

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: P193369

Luminaire Tested: **GLEON-AF-01-LED-E1-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-5NQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3457 lumens
Efficiency: N/A
Efficacy: 101.7 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 - G0

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

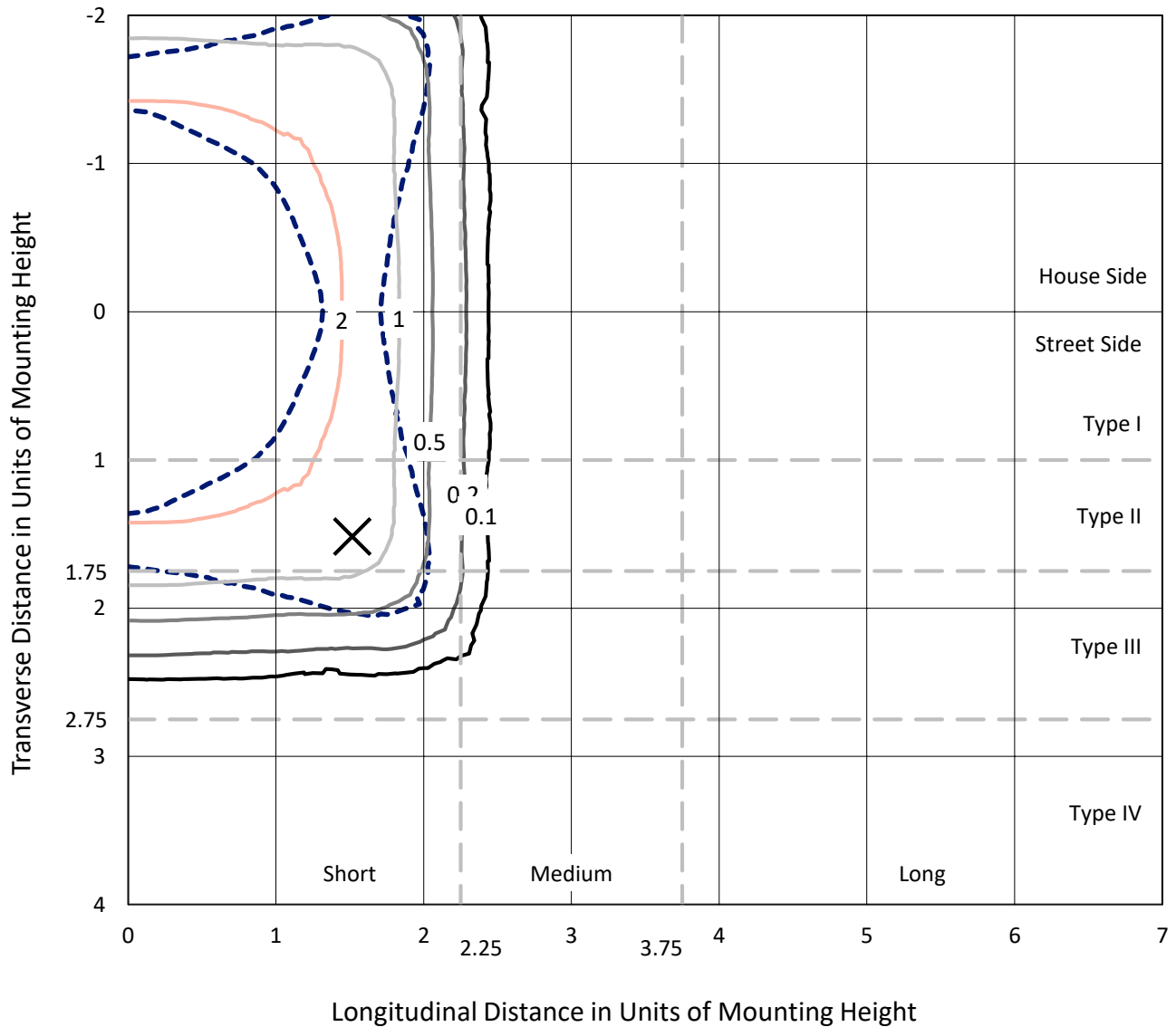


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

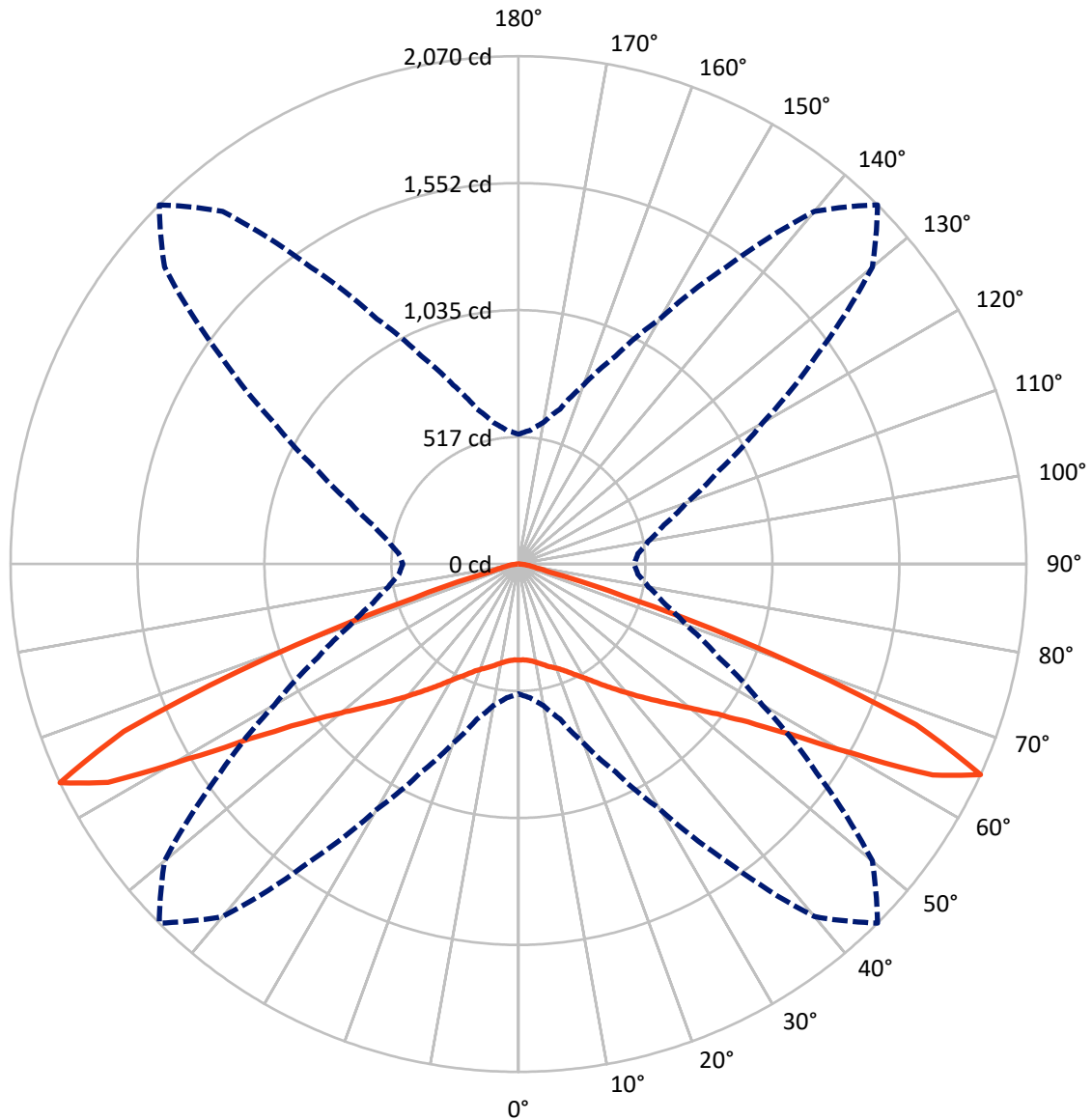


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1728.5	0.0	1728.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1728.5	0.0	1728.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3457.0	0.0	3457.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	1.1
10°-20°	122.3	3.5
20°-30°	228.6	6.6
30°-40°	386.7	11.2
40°-50°	632.3	18.3
50°-60°	1005.4	29.1
60°-70°	908.8	26.3
70°-80°	115.0	3.3
80°-90°	19.8	0.6
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°	3457.0	100.0
0°-180°	3457.0	100.0



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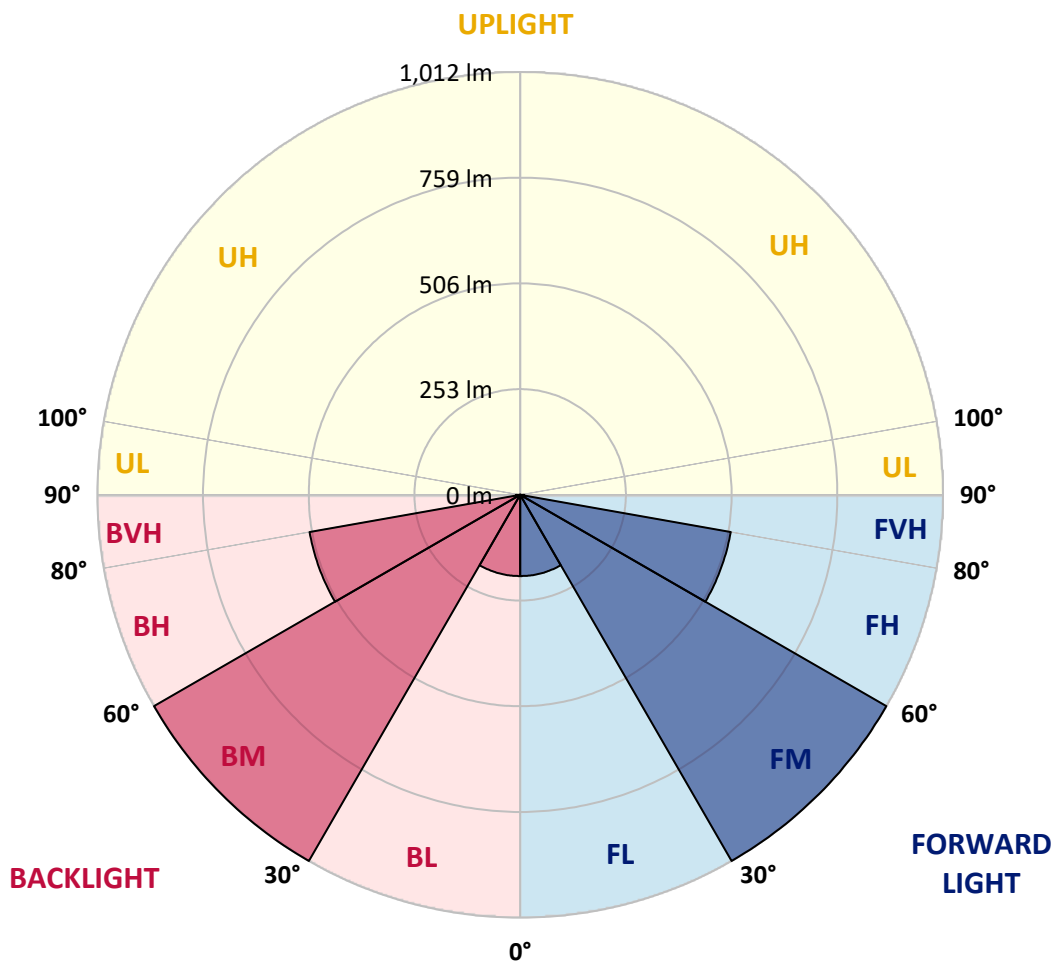
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.5	5.6			
