

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P583805

Luminaire Tested: **HCC8W10D010SL-HM80520935-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W10D010SL-HM80520935-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

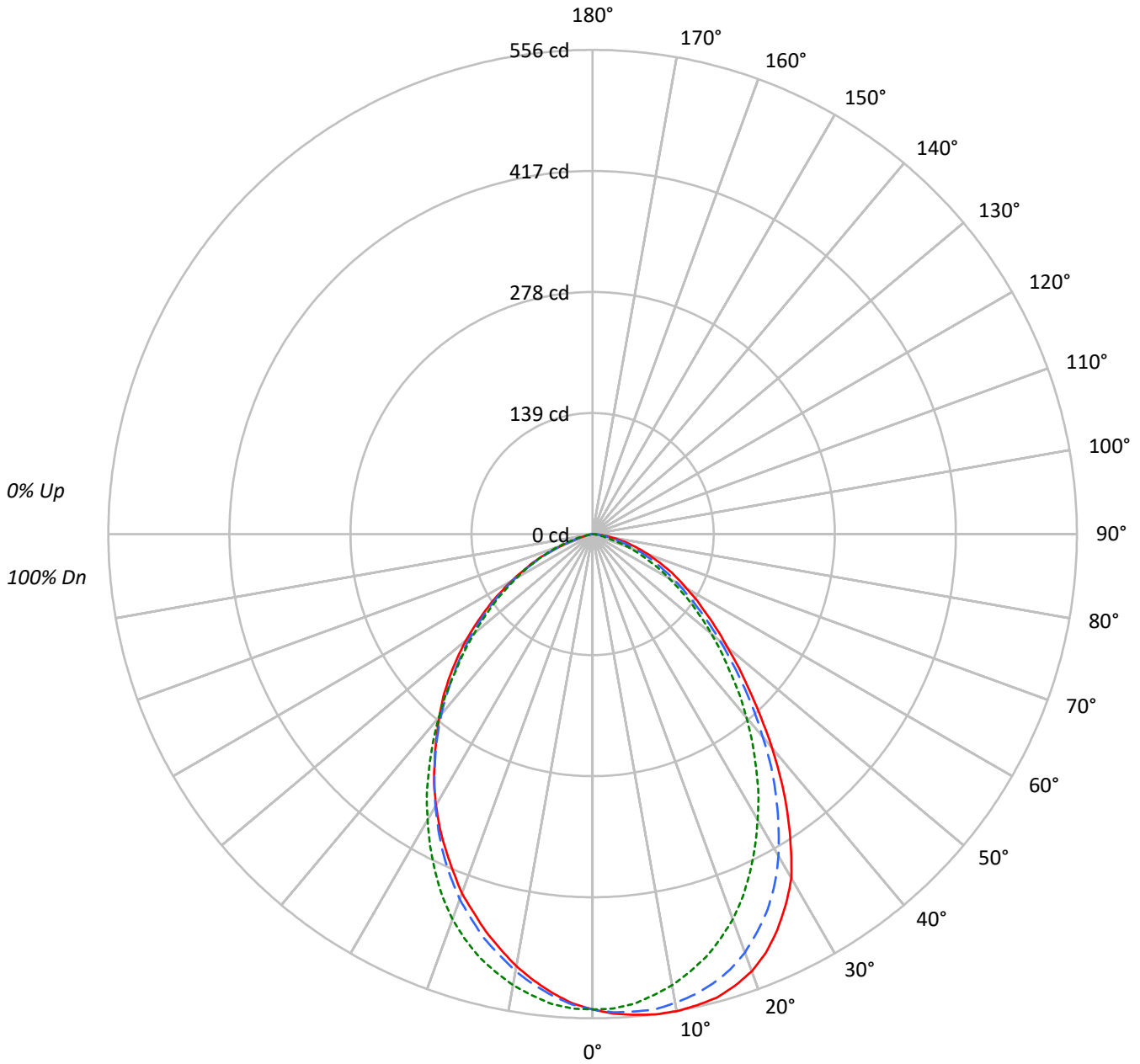
Lumens per Lamp: N/A
Luminaire Lumens: 1023.5 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: P583805
CATALOG NUMBER: HCC8W10D010SL-HM80520935-81RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P583805

