

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: H39508

Luminaire Tested: **ARC10SXX5CX5XC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: H39508  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC10SXX5CX5XC  
Description: STREETWORKS AVENUE ARC TYPE 5 CUT OFF POST TOP  
WITH COPPER FINISH DECORATIVE CHIMNEY, ACRYLIC GLOBE  
Light Source: MOGUL BASE E23.5 CLEAR HIGH PRESSURE SODIUM LAMP  
LU100/U 100 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 9500 (1 lamp)  
Luminaire Lumens: 6460.3 lumens  
Efficiency: 68.0%  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B3 - U2 - G1

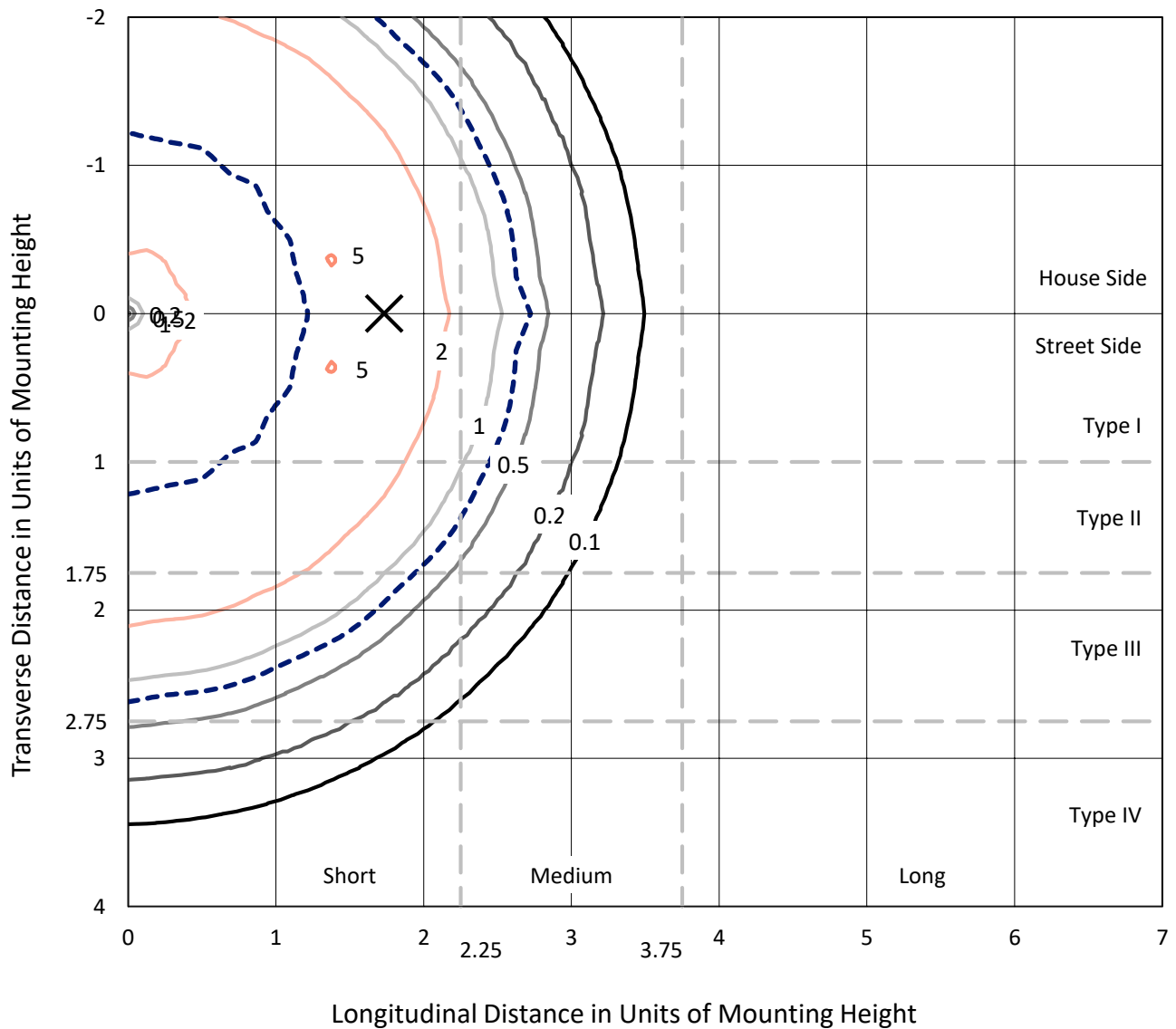
Input Watts (W): 100  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

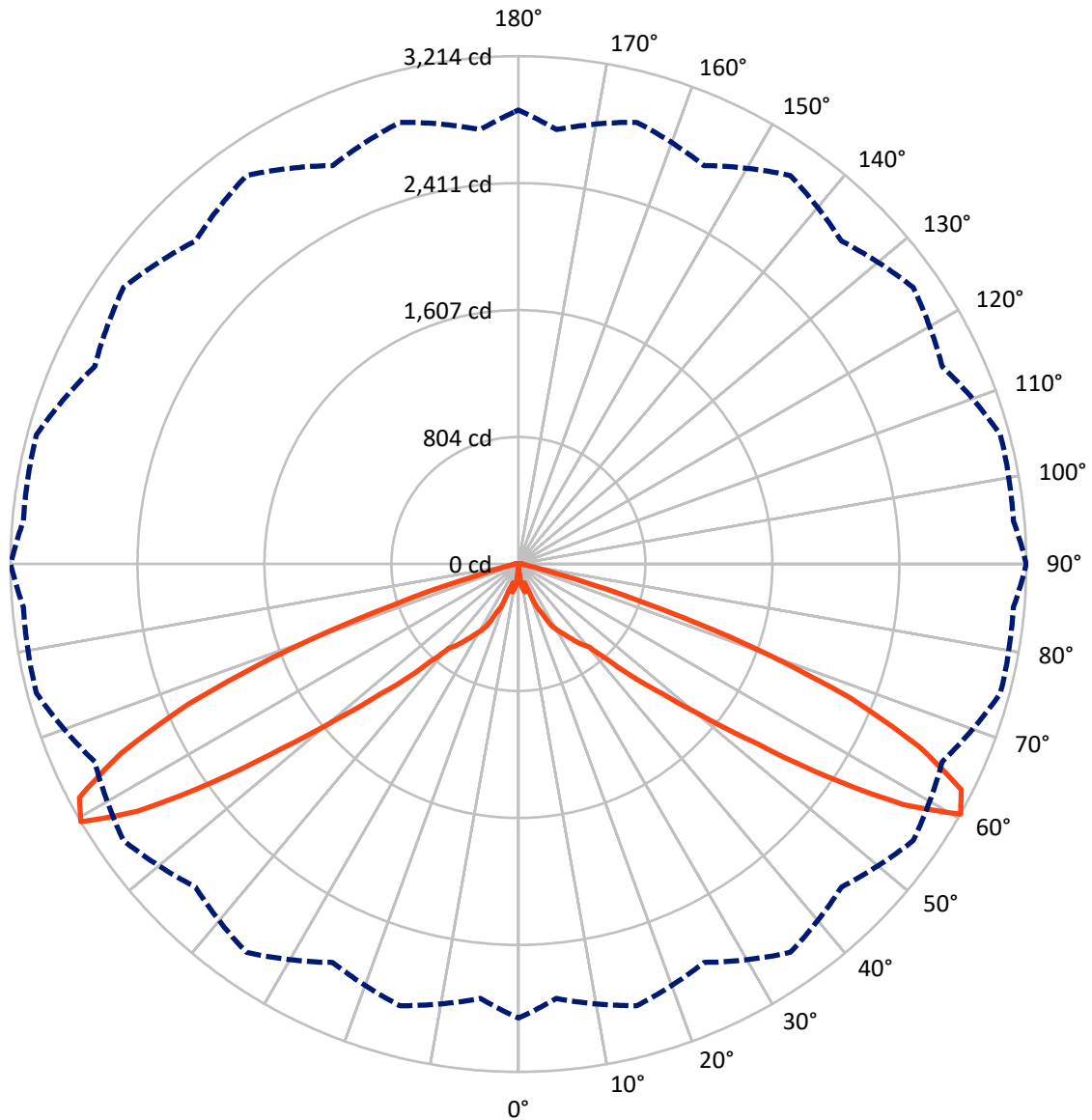
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical



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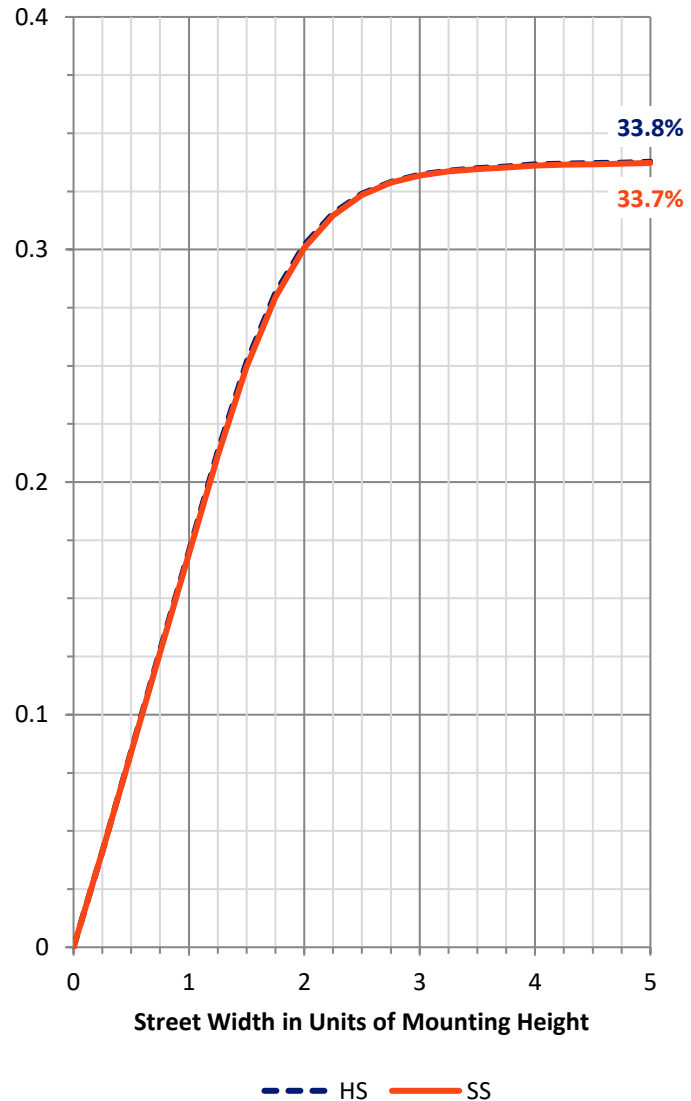
