

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: H39511

Luminaire Tested: **ARC15SXX5CX5XC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H39511
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15SXX5CX5XC
Description: MSTREETWORKS CLASSIC ACN TYPE 5 CUT OFF POST TOP
WITH 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: 10842.2 lumens
Efficiency: 67.8%
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U2 - G2

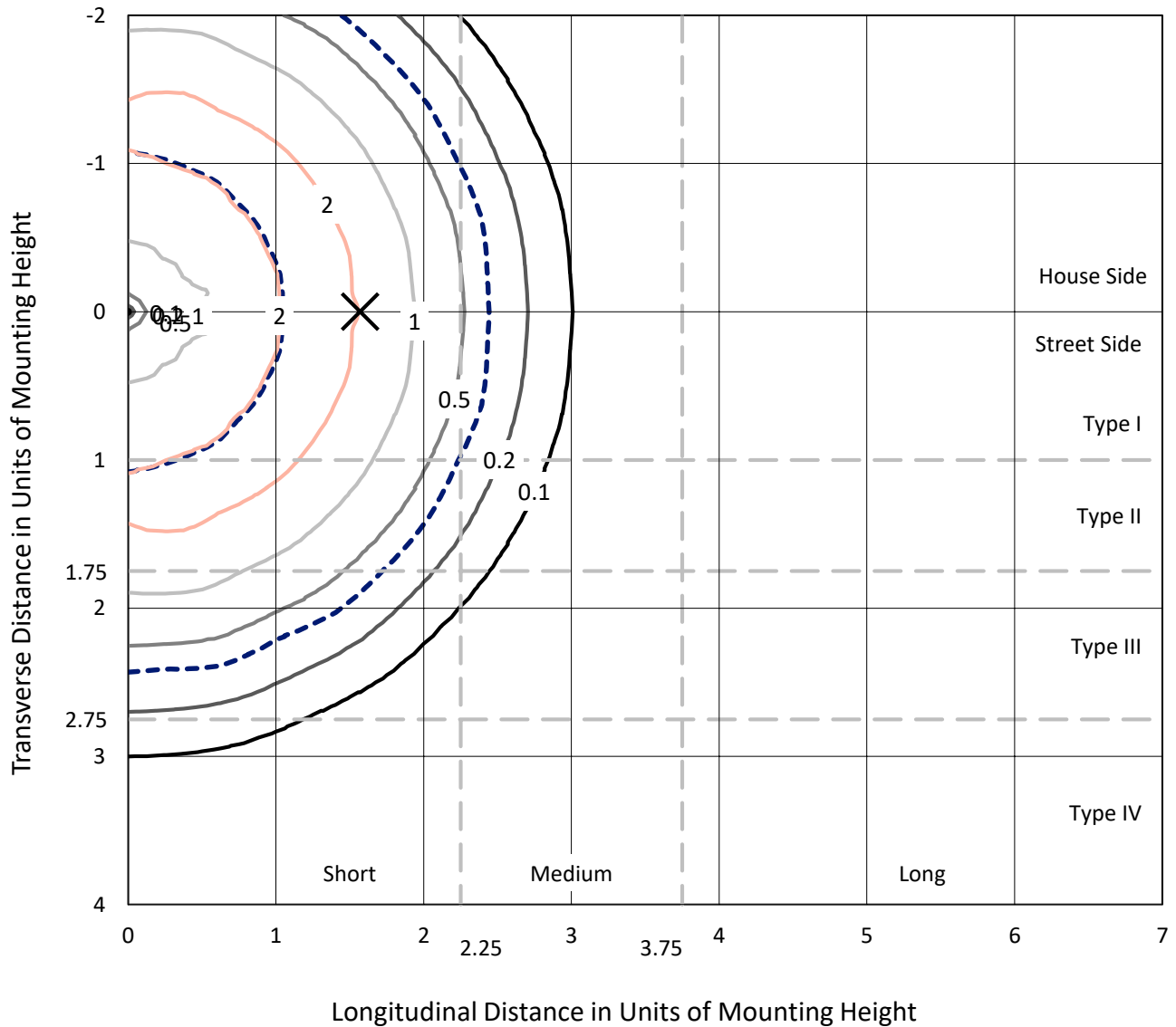
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

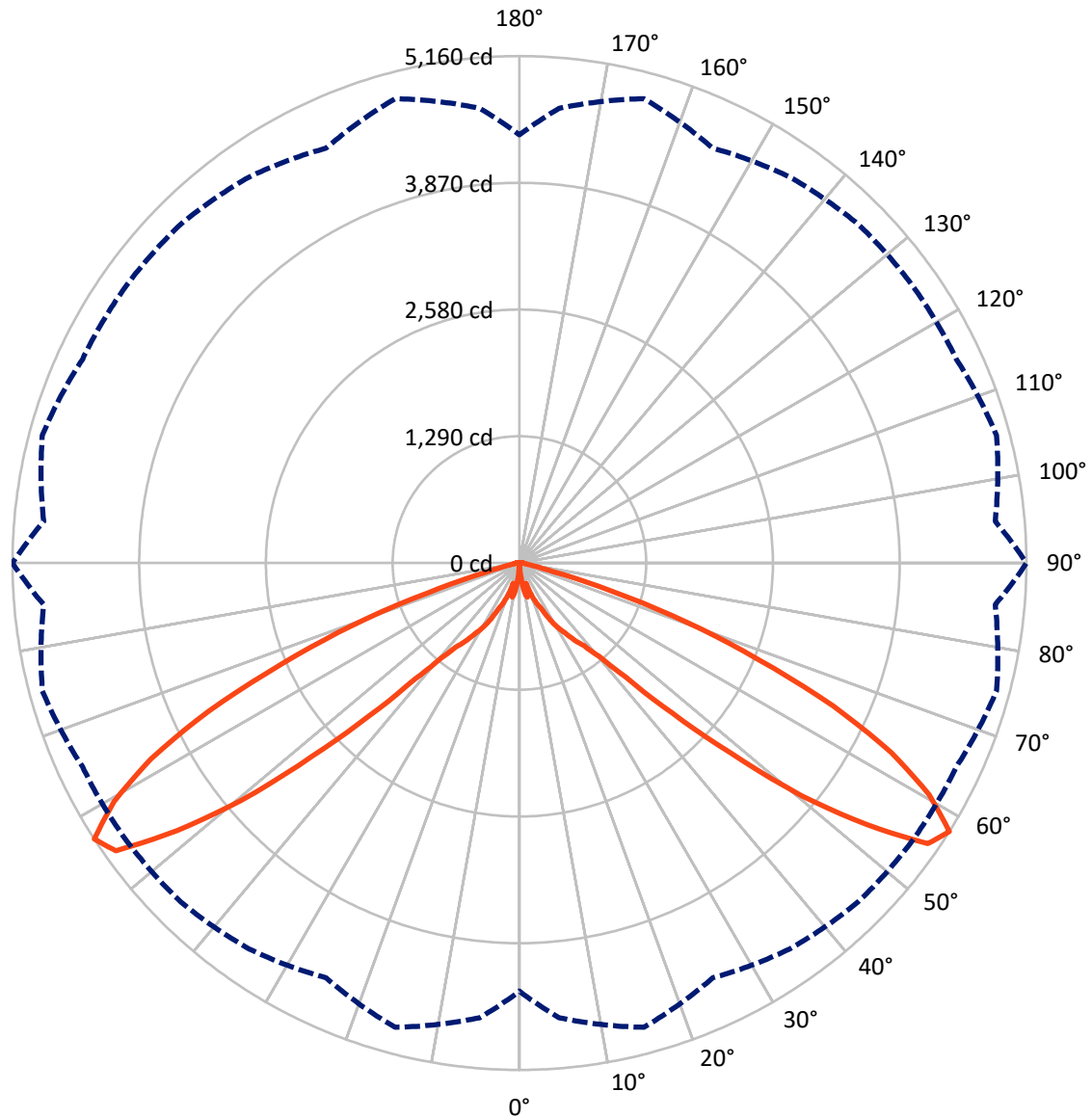
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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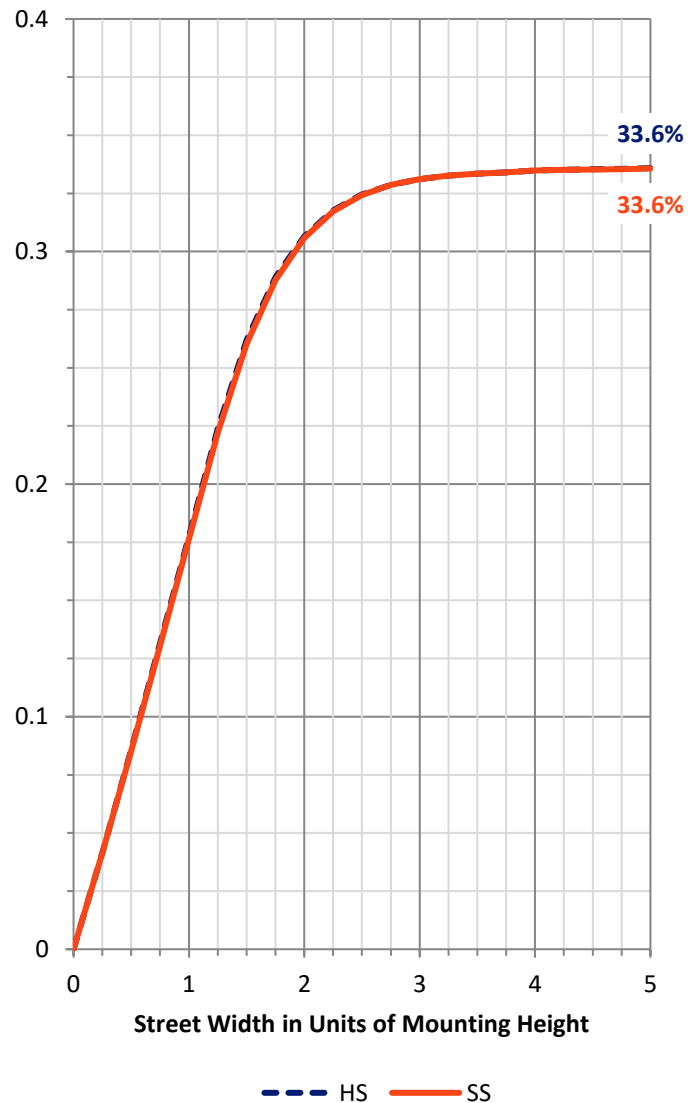
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5387.7	33.4	5421.1
	% Lamp	33.7	0.2	33.9
Street Side	Lumens	5387.7	33.4	5421.1
	% Lamp	33.7	0.2	33.9
Total	Lumens	10775.3	66.9	10842.2
