

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: INVUE

Report Number: P140260

Luminaire Tested: **ECM-E01-LED-E1-5MQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140260  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-E01-LED-E1-5MQ  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3053.8 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

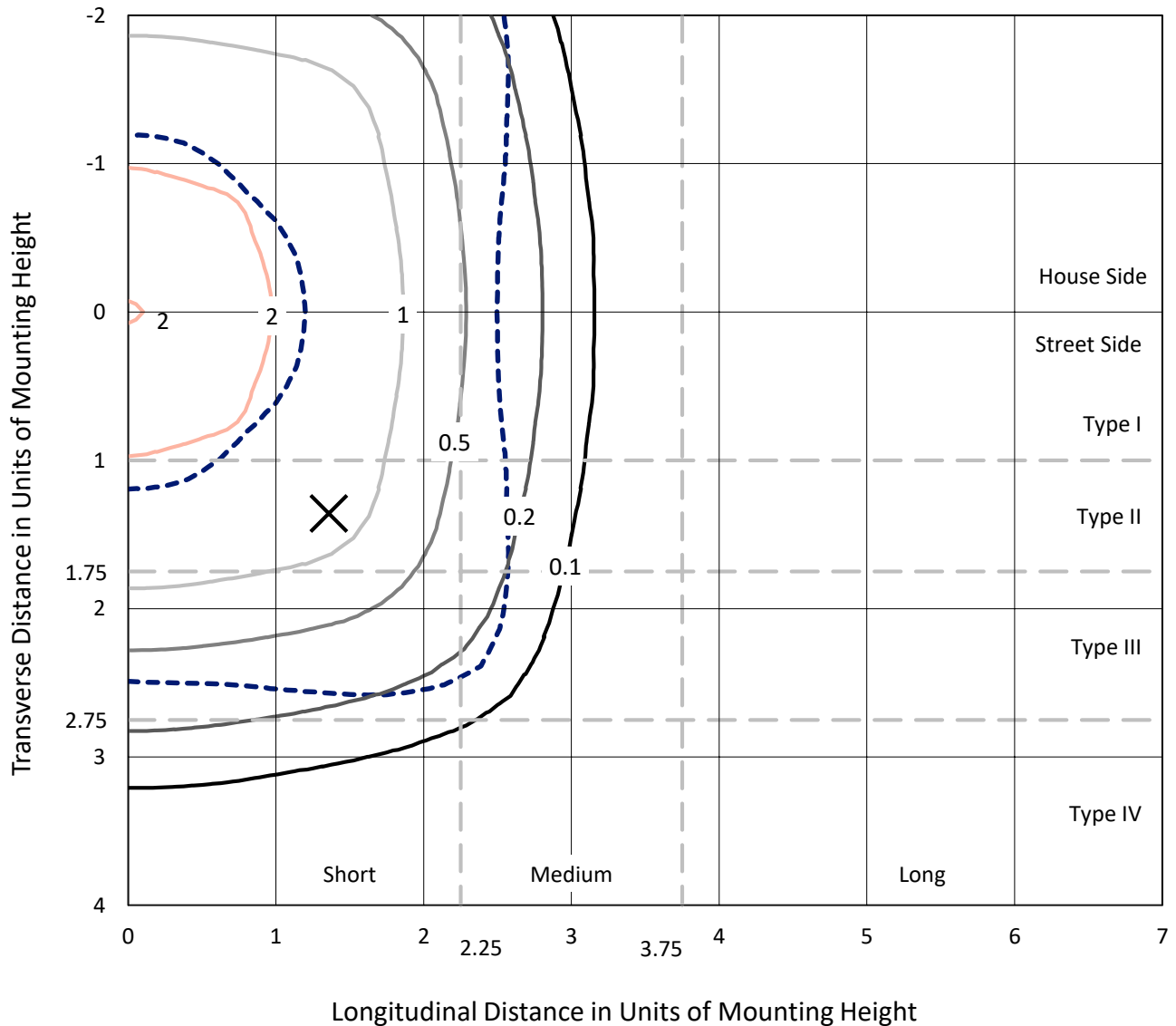
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P140260  
 CATALOG NUMBER: ECM-E01-LED-E1-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

