

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: H39510

Luminaire Tested: **ARC15SXX5C65XC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: H39510  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC15SXX5C65XC  
Description: STREETWORKS AVENUE ARC TYPE 5 CUT OFF POST TOP  
WITH GAGE, COPPER FINISH DECORATIVE CHIMNEY, ACRYLIC GLOBE  
Light Source: MOGUL BASE E23.5 CLEAR HIGH PRESSURE SODIUM LAMP  
LU150/U 150 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 16000 (1 lamp)  
Luminaire Lumens: 9691.9 lumens  
Efficiency: 60.6%  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B3 - U2 - G1

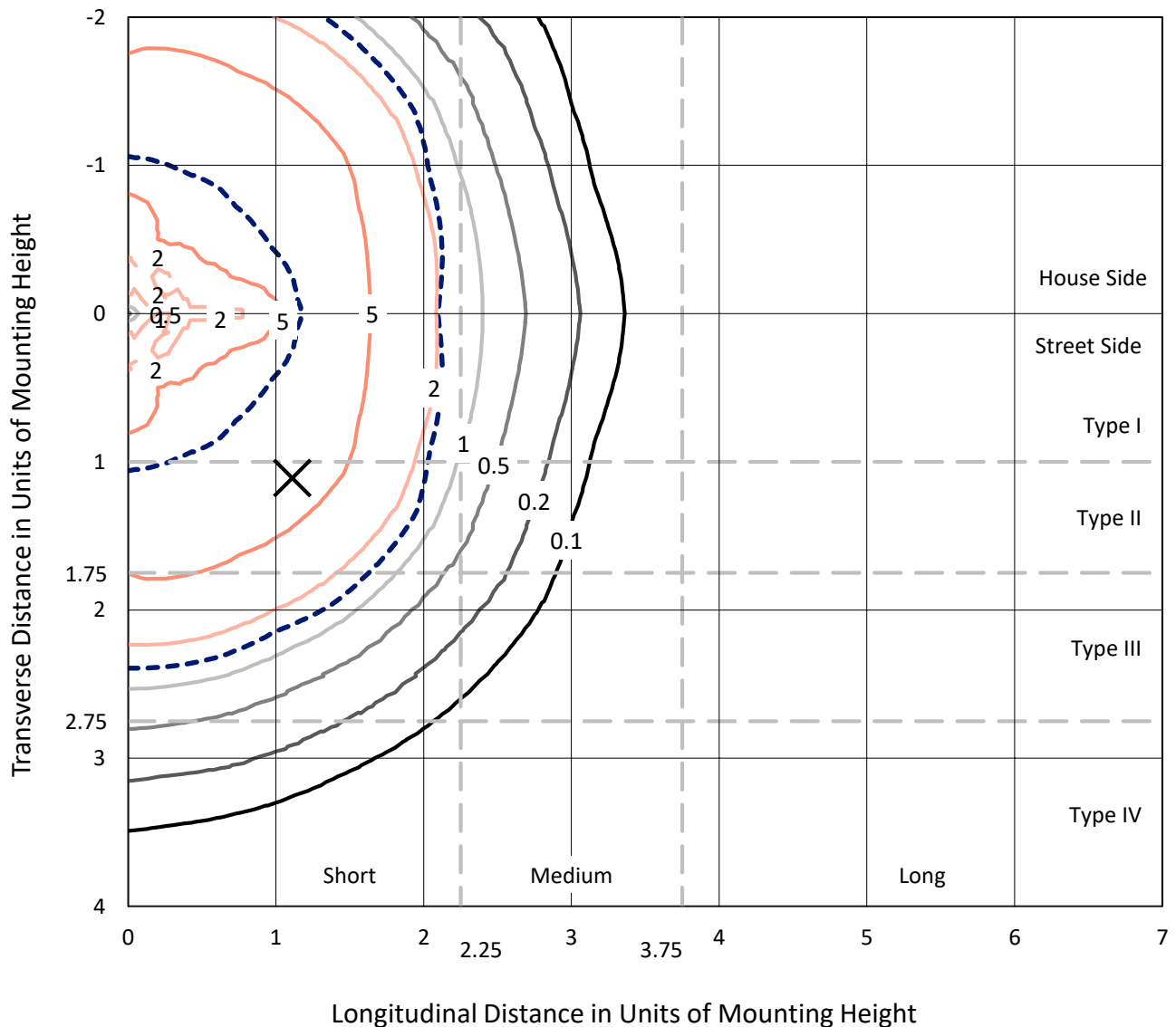
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

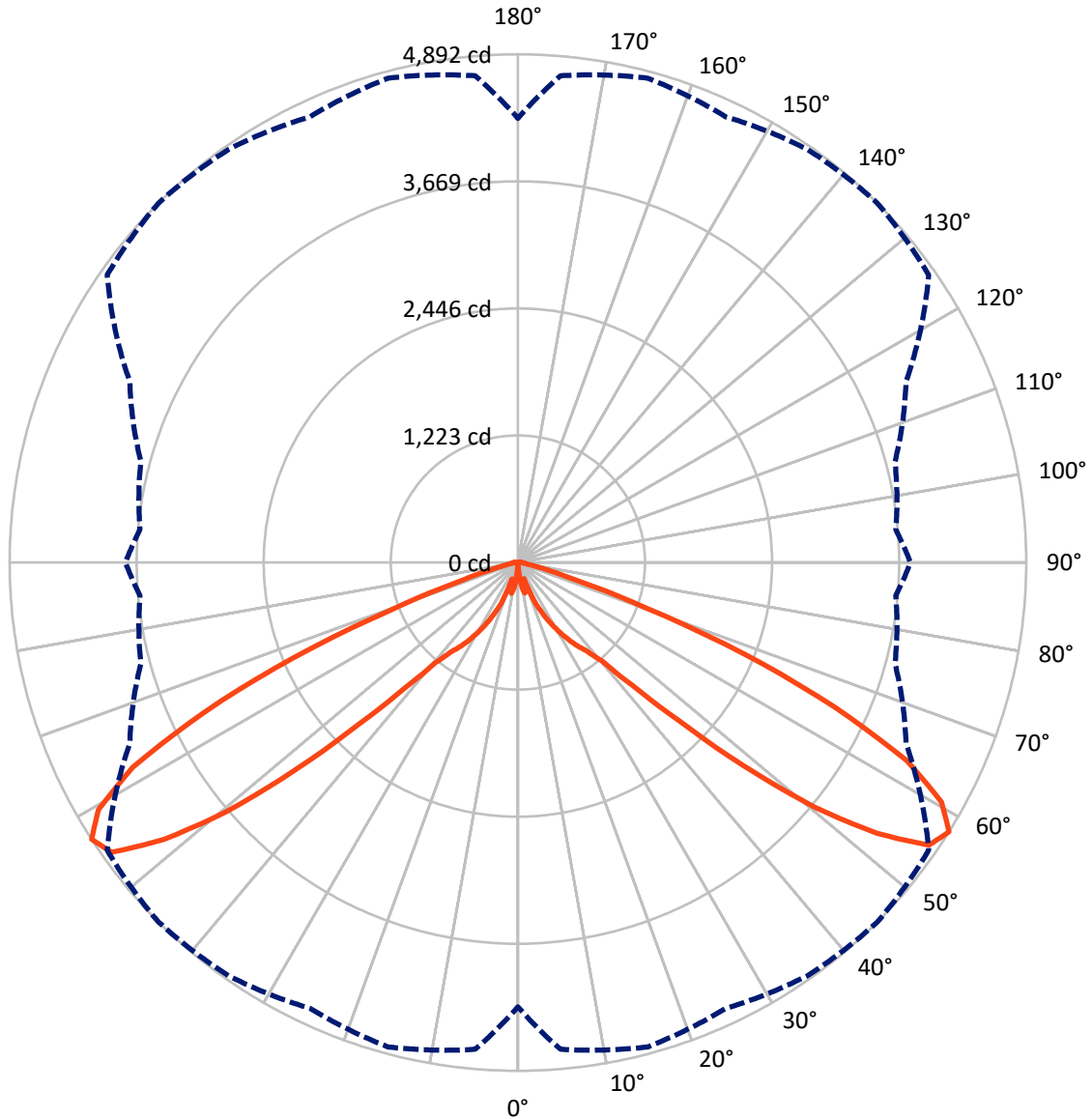
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc  
 Type V - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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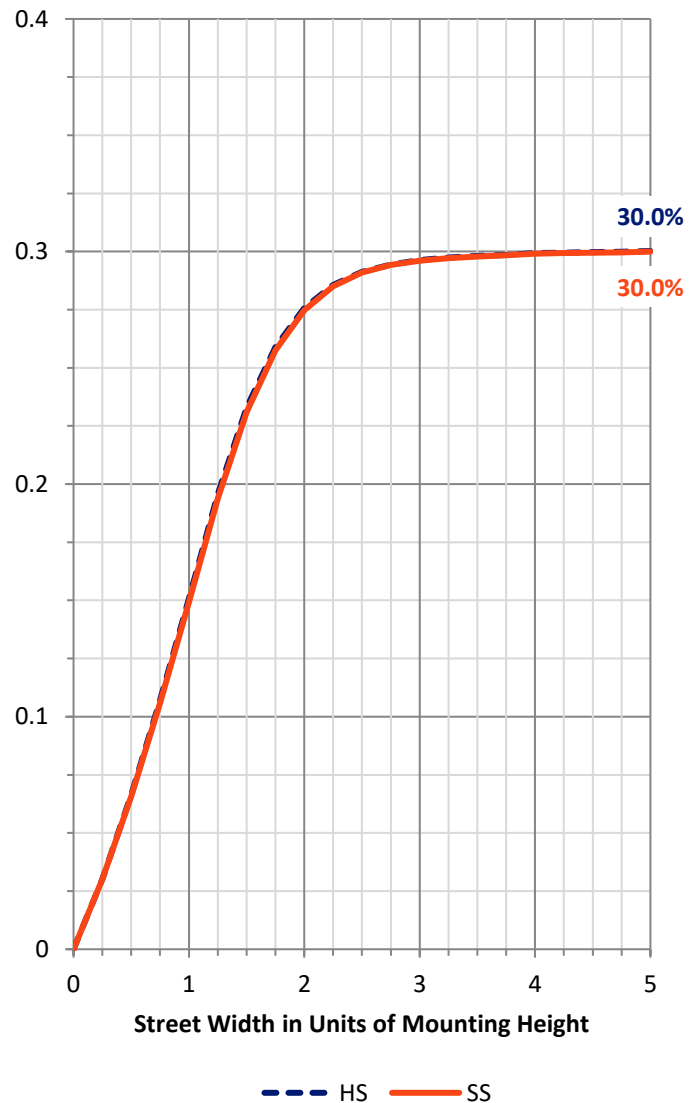
