

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P629171

Luminaire Tested: GWS-SA1B-727-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-727-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2513.5 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

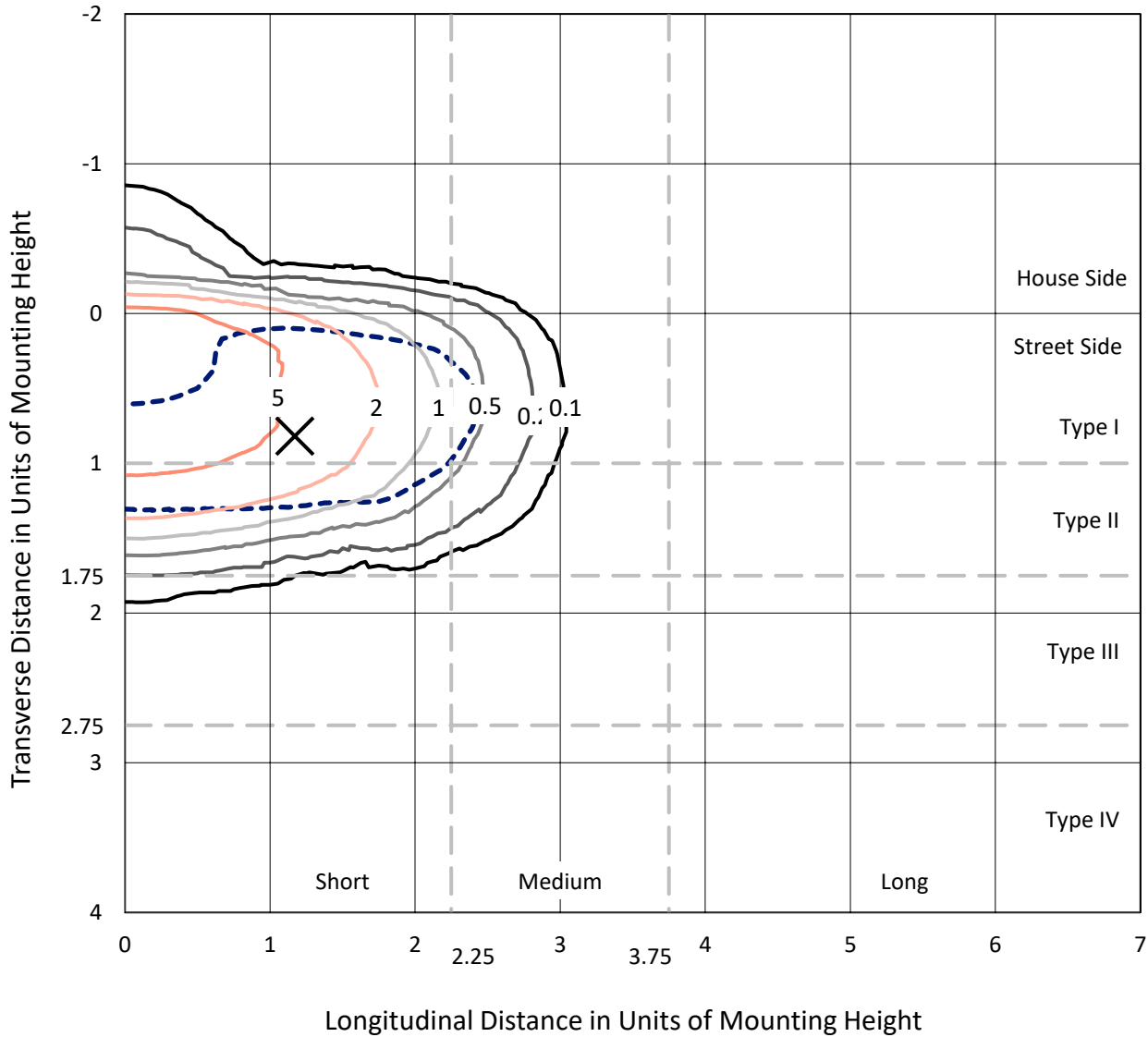
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

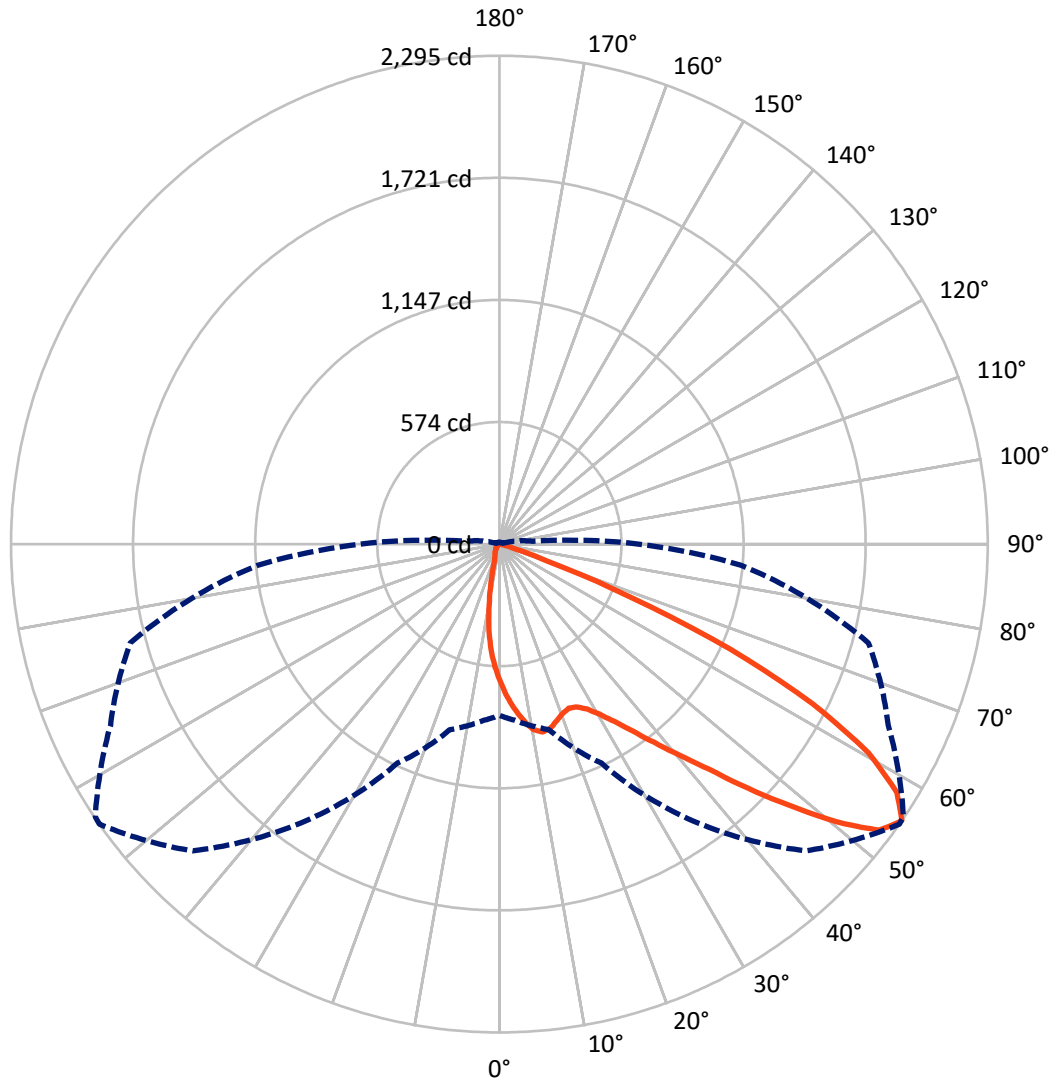
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	155.1	0.0	155.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	2358.4	0.0	2358.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	2513.5	0.0	2513.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	2.3
10°-20°	138.4	5.5
20°-30°	230.4	9.2
30°-40°	392.6	15.6
40°-50°	640.9	25.5
50°-60°	671.0	26.7
60°-70°	338.4	13.5
70°-80°	42.7	1.7
80°-90°	1.6	0.1
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°	2513.5	100.0
0°-180°	2513.5	100.0

Coefficient of Utilization



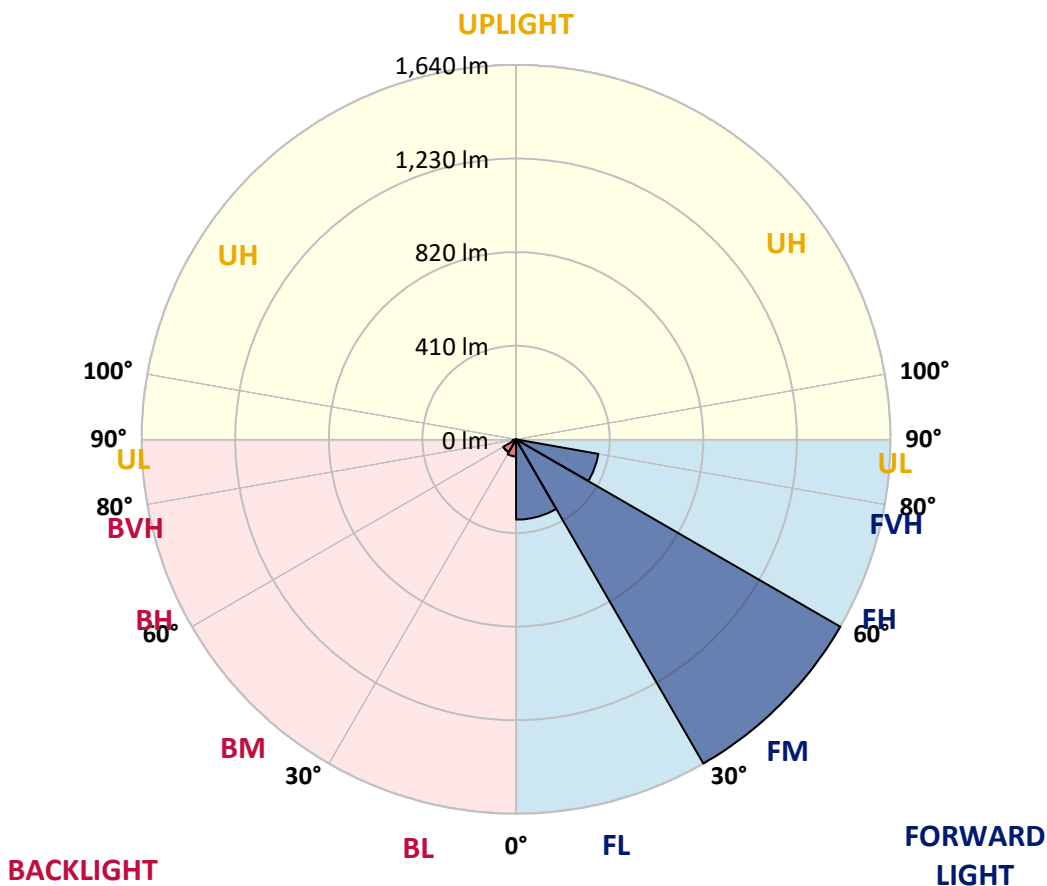
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.6	14.0			
FM (30°-60°)	1639.7	65.2			
FH (60°-80°)	365.6	14.5			G0/660
FVH (80°-90°)	1.5	0.1			G0/10
BL (0°-30°)	74.5	3.0	B0/110		