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3213.5	16.6	3230.2
	% Lamp	33.8	0.2	34.0
<b>Street Side</b>	Lumens	3213.5	16.6	3230.2
	% Lamp	33.8	0.2	34.0
<b>Total</b>	Lumens	6427.1	33.3	6460.3
	% Lamp	67.7	0.4	68.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.0	0.2	0.1
10°-20°	46.5	0.7	0.5
20°-30°	154.2	2.4	1.6
30°-40°	362.4	5.6	3.8
40°-50°	821.9	12.7	8.7
50°-60°	2170.3	33.6	22.8
60°-70°	2356.2	36.5	24.8
70°-80°	469.8	7.3	4.9
80°-90°	35.9	0.6	0.4
90°-100°	19.7	0.3	0.2
100°-110°	11.1	0.2	0.1
110°-120°	1.9	0.0	0.0
120°-130°	0.6	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	6427.1	99.5	67.7
0°-180°	6460.3	100.0	68.0



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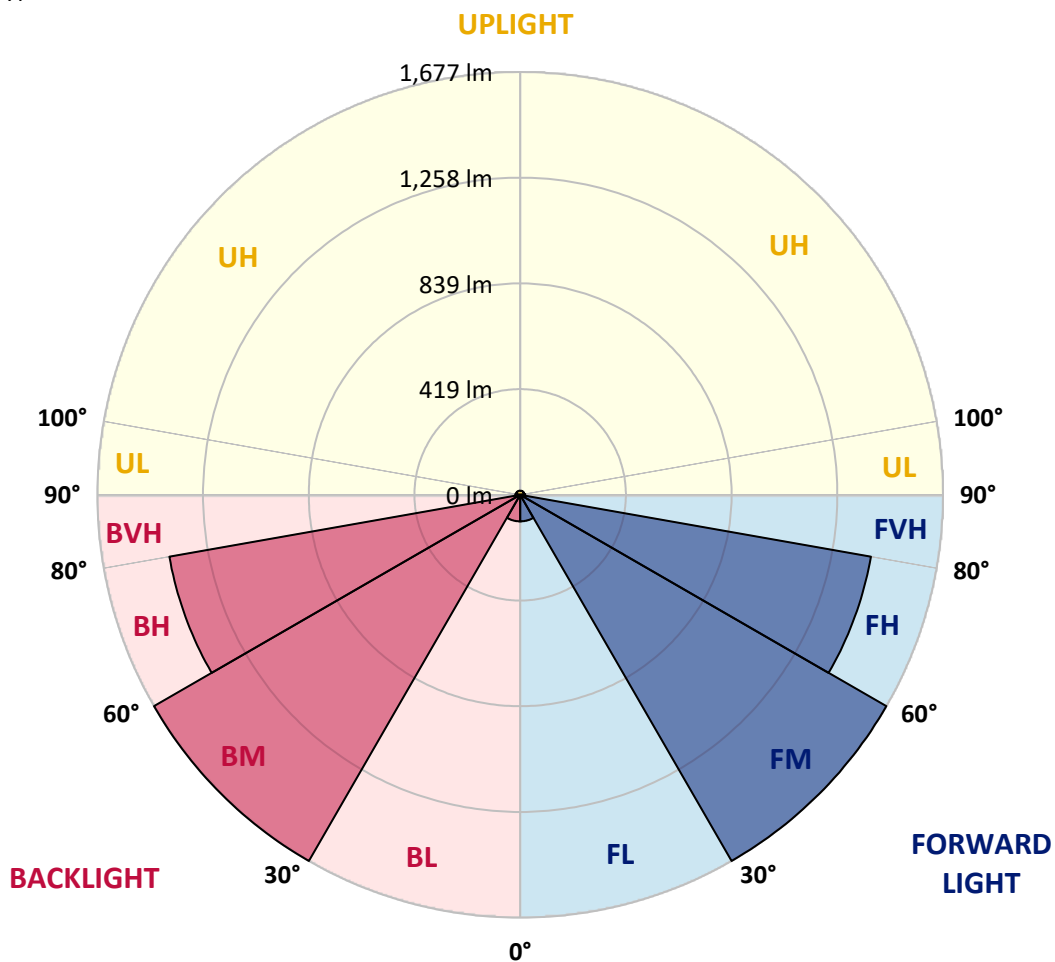
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	105.3	1.1			
FM	(30°-60°)	1677.3	17.7			
FH	(60°-80°)	1413.0	14.9			G1/1800
FVH	(80°-90°)	18.0	0.2			G1/100