CATALOG NUMBER: HCC8W10D010SL-HM80520935-81RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59					59			
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47					47			
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35					35			
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16834	16834	16834
5°	17152	16762	16372
10°	17419	16470	15775
15°	17593	16058	15091
20°	17530	15440	14396
25°	17066	14549	13589
30°	16251	13488	12801
35°	14674	12306	11892
40°	12893	11046	11018
45°	11129	9707	10130
50°	9686	8515	9086
55°	8586	7398	7914
60°	7666	6247	6568
65°	6910	5078	5181
70°	6131	3805	3065
75°	5290	2204	1322
80°	4084	781	391
85°	2654	248	248



TEST NUMBER: P583805
 CATALOG NUMBER: HCC8W10D010SL-HM80520935-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	5.0
10°-20°	142.7	13.9
20°-30°	201.8	19.7
30°-40°	212.6	20.8
40°-50°	180.7	17.7
50°-60°	130.1	12.7
60°-70°	75.1	7.3
70°-80°	25.7	2.5
80°-90°	3.5	0.3
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°-30°	395.7	38.7
0°-40°	608.3	59.4
0°-60°	919.2	89.8
0°-90°	1023.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1023.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	546	546	546	546	546	
5°	554	550	542	532	529	53
15°	551	534	503	481	473	155
25°	502	476	428	405	399	230
35°	390	367	327	315	316	243
45°	255	243	223	224	232	198
55°	160	147	138	143	147	144
65°	95	81	70	68	71	94
75°	44	33	18	12	11	47
85°	8	4	1	1	1	10
90°	0	0	0	0	0	



TEST NUMBER: P583805

CATALOG NUMBER: HCC8W10D010SL-HM80520935-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	551.1	551.8	551.1	551.1	550.4	549.7	549.0	548.1	546.7	545.2	545.2
5°	554.1	555.6	554.1	554.1	551.8	550.4	549.0	546.7	543.8	541.5	541.5
7.5°	556.3	556.3	556.3	554.1	552.6	550.4	546.7	542.9	539.3	535.6	534.2
10°	556.3	556.3	555.6	552.6	551.1	546.7	542.9	537.8	532.6	527.4	526.0
12.5°	554.1	554.8	553.4	550.4	546.7	541.5	536.3	529.7	523.7	517.8	514.9
15°	551.1	550.4	549.0	545.2	540.8	534.2	528.9	521.5	513.4	506.0	503.0
17.5°	543.8	543.8	541.5	537.8	531.9	524.6	516.4	508.2	499.3	491.3	487.5
20°	534.2	534.2	531.2	526.7	520.8	511.2	502.3	492.7	482.4	474.2	470.5
22.5°	520.1	520.8	517.1	511.9	505.2	494.1	485.2	473.5	463.1	453.5	450.5