BM (30°-60°)	64.8	2.6	B0/220		
BH (60°-80°)	15.6	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3
2.5°	757.0	753.3	758.9	752.5	741.5	732.3	720.2	716.0	696.6	678.3	660.7
5°	849.0	850.0	848.3	839.3	823.8	806.6	782.3	777.0	743.2	708.4	670.8
7.5°	871.7	871.1	874.7	878.2	875.6	867.0	840.6	835.2	793.3	741.1	686.3
10°	801.5	801.9	809.4	832.6	861.4	891.3	887.2	884.2	843.2	778.0	703.5
12.5°	702.2	706.1	714.0	747.1	795.9	863.8	905.9	908.9	888.9	818.7	723.7
15°	659.2	660.1	666.5	686.5	722.8	806.6	897.9	906.3	927.2	859.5	745.6
17.5°	658.2	659.2	662.0	670.8	694.5	761.7	872.4	887.0	956.0	903.3	771.8
20°	698.5	697.9	696.0	691.2	701.6	746.9	848.7	864.9	971.6	946.1	798.2
22.5°	771.8	771.0	762.4	742.8	734.4	760.4	837.1	851.7	981.1	984.1	819.9
25°	856.3	862.3	846.2	816.5	795.9	795.0	847.5	857.8	989.3	1017.8	834.8
27.5°	948.9	950.8	937.1	903.7	873.9	850.5	877.3	885.1	998.3	1047.9	843.2
30°	1050.5	1049.9	1034.2	995.5	959.2	925.5	927.6	930.6	1019.3	1082.3	852.4
32.5°	1177.5	1180.3	1152.4	1099.7	1056.1	1009.5	993.4	993.8	1057.4	1126.6	866.4
35°	1350.0	1343.2	1306.2	1231.2	1156.9	1106.6	1079.1	1076.7	1116.0	1186.1	890.6
37.5°	1514.4	1515.1	1476.4	1393.9	1300.0	1220.7	1181.8	1175.3	1198.6	1268.6	931.0