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4817.7	28.3	4846.0
	% Lamp	30.1	0.2	30.3
<b>Street Side</b>	Lumens	4817.7	28.3	4846.0
	% Lamp	30.1	0.2	30.3
<b>Total</b>	Lumens	9635.4	56.5	9691.9
	% Lamp	60.2	0.4	60.6

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	15.0	0.2	0.1
10°-20°	65.3	0.7	0.4
20°-30°	229.7	2.4	1.4
30°-40°	566.0	5.8	3.5
40°-50°	1630.9	16.8	10.2
50°-60°	3726.7	38.5	23.3
60°-70°	2908.3	30.0	18.2
70°-80°	437.6	4.5	2.7
80°-90°	55.9	0.6	0.3
90°-100°	31.8	0.3	0.2
100°-110°	17.8	0.2	0.1
110°-120°	3.8	0.0	0.0
120°-130°	1.4	0.0	0.0
130°-140°	0.9	0.0	0.0
140°-150°	0.6	0.0	0.0
150°-160°	0.2	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	9635.4	99.4	60.2
0°-180°	9691.9	100.0	60.6

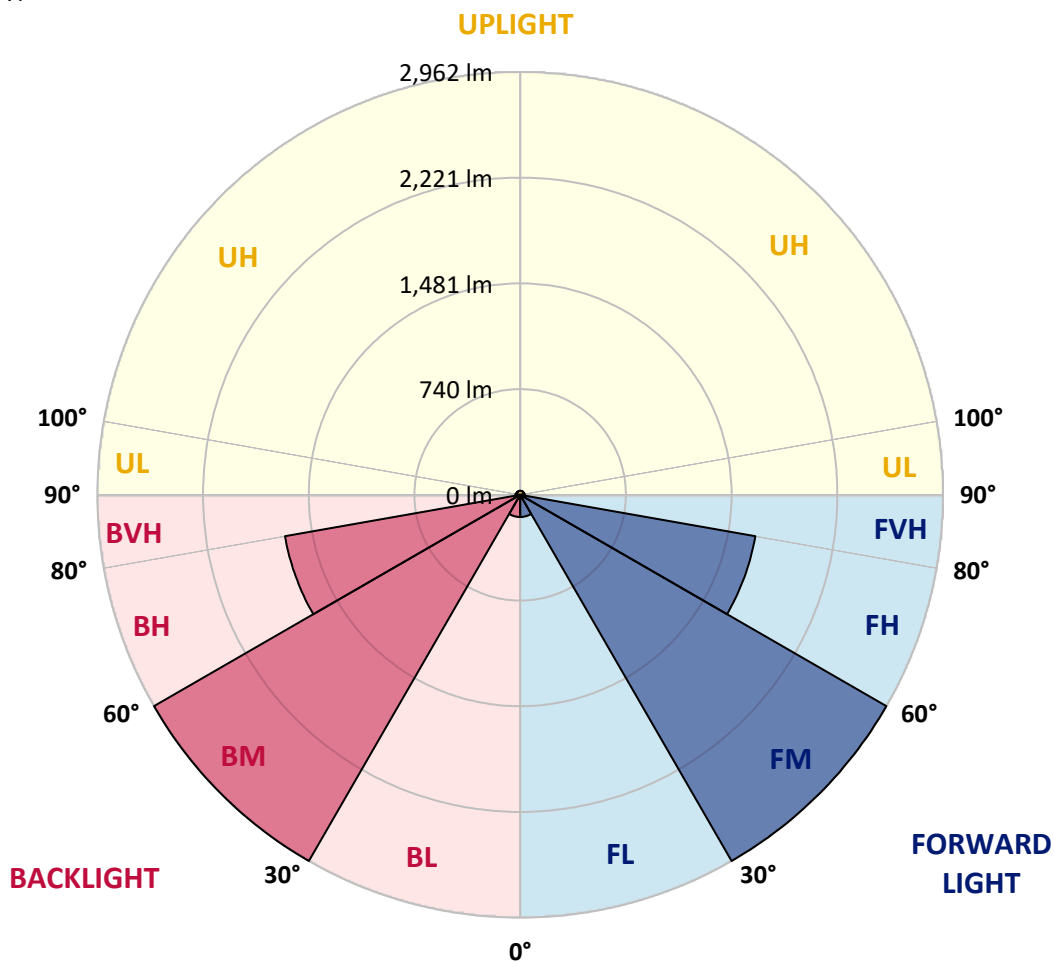


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.1	1.0			
FM	(30°-60°)	2961.8	18.5			
FH	(60°-80°)	1672.9	10.5			G1/1800
FVH	(80°-90°)	27.9	0.2			G1/100
BL	(0°-30°)	155.1	1.0	B1/500		
BM	(30°-60°)	2961.8	18.5	B3/5000		