	% Lamp	67.3	0.4	67.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	17.5	0.2	0.1
10°-20°	82.8	0.8	0.5
20°-30°	259.9	2.4	1.6
30°-40°	608.7	5.6	3.8
40°-50°	1758.4	16.2	11.0
50°-60°	4035.1	37.2	25.2
60°-70°	3314.6	30.6	20.7
70°-80°	639.8	5.9	4.0
80°-90°	58.6	0.5	0.4
90°-100°	34.3	0.3	0.2
100°-110°	20.1	0.2	0.1
110°-120°	5.6	0.1	0.0
120°-130°	3.0	0.0	0.0
130°-140°	2.3	0.0	0.0
140°-150°	1.3	0.0	0.0
150°-160°	0.4	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	10775.3	99.4	67.3
0°-180°	10842.2	100.0	67.8



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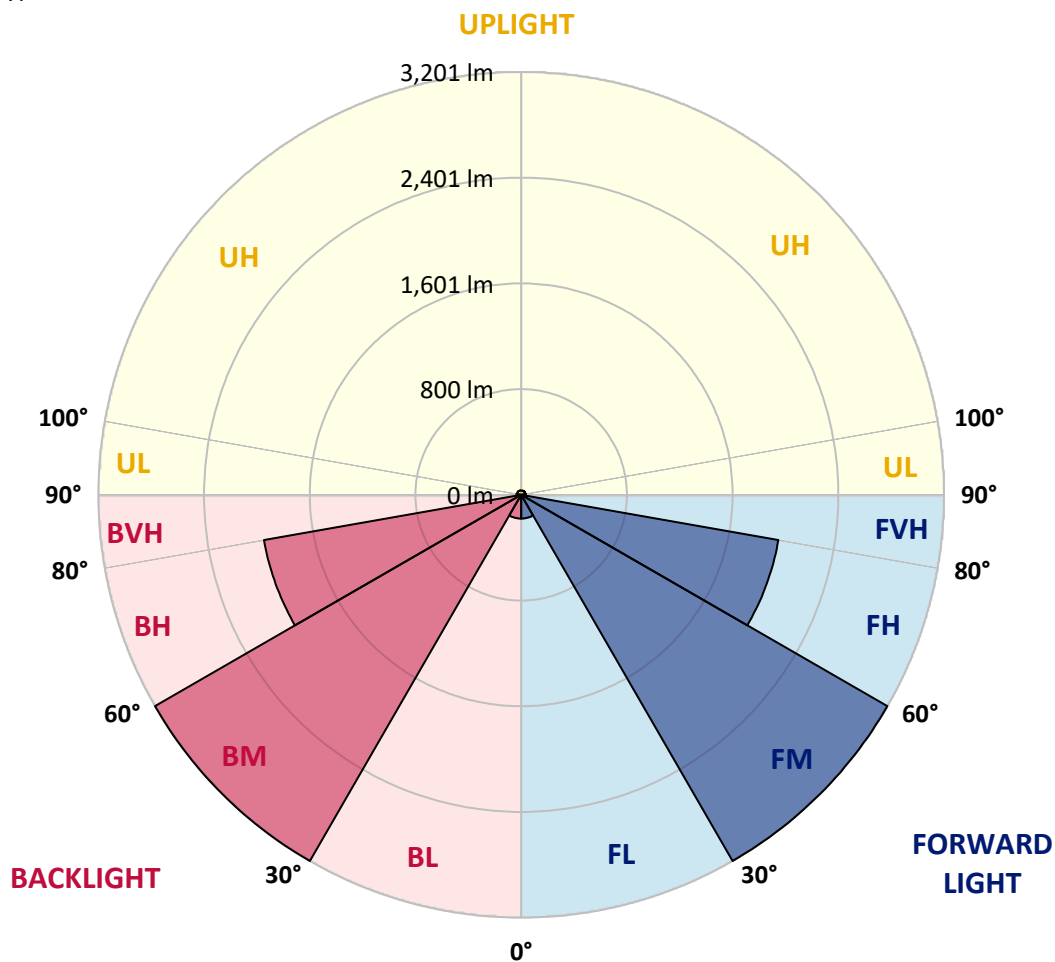
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.1	1.1			
FM	(30°-60°)	3201.1	20.0			
FH	(60°-80°)	1977.2	12.4			G2/5000
FVH	(80°-90°)	29.3	0.2			G1/100
BL	(0°-30°)	180.1	1.1	B1/500		
BM	(30°-60°)	3201.1	20.0	B3/5000		
BH	(60°-80°)	1977.2	12.4	B3/2500		G2/5000
BVH	(80°-90°)	29.3	0.2			G1/100
UL	(90°-100°)	34.3	0.2		U2/50	
UH	(100°-180°)	33.4	0.2		U2/50	