FM (30°-60°)	1012.2	29.3			
FH (60°-80°)	511.9	14.8			G0/660
FVH (80°-90°)	9.9	0.3			G0/10
BL (0°-30°)	194.5	5.6	B1/500		
BM (30°-60°)	1012.2	29.3	B2/2500		
BH (60°-80°)	511.9	14.8	B2/1000		G0/660
BVH (80°-90°)	9.9	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2
2.5°	391.5	391.8	392.1	391.8	392.1	391.6	391.3	391.8	391.3	390.8	391.2
5°	394.9	395.0	395.0	394.6	395.0	394.7	394.2	394.9	394.4	393.9	394.2
7.5°	400.6	401.2	400.7	400.2	400.6	400.2	399.9	400.1	399.9	399.4	399.6
10°	408.2	408.6	408.3	408.2	408.5	408.3	408.0	407.8	408.0	407.5	407.5
12.5°	417.4	417.2	417.1	417.2	417.7	417.7	417.6	417.7	418.0	418.2	417.9
15°	426.5	426.8	426.8	426.8	427.8	428.6	429.0	429.4	430.0	430.2	429.5
17.5°	437.8	437.8	437.6	437.8	438.8	440.1	440.5	441.2	441.8	442.3	441.5
20°	450.4	450.7	450.7	451.1	452.4	453.8	453.8	454.1	453.8	454.1	453.7
22.5°	465.8	466.8	466.8	466.9	468.2	470.0	469.5	470.0	469.2	469.8	469.2
25°	485.9	487.3	487.0	487.0	488.0	489.1	489.3	490.2	490.1	490.9	490.4
27.5°	508.5	510.8	511.5	511.3	511.9	513.1	513.4	514.5	513.9	514.5	514.2
30°	535.7	536.7	538.0	538.5	539.3	540.4	540.4	540.6	539.8	540.8	541.2
32.5°	563.9	565.7	567.0	569.9	571.4	572.2	572.0	572.3	571.5	572.8	573.8