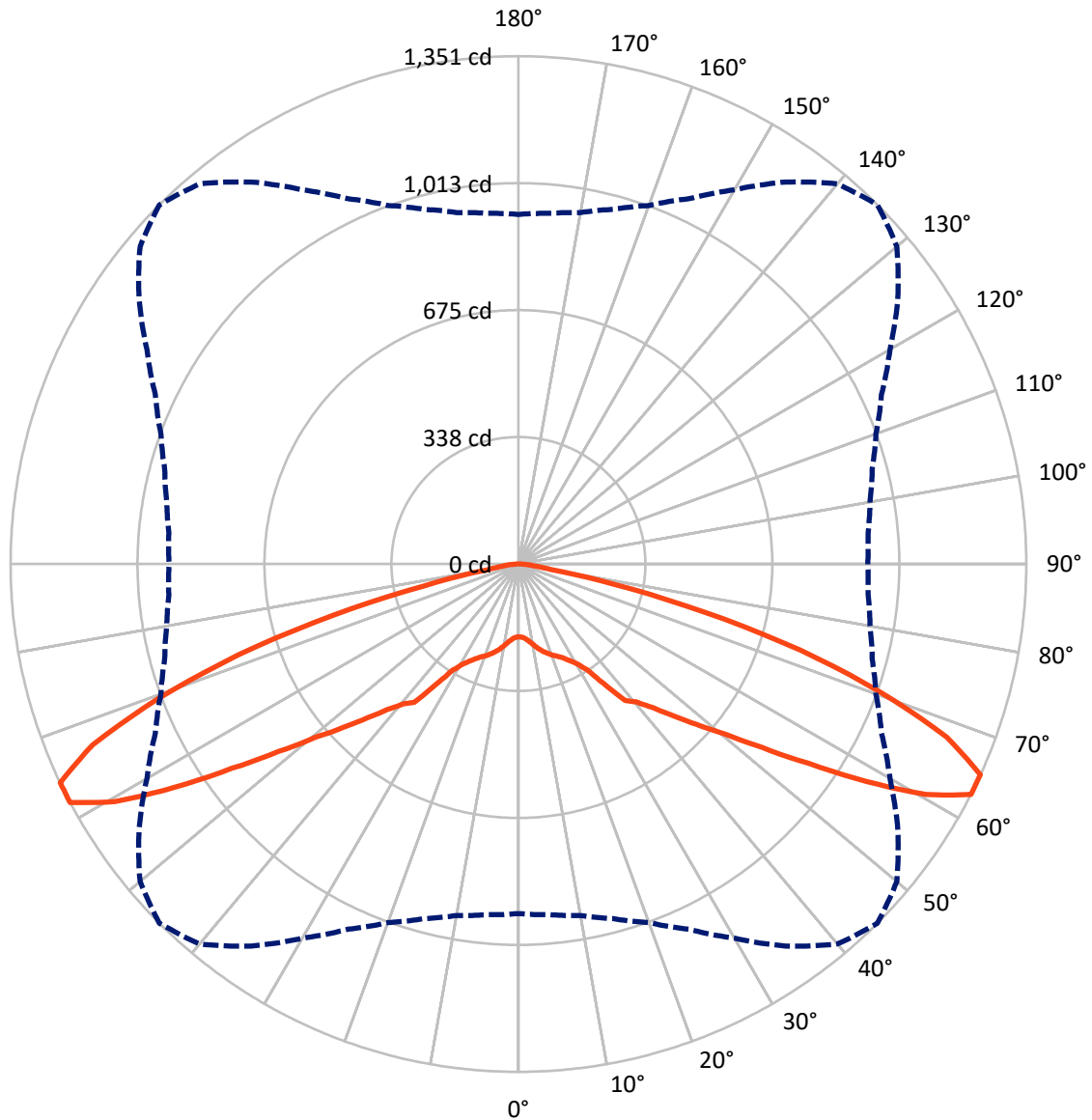
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P140260  
CATALOG NUMBER: ECM-E01-LED-E1-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P140260

CATALOG NUMBER: ECM-E01-LED-E1-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1526.9	0.0	1526.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1526.9	0.0	1526.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3053.8	0.0	3053.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.7	0.6
10°-20°	68.6	2.2
20°-30°	131.8	4.3
30°-40°	253.6	8.3
40°-50°	441.3	14.5
50°-60°	792.7	26.0
60°-70°	971.7	31.8
70°-80°	342.7	11.2
80°-90°	31.7	1.0
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°	3053.8	100.0
0°-180°	3053.8	100.0