BH	(60°-80°)	1672.9	10.5	B3/2500		G1/1800
BVH	(80°-90°)	27.9	0.2			G1/100
UL	(90°-100°)	31.8	0.2		U2/50	
UH	(100°-180°)	28.3	0.2		U2/50	
Trapped Light		6308.1	39.4			

**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°	37	37	37	37	37	37	37	37	37	37	37
2.5°	29	29	29	28	27	27	27	28	27	27	27
5°	85	89	86	87	86	87	79	74	72	70	71
7.5°	213	217	214	207	208	195	180	175	175	173	168
10°	302	297	302	299	300	266	243	241	262	268	267
12.5°	320	322	320	320	307	302	284	270	267	285	295
15°	271	268	267	263	266	265	250	228	214	232	232
17.5°	209	206	209	202	203	198	190	171	160	158	163
20°	172	178	177	175	174	166	161	140	132	129	127
22.5°	407	405	466	451	447	414	425	428	337	186	122
25°	520	512	577	592	580	525	516	513	453	246	135
27.5°	592	635	696	729	703	648	615	603	572	322	143
30°	676	711	739	799	795	758	727	719	678	410	175
32.5°	760	776	797	876	874	873	848	778	758	486	199
35°	836	866	909	969	985	982	947	906	906	565	234
37.5°	919	957	1050	1071	1073	1082	1065	1052	1012	636	288