35°	601.2	602.4	604.6	606.8	608.8	608.6	608.1	608.3	608.3	609.4	610.4
37.5°	646.0	646.3	649.1	652.3	653.3	652.3	649.4	648.8	647.3	648.8	650.4
40°	693.4	694.6	700.1	702.2	702.7	700.9	696.7	694.2	691.0	692.8	695.1
42.5°	743.1	745.4	750.4	754.2	755.8	754.6	748.8	745.1	740.9	741.8	744.1
45°	798.2	800.9	808.1	811.6	814.7	812.9	807.3	801.6	795.0	795.4	799.0
47.5°	859.7	862.5	871.7	877.7	879.3	879.0	872.7	864.9	855.8	855.5	858.6
50°	928.7	931.4	942.9	952.2	956.9	956.4	948.9	937.9	926.9	927.1	931.0
52.5°	996.0	999.4	1011.4	1027.3	1036.5	1043.2	1038.6	1028.3	1014.8	1015.1	1018.7
55°	1059.2	1064.8	1078.6	1100.1	1117.3	1135.9	1141.3	1140.9	1132.8	1135.1	1138.7
57.5°	1089.8	1098.2	1119.4	1153.4	1188.4	1226.3	1258.3	1282.3	1292.5	1307.9	1304.3
60°	1031.8	1045.3	1076.5	1126.5	1195.7	1274.7	1359.4	1442.1	1512.7	1565.9	1535.3
62.5°	844.8	862.3	900.2	964.3	1068.9	1195.3	1357.4	1553.0	1766.1	1894.6	1802.8
65°	528.6	546.8	585.3	653.9	776.3	933.5	1153.4	1477.5	1875.7	2069.5	1882.6
67.5°	206.1	216.0	236.9	280.7	372.7	512.6	733.3	1101.1	1577.3	1747.1	1548.0
70°	103.3	104.3	108.2	116.2	136.0	176.6	268.8	510.5	904.6	1092.5	872.0
72.5°	74.6	74.8	76.7	80.3	86.6	95.7	113.2	156.2	294.2	449.6	275.7
