57.5°	1069.7	1061.6	1049.0	1033.4	1021.9	1010.4	999.9	995.4
60°	1216.0	1185.7	1162.8	1139.6	1124.9	1110.8	1096.8	1094.8
62.5°	1422.7	1370.3	1324.7	1276.8	1237.4	1207.0	1182.4	1175.6
65°	1681.8	1557.7	1449.9	1349.3	1261.8	1196.1	1154.5	1136.3
67.5°	1793.3	1548.0	1363.2	1220.4	1106.2	1026.4	981.5	959.2
70°	1575.8	1283.7	1082.7	939.8	835.8	750.7	710.1	686.1
72.5°	1084.2	816.6	645.7	527.0	443.9	372.6	344.6	342.4
75°	486.8	322.4	222.2	171.2	144.2	125.4	119.6	115.2
77.5°	136.3	100.7	89.8	84.0	78.4	72.0	69.4	70.0
80°	66.3	62.6	60.1	56.5	51.4	46.0	43.4	44.5
82.5°	43.9	43.4	45.0	42.4	34.9	29.7	25.0	22.8
85°	26.7	27.0	27.6	27.8	23.5	16.4	11.3	12.7
87.5°	10.5	12.1	13.1	13.7	12.8	7.9	6.3	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)