REPORT NUMBER: P140260

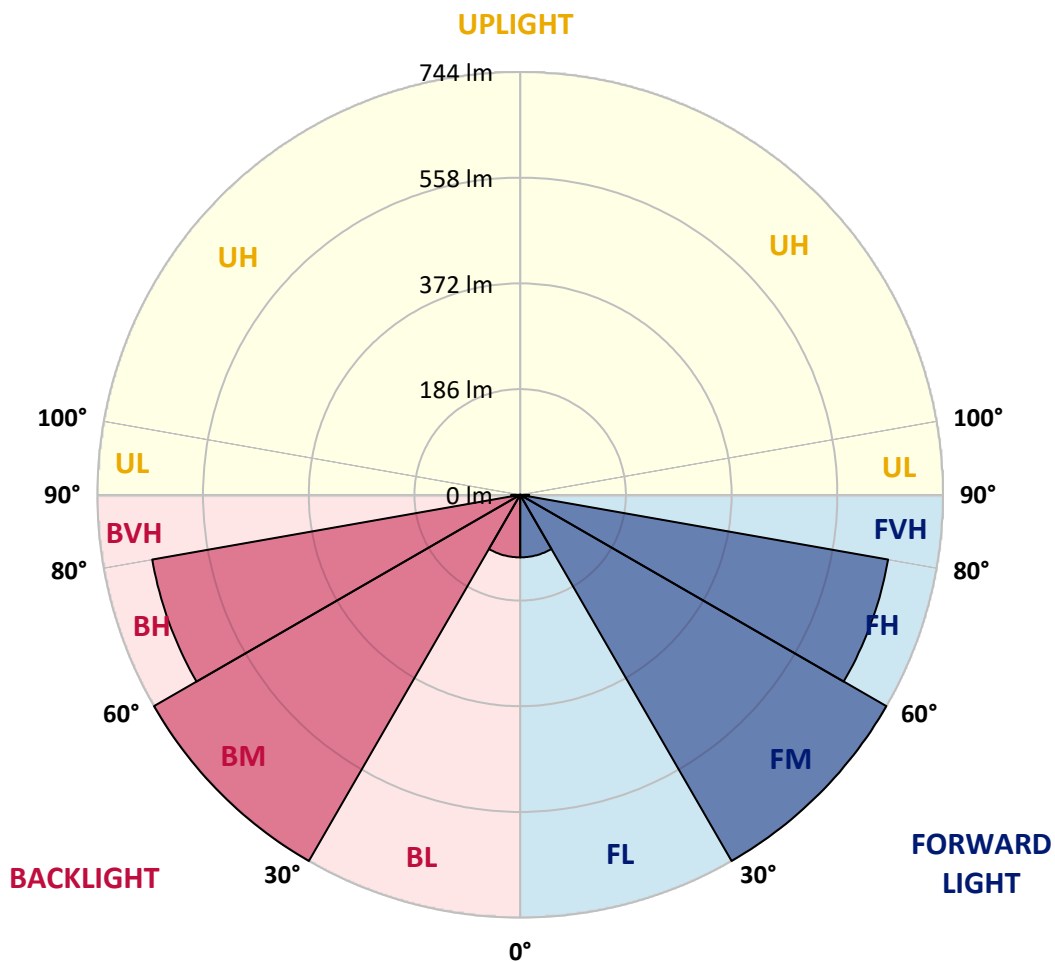
CATALOG NUMBER: ECM-E01-LED-E1-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	110.1	3.6			
FM (30°-60°)	743.8	24.4			
FH (60°-80°)	657.2	21.5			G0/660
FVH (80°-90°)	15.8	0.5			G1/100
BL (0°-30°)	110.1	3.6	B1/500		
BM (30°-60°)	743.8	24.4	B1/1000		
BH (60°-80°)	657.2	21.5	B2/1000		G0/660
BVH (80°-90°)	15.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