Trapped Light		5157.8	32.2			

BUG Rating: B3-U2-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	19	19	19	19	19	19	19	19	19	19	19
2.5°	17	17	17	17	17	17	17	17	17	17	17
5°	94	95	97	95	96	99	98	94	101	102	100
7.5°	224	223	224	221	226	227	226	226	235	228	226
10°	323	321	323	326	327	333	326	326	323	321	320
12.5°	334	343	345	346	347	351	352	349	348	346	356
15°	281	282	280	284	289	291	288	292	288	291	280
17.5°	225	225	222	220	227	223	224	217	215	214	217
20°	345	330	327	346	358	337	347	361	322	307	338
22.5°	442	424	430	481	480	465	460	480	404	417	442
25°	524	512	543	592	597	589	583	570	458	494	509
27.5°	626	620	654	710	721	709	659	655	533	599	639
30°	684	701	759	787	804	817	764	781	634	731	754
32.5°	763	779	884	863	889	924	888	861	712	839	843
35°	856	860	973	983	983	1012	988	968	864	957	963
37.5°	917	963	1049	1056	1080	1062	1094	1111	1021	1055	1068
40°	1106	1125	1202	1225	1263	1219	1247	1268	1200	1196	1251
42.5°	1467	1472	1578	1598	1609	1589	1622	1650	1563	1588	1586