BL	(0°-30°)	105.3	1.1	B0/110		
BM	(30°-60°)	1677.3	17.7	B2/2500		
BH	(60°-80°)	1413.0	14.9	B3/2500		G1/1800
BVH	(80°-90°)	18.0	0.2			G1/100
UL	(90°-100°)	19.7	0.2		U2/50	
UH	(100°-180°)	16.6	0.2		U2/50	
Trapped Light		3039.7	32.0			

**BUG Rating: B3-U2-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11	11	11	11	11	11	11	11	11	11	11
2.5°	10	10	11	11	11	11	11	11	11	12	12
5°	51	50	53	55	56	56	56	54	55	53	52
7.5°	128	130	133	138	142	141	139	132	135	134	137
10°	180	177	179	180	179	185	174	170	167	161	160
12.5°	193	195	194	185	195	191	184	181	180	180	182
15°	166	167	166	167	167	166	163	159	164	163	162
17.5°	124	126	126	129	131	133	129	127	124	125	124
20°	215	206	202	189	184	211	187	192	188	178	170
22.5°	254	235	209	223	234	265	257	273	261	279	288
25°	316	312	275	280	295	350	347	353	316	332	343
27.5°	387	427	348	368	369	426	413	437	387	437	436
30°	458	478	402	435	446	506	493	503	479	485	487