40°	1106	1139	1234	1277	1230	1249	1229	1183	1123	743	389
42.5°	1465	1463	1590	1636	1568	1613	1571	1505	1390	1022	612
45°	2006	2009	2119	2185	2061	2164	2067	1974	1704	1453	1107
47.5°	2650	2727	2828	2928	2742	2916	2761	2600	2150	2061	1866
50°	3335	3449	3548	3662	3521	3699	3508	3247	2723	2719	2624
52.5°	3901	4062	4180	4227	4199	4330	4159	3767	3241	3237	3272
55°	4256	4546	4656	4667	4696	4800	4674	4090	3621	3612	3715
57.5°	4276	4703	4826	4734	4855	4892	4826	4121	3757	3651	3777
60°	4160	4515	4616	4490	4658	4683	4616	3893	3633	3381	3422
62.5°	3854	4091	4179	4034	4221	4197	4144	3516	3293	2995	2877
65°	3215	3308	3331	3211	3355	3342	3255	2749	2577	2373	2309
67.5°	2373	2380	2378	2273	2385	2344	2287	1924	1779	1726	1721
70°	1419	1381	1345	1293	1342	1307	1281	1022	950	1015	1078
72.5°	676	643	630	597	615	608	589	476	441	505	530
75°	349	325	317	313	313	310	302	256	224	254	261
77.5°	175	167	168	172	169	170	166	147	123	131	133
80°	92	89	92	95	93	96	94	84	68	66	67
82.5°	62	61	63	64	63	65	63	58	46	42	42