75°	57.2	57.8	58.9	60.9	64.3	68.8	75.1	90.0	111.6	129.4	108.8
77.5°	44.0	45.3	46.1	47.9	50.0	53.1	54.9	60.6	70.4	74.2	73.0
80°	33.5	34.6	36.4	37.9	39.3	40.8	40.2	42.7	47.9	51.0	49.4
82.5°	21.4	22.7	27.8	29.1	29.8	30.8	29.6	29.8	32.1	34.0	32.1
85°	13.8	14.6	17.6	19.3	19.4	20.1	19.6	18.5	18.5	16.8	18.9
87.5°	6.3	6.5	7.9	9.4	9.7	8.7	8.6	8.3	6.6	6.3	6.8
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°	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2
2.5°	391.0	391.3	391.5	392.0	392.1	392.1	392.3	392.6
5°	394.1	394.6	394.7	395.4	395.5	395.4	395.7	395.9
7.5°	399.6	400.4	400.7	401.4	400.9	401.5	401.7	401.7
10°	407.7	408.5	408.6	409.3	409.0	409.3	409.3	409.0
12.5°	418.4	418.5	418.0	418.5	417.9	418.2	417.7	417.4
15°	430.2	429.7	428.6	428.6	427.6	427.8	427.6	427.4
17.5°	441.7	440.7	439.9	439.6	438.8	438.6	438.1	438.1
20°	454.3	453.8	453.3	452.7	451.9	451.1	450.9	451.2
22.5°	469.5	469.4	469.4	469.0	467.9	467.1	466.6	466.6
25°	489.9	488.5	488.5	488.3	487.8	487.3	486.4	486.8
27.5°	512.9	512.1	512.8	512.6	512.1	512.1	511.5	511.5
30°	541.2	540.9	541.9	541.1	539.5	539.3	538.7	537.8
32.5°	574.0	573.6	575.1	574.1	571.5	570.1	568.8	568.1