45°	1993	2017	2117	2141	2083	2159	2148	2179	2070	2171	2177
47.5°	2622	2745	2836	2852	2754	2942	2827	2904	2803	2870	2881
50°	3278	3461	3594	3574	3519	3733	3571	3701	3655	3661	3723
52.5°	3907	4095	4241	4151	4199	4364	4243	4409	4393	4298	4424
55°	4322	4548	4772	4589	4661	4833	4764	4850	4912	4745	5044
57.5°	4358	4646	4892	4658	4796	4876	4897	4907	5027	4861	5160
60°	4235	4413	4720	4404	4601	4602	4666	4609	4770	4597	4792
62.5°	3905	3985	4236	3976	4145	4132	4186	4125	4258	4103	4248
65°	3302	3300	3504	3310	3473	3427	3486	3420	3531	3421	3510
67.5°	2606	2567	2708	2588	2700	2664	2688	2642	2724	2622	2621
70°	1788	1787	1869	1773	1862	1813	1842	1807	1848	1793	1811
72.5°	957	957	961	912	965	926	945	958	997	953	979
75°	395	372	368	353	363	354	350	356	365	361	350
77.5°	181	172	170	176	178	175	172	171	177	175	169
80°	90	87	88	91	92	89	90	91	93	90	87
82.5°	60	59	60	63	63	61	60	61	61	58	57
85°	49	49	50	52	51	50	50	51	50	48	47