40°	1628.5	1630.7	1614.5	1571.4	1471.9	1359.7	1302.6	1295.9	1305.6	1373.0	983.9
42.5°	1688.9	1694.9	1699.4	1709.5	1634.1	1533.3	1445.4	1444.8	1434.7	1492.1	1045.1
45°	1691.3	1700.3	1727.8	1796.8	1805.3	1731.4	1635.8	1621.4	1582.5	1619.5	1099.9
47.5°	1597.8	1618.6	1677.1	1813.7	1904.0	1928.5	1833.7	1824.9	1715.7	1720.3	1141.0
50°	1379.9	1401.6	1509.3	1726.7	1928.9	2084.9	2050.9	2032.7	1827.1	1786.9	1160.7
52.5°	1156.4	1176.2	1249.3	1519.6	1825.5	2134.1	2234.0	2212.3	1927.0	1810.1	1152.6
55°	804.7	831.1	902.5	1135.8	1587.5	2038.3	2294.6	2290.1	2016.1	1795.5	1139.9
57.5°	394.5	420.7	491.8	700.3	1176.0	1779.6	2202.0	2225.9	2069.4	1779.8	1129.6
60°	164.8	175.5	200.0	307.3	657.9	1344.9	1992.9	2026.0	2036.8	1758.5	1128.5
62.5°	95.6	97.3	99.9	127.4	255.9	771.0	1653.2	1700.3	1865.1	1730.4	1111.5
65°	72.2	72.8	71.8	78.2	105.7	292.4	1194.5	1258.5	1556.7	1620.3	1044.5
67.5°	59.3	59.3	56.5	57.8	66.4	109.6	659.4	748.8	1151.9	1331.8	862.5
70°	47.3	48.3	47.1	45.3	47.5	60.6	234.6	290.9	670.8	786.4	503.0
72.5°	35.9	35.9	38.0	36.7	35.2	38.0	81.9	92.0	269.2	327.9	181.6
75°	27.7	28.6	30.1	28.8	26.6	22.6	39.3	41.7	81.2	76.3	40.6