25°	501.6	503.0	499.3	494.1	485.2	475.6	464.6	453.5	441.6	432.0	427.6
27.5°	480.1	480.8	477.2	472.0	463.1	452.8	441.6	429.8	418.7	408.3	403.9
30°	456.4	453.5	452.0	445.3	435.7	426.8	414.3	404.6	392.8	383.9	378.8
32.5°	423.1	424.7	420.2	415.1	407.6	397.3	386.9	375.7	364.7	358.1	354.3
35°	389.8	391.4	389.1	383.9	375.7	367.0	356.5	348.5	338.8	330.7	326.9
37.5°	355.1	355.1	353.6	350.6	344.7	336.6	326.2	318.0	310.0	303.3	301.1
40°	320.3	318.9	318.0	315.9	310.7	303.3	296.7	290.0	281.9	277.4	274.4
42.5°	286.3	286.3	284.8	282.6	277.4	273.7	267.1	259.6	253.7	249.3	249.3
45°	255.2	255.9	253.7	252.3	249.3	243.4	237.5	232.3	227.1	224.2	222.6
47.5°	227.9	227.9	225.6	224.2	221.2	216.0	210.8	206.4	202.7	200.5	199.8
50°	201.9	201.9	201.9	198.2	194.6	190.9	187.2	182.0	179.8	178.3	177.5
52.5°	179.8	179.0	179.0	176.1	172.4	167.9	164.2	159.7	157.6	156.1	156.9
55°	159.7	159.7	159.0	155.3	151.7	147.2	143.5	139.8	138.4	136.9	137.6
56°	151.7	151.7	151.0	148.0	143.5	139.8	135.3	131.6	129.5	130.2	130.2
57°	145.7	144.2	144.2	140.5	136.9	131.6	128.0	124.3	122.8	122.0	122.0
58°	138.4	137.6	136.9	133.2	129.5	125.0	121.3	117.7	115.4	115.4	114.7
59°	130.9	130.9	129.5	126.5	122.8	118.4	114.7	110.9	108.8	108.1	108.1
60°	124.3	125.0	122.8	119.8	116.8	111.7	107.2	104.3	102.0	101.3	101.3
61°	118.4	118.4	116.8	113.2	109.5	105.8	101.3	97.6	96.2	94.7	94.7
62°	113.2	111.7	110.9	107.2	103.6	99.2	95.4	91.7	89.5	88.0	88.8
63°	106.5	105.8	104.3	101.3	97.6	93.2	88.8	85.8	83.5	81.4	82.1
64°	101.3	100.6	98.4	95.4	91.7	87.3	82.8	79.9	78.4	76.2	75.5
65°	94.7	94.0	93.2	89.5	85.8	81.4	77.6	74.8	72.5	71.0	69.6
66°	88.8	89.5	88.0	85.1	80.7	76.9	71.8	68.8	67.3	65.1	63.6
67°	83.5	83.5	82.1	79.2	74.8	71.0	67.3	63.6	61.4	59.1	58.4
67.5°	80.7	80.7	79.2	75.5	72.5	68.0	64.3	61.4	58.4	57.0	55.5
68°	77.6	77.6	76.9	73.9	70.3	65.9	62.1	58.4	55.5	53.2	52.5
69°	72.5	73.2	71.8	68.8	65.1	60.7	57.0	54.0	51.1	48.8	47.4
70°	68.0	67.3	65.9	62.9	59.1	56.3	52.5	48.8	45.9	42.9	42.2
71°	62.1	62.1	60.7	58.4	54.7	51.1	47.4	44.4	41.5	37.7	37.0
72°	57.7	57.7	56.3	53.2	50.4	46.6	42.9	39.2	37.0	33.3	31.9
72.5°	54.7	55.5	54.0	51.1	48.1	43.6	40.6	37.7	34.0	31.0	29.6
73°	53.2	52.5	51.8	48.8	45.1	42.2	38.5	35.5	31.9	28.8	27.4