32.5°	518	554	463	490	495	555	540	547	522	519	529
35°	550	603	525	529	547	598	570	556	591	578	584
37.5°	595	627	591	565	601	610	644	666	671	642	642
40°	677	715	691	645	679	680	715	730	711	706	691
42.5°	779	804	800	731	814	801	854	843	830	830	829
45°	978	1006	1011	924	1036	989	1063	999	1042	1009	1022
47.5°	1173	1194	1226	1132	1293	1182	1315	1215	1327	1219	1226
50°	1502	1557	1611	1473	1716	1486	1727	1540	1705	1550	1511
52.5°	1895	1970	2056	1881	2194	1876	2155	1926	2185	2006	1885
55°	2297	2373	2487	2302	2614	2336	2621	2348	2688	2537	2381
57.5°	2684	2682	2791	2678	2933	2754	2992	2759	3061	2994	2872
60°	2873	2760	2894	2782	3001	2891	3051	2959	3158	3145	3214
62.5°	2790	2630	2759	2678	2813	2749	2885	2875	3018	2976	3146
65°	2490	2358	2452	2405	2488	2448	2562	2546	2658	2605	2789
67.5°	2021	1923	1972	1936	1998	1980	2067	2050	2131	2088	2266
70°	1371	1321	1359	1316	1369	1340	1408	1399	1434	1386	1556