77.5°	14.2	14.4	19.1	21.1	19.8	13.8	17.2	18.9	26.4	23.6	15.0
80°	8.6	9.0	10.7	16.5	13.1	7.3	7.1	7.5	12.5	10.7	6.2
82.5°	3.7	3.9	6.0	6.0	5.4	2.8	2.8	2.8	6.0	5.6	2.6
85°	0.0	0.0	1.1	0.9	0.9	1.1	1.1	1.1	1.5	2.1	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3
2.5°	649.3	635.6	617.1	600.4	577.8	565.1	547.5	533.1	520.8	517.0	515.3
5°	649.6	625.9	586.4	546.8	498.3	460.0	420.7	389.6	364.0	355.8	353.7
7.5°	653.9	619.0	555.0	483.2	402.0	335.0	275.0	221.3	196.4	188.0	186.3
10°	659.7	613.2	518.7	407.0	290.3	204.1	144.6	110.2	93.9	84.9	86.2
12.5°	667.2	608.5	478.5	324.5	192.1	112.2	79.5	66.6	63.2	61.5	60.6
15°	677.3	602.9	428.7	242.6	117.7	72.2	61.2	57.8	56.5	55.7	55.4
17.5°	687.6	596.5	378.0	170.6	78.2	59.9	55.0	53.3	52.4	51.8	51.6
20°	698.5	585.5	318.4	117.5	61.7	53.9	50.7	48.8	47.7	46.6	46.4
22.5°	703.3	567.9	261.5	82.3	54.8	49.6	45.6	43.2	41.9	41.0	41.0
25°	698.8	539.3	202.6	62.5	49.9	44.9	40.8	38.2	37.2	36.3	36.3
27.5°	686.7	502.6	147.8	51.8	44.5	40.0	36.1	33.7	32.9	32.4	32.4
30°	673.4	456.2	104.2	44.5	38.5	34.8	31.6	30.1	29.9	29.4	29.4
32.5°	662.0	412.8	71.8	39.1	33.9	30.3	28.1	27.5	27.7	27.3	27.5
35°	655.8	370.2	53.3	34.8	30.3	26.9	25.8	25.8	25.8	25.6	25.6