TEST NUMBER: P583805
 CATALOG NUMBER: HCC8W10D010SL-HM80520935-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	33.3	33.3	32.6	29.6	26.7	23.7	20.7	17.8	14.8	11.8	10.3
80°	23.0	23.7	22.2	20.7	18.5	15.5	12.6	10.3	7.5	5.9	4.4
82.5°	14.8	14.8	14.1	12.6	11.1	8.9	7.5	5.2	3.7	3.0	2.2
85°	7.5	8.2	7.5	6.6	5.2	4.4	3.7	2.2	1.4	0.7	0.7
87.5°	3.0	3.0	3.0	2.2	2.2	1.4	0.7	0.7	0.7	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



TEST NUMBER: P583805

CATALOG NUMBER: HCC8W10D010SL-HM80520935-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	543.8	543.8	542.2	541.5	540.8	540.1	539.3	538.5	538.5	539.3
5°	539.3	537.8	534.9	534.2	531.9	531.2	529.7	528.9	529.7	528.9
7.5°	532.6	529.7	526.0	524.6	521.5	520.1	517.8	517.8	516.4	517.1
10°	523.7	519.3	514.9	511.9	509.6	507.5	506.0	504.5	503.8	503.8
12.5°	512.7	507.5	503.0	498.6	494.9	493.4	490.4	490.4	489.0	488.3
15°	500.0	493.4	488.3	483.8	480.8	477.9	475.6	474.2	472.7	472.7
17.5°	483.8	477.9	472.7	467.6	463.1	460.8	458.7	456.4	456.4	455.0
20°	466.0	459.4	455.0	449.8	446.1	442.3	439.5	439.5	437.9	438.7
22.5°	446.1	437.9	433.6	429.8	426.1	423.1	420.2	420.2	419.5	418.7
25°	423.9	417.2	412.0	407.6	405.4	402.4	401.7	400.3	399.4	399.4
27.5°	400.3	395.0	388.4	386.2	383.2	381.8	381.8	381.0	379.5	380.2
30°	375.0	369.1	365.4	364.0	361.0	361.0	360.2	358.8	358.8	359.5
32.5°	350.6	344.7	341.7	341.0	338.1	338.1	337.3	338.1	338.1	338.8
35°	324.1	318.9	318.0	315.9	315.2	315.2	315.2	316.6	318.0	315.9
37.5°	298.8	295.2	292.9	292.2	292.9	292.9	293.6	295.9	295.2	294.4
40°	273.0	270.0	268.5	268.5	270.0	271.5	271.5	273.7	274.4	273.7
42.5°	247.1	244.8	244.8	245.6	247.1	247.9	250.0	252.3	253.0	253.7
45°	222.6	222.6	222.6	223.5	224.2	225.6	228.6	230.8	231.5	232.3
47.5°	199.1	198.2	200.5	201.2	203.4	204.2	206.4	209.4	210.1	210.8
50°	176.8	178.3	179.0	181.3	182.7	182.7	185.7	187.2	189.4	189.4
52.5°	156.1	158.3	159.0	161.3	162.0	162.8	164.2	166.5	167.9	167.9
55°	137.6	138.4	139.8	140.5	142.8	143.5	145.0	145.7	148.0	147.2
56°	129.5	130.9	131.6	133.2	134.6	135.3	136.9	137.6	139.1	139.8
57°	122.0	122.8	125.0	125.7	127.3	127.3	128.0	130.2	130.2	130.9
58°	114.7	116.1	116.8	117.7	119.1	119.8	121.3	122.0	122.8	122.0
59°	108.1	108.8	109.5	109.5	110.9	110.9	113.2	114.7	115.4	115.4
60°	101.3	101.3	102.0	102.8	104.3	105.1	105.1	106.5	106.5	106.5
61°	94.7	94.7	95.4	96.2	96.9	96.9	98.4	98.4	99.2	99.9
62°	88.8	88.0	88.0	88.8	88.8	90.3	91.0	91.7	92.4	91.7
63°	82.1	81.4	81.4	81.4	81.4	82.8	82.8	83.5	85.1	84.4
64°	74.8	74.8	74.8	74.8	75.5	75.5	76.9	77.6	78.4	79.2
65°	69.6	68.0	67.3	67.3	68.0	68.8	69.6	70.3	71.0	71.0
66°	63.6	62.1	61.4	61.4	61.4	61.4	62.9	62.9	64.3	64.3
67°	57.0	55.5	54.7	54.0	54.0	54.0	56.3	55.5	55.5	55.5
67.5°	54.7	52.5	51.8	51.1	50.4	51.8	51.1	51.8	51.8	51.1
68°	51.8	50.4	48.8	47.4	47.4	47.4	48.1	48.8	48.1	47.4
69°	45.9	45.1	42.9	41.5	40.6	41.5	40.6	41.5	40.6	41.5
70°	40.6	38.5	36.3	35.5	34.7	34.7	34.7	34.0	34.7	34.0
71°	35.5	33.3	31.0	29.6	28.8	28.8	28.1	28.8	28.1	28.8
72°	30.3	28.1	25.1	23.7	23.7	23.7	23.7	23.0	23.7	23.0
72.5°	28.1	25.1	23.0	21.4	20.7	20.7	20.7	20.7	20.0	20.7
73°	25.8	23.0	20.0	19.2	19.2	19.2	18.5	17.8	18.5	18.5



TEST NUMBER: P583805
CATALOG NUMBER: HCC8W10D010SL-HM80520935-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	8.9	6.6	5.9	5.9	5.9	5.9	5.9	5.9	5.2	5.2
80°	3.7	3.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	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

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



74°	48.1	48.1	46.6	44.4	40.6	37.0	34.0	31.0	27.4	23.7	22.2
75°	44.4	43.6	42.2	39.9	37.0	33.3	30.3	26.7	23.7	20.0	18.5

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



74°	21.4	17.8	16.2	14.8	14.8	14.8	14.1	14.1	14.1	14.8
75°	17.1	14.1	12.6	11.1	11.8	11.1	11.8	11.1	11.1	11.1

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)