72.5°	669	655	659	654	679	671	707	694	726	718	801
75°	267	268	263	265	255	260	262	265	262	263	274
77.5°	127	125	125	128	122	129	124	128	125	126	127
80°	59	59	59	60	60	62	60	62	61	64	63
82.5°	37	37	37	38	38	38	37	37	38	39	39
85°	29	29	29	30	31	31	29	30	30	31	31
87.5°	21	21	22	23	24	24	24	25	25	25	26
90°	18	19	19	20	20	20	20	22	22	22	22
92.5°	17	18	18	19	20	19	19	20	19	19	19
95°	17	17	17	19	20	18	18	20	19	19	18
97.5°	15	15	16	17	18	17	17	19	18	17	17
100°	13	13	14	15	16	15	15	16	16	15	14
102.5°	11	12	12	13	13	13	13	14	14	13	12
105°	9	10	10	11	11	11	11	12	12	11	11
107.5°	7	8	8	9	8	8	8	9	9	8	8
110°	4	4	4	4	4	4	4	4	4	4	4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2	2	2	2	2	2	2	2	2	2	2
115°	2	2	2	2	2	2	2	2	2	2	2
117.5°	1	1	1	1	1	1	1	1	1	1	1
120°	1	1	1	1	1	1	1	1	1	1	1
122.5°	1	1	1	1	1	1	1	1	1	1	1
125°	0	1	1	1	1	1	1	1	1	1	1
127.5°	0	0	0	1	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)