87.5°	40	39	40	41	41	41	41	44	43	39	38
90°	35	35	35	37	36	36	36	39	37	35	35
92.5°	32	33	33	34	34	33	33	35	34	32	31
95°	31	31	32	33	32	32	32	34	33	30	30
97.5°	28	28	29	29	29	29	29	32	30	27	27
100°	25	25	26	26	26	26	26	28	26	24	24
102.5°	22	22	23	23	23	22	23	25	23	21	21
105°	19	20	20	20	20	20	20	22	20	18	18
107.5°	15	15	15	16	16	16	16	16	15	14	14
110°	9	9	9	9	9	9	9	9	9	8	8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	6	6	6	6	6	6	6	6	6	6	6
115°	5	5	5	6	5	5	5	5	5	5	5
117.5°	5	4	5	5	5	5	5	5	5	5	4
120°	4	4	4	4	4	4	4	4	4	4	4
122.5°	4	4	4	4	4	4	4	4	4	3	3
125°	3	3	3	3	3	3	3	3	3	3	3
127.5°	3	3	3	3	3	3	3	3	3	3	3
130°	3	3	3	3	3	3	3	3	3	3	3
132.5°	3	3	3	3	3	3	3	3	3	3	3
135°	3	3	3	3	3	3	3	3	3	3	3
137.5°	3	3	3	3	3	3	3	3	3	3	2
140°	2	2	3	3	3	2	2	2	2	2	2
142.5°	2	2	2	2	2	2	2	2	2	2	2
145°	2	2	2	2	2	2	2	2	2	2	2
147.5°	2	2	2	2	2	2	2	2	2	2	2
150°	2	2	2	2	2	2	2	2	2	2	2
152.5°	2	2	2	2	2	2	2	2	2	2	2
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)