37.5°	658.4	328.3	43.4	31.8	27.1	24.5	23.4	23.9	24.3	24.3	24.3
40°	671.3	291.2	38.5	29.0	24.3	22.3	21.5	22.1	22.8	23.2	23.2
42.5°	687.6	261.1	34.8	26.6	22.3	20.2	19.8	20.4	21.1	21.5	21.5
45°	697.9	230.8	31.2	23.6	20.4	17.8	17.8	18.7	18.5	18.7	18.7
47.5°	702.6	206.7	27.5	20.4	17.4	15.5	15.7	16.1	15.7	16.1	16.1
50°	691.0	182.4	24.3	17.0	14.4	13.5	14.0	13.8	13.8	14.6	14.6
52.5°	669.8	164.4	21.5	14.4	12.2	12.0	12.5	11.6	11.8	11.8	11.6
55°	654.1	154.1	19.1	12.5	10.5	10.7	10.5	9.0	8.2	7.3	7.1
57.5°	646.3	150.0	17.4	11.2	9.5	9.5	8.6	6.2	4.7	3.7	3.2
60°	644.6	145.0	15.7	9.7	8.4	8.0	6.2	3.7	2.4	1.7	1.5
62.5°	628.3	133.0	14.2	7.7	7.3	6.4	3.9	2.1	1.3	0.9	0.6
65°	574.8	109.4	12.7	6.0	5.6	4.7	2.4	1.3	0.6	0.2	0.0
67.5°	457.2	77.6	11.2	4.5	3.9	3.0	1.5	0.9	0.2	0.0	0.0
70°	263.6	41.9	9.2	3.2	2.6	1.9	1.1	0.4	0.0	0.0	0.0
72.5°	88.1	19.6	7.1	2.1	1.9	1.5	0.6	0.2	0.0	0.0	0.0
75°	19.3	11.6	4.7	1.5	1.3	1.1	0.4	0.0	0.0	0.0	0.0
77.5°	7.3	8.2	2.4	1.1	0.9	0.6	0.2	0.0	0.0	0.0	0.0
80°	2.8	5.4	1.1	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	1.5	2.1	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.9	1.1	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)