35°	610.4	610.5	612.3	611.7	608.8	607.8	605.5	605.2
37.5°	650.2	652.8	655.9	656.5	654.1	653.4	651.0	649.7
40°	697.0	700.4	705.1	706.2	703.6	703.2	699.8	698.0
42.5°	746.9	752.7	758.5	759.5	756.9	754.3	751.1	749.8
45°	802.6	809.5	817.1	819.1	815.2	812.1	807.9	807.9
47.5°	865.1	873.8	882.4	887.7	884.2	880.9	875.9	872.7
50°	938.9	950.9	962.0	967.5	961.9	955.7	947.0	944.1
52.5°	1031.5	1044.4	1054.2	1051.2	1042.5	1033.9	1024.4	1020.5
55°	1149.7	1154.1	1154.1	1143.0	1125.6	1111.2	1096.1	1091.1
57.5°	1297.5	1280.7	1254.8	1221.9	1180.6	1144.7	1120.4	1108.9
60°	1471.2	1390.3	1298.8	1208.9	1135.1	1074.2	1038.1	1021.6
62.5°	1587.0	1375.2	1191.9	1047.7	941.5	868.1	818.3	798.8
65°	1483.2	1146.9	901.5	728.9	613.1	538.5	489.1	471.0
67.5°	1086.4	718.7	480.0	344.0	252.1	201.1	180.8	172.4
70°	487.7	253.1	155.1	121.1	104.4	95.8	92.1	90.8
72.5°	147.0	106.4	89.7	81.0	74.3	70.1	67.0	66.7
75°	88.7	73.8	65.6	60.4	56.2	52.8	51.2	50.7
77.5°	62.0	54.2	50.4	46.6	43.4	40.8	39.3	38.2
80°	43.6	39.8	38.0	35.9	33.8	31.4	29.3	28.3
82.5°	29.1	28.3	28.3	27.0	25.3	23.0	18.8	17.8
85°	18.8	18.6	18.9	18.5	17.2	14.7	12.1	11.5
87.5°	8.7	8.9	9.9	9.7	9.4	7.8	6.2	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)