85°	50	50	52	52	51	52	51	48	40	34	35
87.5°	41	41	42	42	41	43	42	39	32	27	27
90°	36	36	37	37	35	38	38	35	27	23	23
92.5°	34	33	34	34	32	34	34	32	26	21	20
95°	32	32	32	32	31	32	32	31	25	20	18
97.5°	29	29	29	29	28	30	30	28	23	18	16
100°	25	25	26	25	24	26	26	24	21	15	13
102.5°	22	22	22	21	21	23	23	21	19	13	10
105°	19	19	19	18	18	19	19	19	17	11	8
107.5°	15	15	14	14	14	15	15	14	13	8	6
110°	8	8	8	7	7	8	8	7	7	5	5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	5	5	5	4	4	4	5	5	4	4	4
115°	4	4	3	3	3	3	4	4	4	3	3
117.5°	3	3	3	2	2	3	3	3	3	3	2
120°	3	2	2	2	2	2	2	3	2	2	2
122.5°	2	2	2	1	1	1	2	2	2	2	2
125°	2	2	1	1	1	1	2	2	2	1	1
127.5°	2	2	1	1	1	1	2	2	2	1	1
130°	2	2	1	1	1	1	2	2	2	1	1
132.5°	2	1	1	1	1	1	1	2	1	1	1
135°	1	1	1	1	1	1	1	2	1	1	1
137.5°	1	1	1	1	1	1	1	2	1	1	1
140°	1	1	1	1	1	1	1	1	1	1	1
142.5°	1	1	1	1	1	1	1	1	1	1	1
145°	1	1	1	1	1	1	1	1	1	1	1
147.5°	1	1	1	1	1	1	1	1	1	1	1
150°	1	1	1	1	1	1	1	1	1	1	1
152.5°	1	1	1	1	1	1	1	1	1	1	1
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)