REPORT NUMBER: P140260

CATALOG NUMBER: ECM-E01-LED-E1-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7
2.5°	196.0	196.0	195.7	195.3	195.3	195.3	195.0	195.0	195.3	194.7	194.7
5°	201.0	201.3	201.0	200.7	200.3	200.3	200.0	200.0	200.3	199.7	199.3
7.5°	210.3	210.7	210.0	209.7	209.3	209.0	208.7	208.3	208.7	207.7	207.7
10°	222.3	222.3	222.3	221.0	221.0	220.0	219.7	219.0	219.3	218.3	218.3
12.5°	234.3	234.3	234.0	233.3	233.0	232.3	231.7	231.7	231.0	229.7	229.0
15°	245.0	245.3	245.0	244.0	243.7	242.7	242.7	242.0	241.0	240.3	239.7
17.5°	255.0	255.3	254.3	254.0	253.0	252.3	251.7	251.3	250.7	249.7	249.3
20°	264.7	264.3	263.3	262.0	261.3	260.7	260.0	259.7	259.3	258.7	258.7
22.5°	274.0	274.0	273.0	271.0	269.7	269.0	268.0	267.3	266.7	266.3	267.0
25°	288.0	287.7	285.7	283.7	281.3	279.3	278.0	277.7	277.0	277.0	277.3
27.5°	306.0	305.3	302.3	299.7	297.0	294.3	292.7	291.3	291.0	290.7	290.7
30°	328.7	327.7	325.0	321.7	318.7	315.3	312.0	311.0	309.3	308.0	310.3
32.5°	372.0	372.7	367.3	360.7	354.0	347.7	342.0	337.7	335.0	335.3	335.3
35°	419.7	420.0	417.7	415.0	413.0	409.3	403.0	397.7	393.7	389.3	391.3
37.5°	440.3	440.7	438.7	438.3	439.7	442.0	448.3	453.0	460.0	461.0	459.0
40°	476.7	475.0	472.3	471.7	470.7	474.0	476.7	479.0	480.0	482.0	480.0
42.5°	514.7	514.0	512.0	509.7	509.7	510.3	514.7	518.3	520.7	521.0	520.7
45°	557.3	556.3	554.7	554.3	555.3	558.3	561.3	566.0	573.3	573.7	573.3
47.5°	604.3	605.0	602.3	603.3	605.0	610.0	618.3	626.0	634.0	637.0	633.3
50°	668.7	666.3	666.3	665.3	669.7	677.0	687.0	696.0	707.3	710.0	704.3
52.5°	756.0	751.0	752.0	749.3	751.7	758.3	774.7	788.7	803.0	810.0	799.0
55°	861.0	852.7	853.7	856.3	858.3	869.7	890.3	906.3	933.3	935.7	923.0
57.5°	947.0	944.7	946.0	952.3	965.0	984.7	1010.7	1049.3	1082.7	1090.7	1077.0
60°	978.3	980.0	989.3	1006.0	1030.0	1065.0	1115.7	1176.0	1229.0	1245.0	1224.3
62.5°	929.7	936.3	949.0	976.7	1014.7	1071.7	1149.3	1240.3	1319.7	1350.7	1313.7
65°	834.7	839.0	859.7	883.3	932.3	997.7	1093.0	1211.3	1309.0	1350.0	1308.7
67.5°	710.0	718.3	736.3	765.7	808.0	874.3	974.3	1095.3	1193.3	1229.3	1193.0
70°	570.0	573.7	585.0	608.0	652.0	710.7	796.3	904.7	1000.0	1022.7	993.7
72.5°	395.3	402.7	412.3	433.3	461.0	510.7	581.3	661.0	737.7	784.7	742.0
75°	170.3	160.7	182.0	203.0	237.0	283.0	338.3	403.7	479.7	511.0	469.0
77.5°	51.0	50.7	54.0	60.0	72.0	95.3	133.7	177.7	236.3	256.7	220.3
80°	41.7	43.0	44.3	45.7	47.0	48.7	51.7	60.3	74.0	87.3	71.0
82.5°	35.3	37.0	40.7	42.7	43.7	44.0	44.0	43.7	42.0	41.3	41.0
85°	26.7	29.3	34.3	37.3	37.3	37.3	37.3	36.3	34.0	30.0	33.3
87.5°	9.0	12.0	20.0	21.3	22.0	20.3	21.3	21.7	18.0	13.7	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P140260

CATALOG NUMBER: ECM-E01-LED-E1-5MQ

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7
2.5°	194.7	194.7	194.7	195.0	194.7	194.7	194.7	194.7
5°	199.7	199.3	199.7	199.3	199.7	199.7	199.3	199.7
7.5°	207.3	207.3	207.7	207.7	207.3	207.3	207.3	207.3
10°	217.7	217.0	217.3	217.3	217.3	217.0	217.0	216.7
12.5°	228.3	227.7	227.7	227.7	227.7	227.3	227.7	227.7
15°	238.3	237.7	237.0	237.0	237.3	237.7	237.7	237.3
17.5°	248.0	247.3	246.3	246.3	246.0	246.7	247.3	247.0
20°	257.7	257.3	255.7	255.7	255.7	256.3	256.7	257.7
22.5°	267.3	267.0	265.7	265.3	265.7	267.0	268.0	268.0
25°	277.7	278.3	278.0	278.0	278.7	280.7	281.7	283.0
27.5°	292.3	293.7	294.0	295.3	295.7	298.0	299.7	301.7
30°	311.3	313.7	315.0	317.3	319.0	320.3	322.7	324.3
32.5°	337.7	343.3	350.0	357.7	361.0	367.0	369.7	370.3
35°	398.3	404.3	410.0	413.3	412.0	413.7	413.7	415.0
37.5°	453.0	447.0	442.0	441.0	438.3	437.3	437.7	438.7
40°	478.3	475.3	473.3	474.3	473.0	472.0	472.7	473.0
42.5°	519.3	514.7	513.0	512.7	512.0	512.7	514.3	513.7
45°	567.3	561.3	559.0	558.7	557.7	557.3	558.0	559.3
47.5°	625.0	617.7	610.3	608.0	608.0	606.0	607.3	605.3
50°	695.7	683.7	676.0	671.7	669.0	666.0	668.7	664.3
52.5°	788.7	771.7	763.3	757.7	750.0	750.3	751.0	749.3
55°	906.0	887.3	871.0	860.0	855.3	852.7	852.0	857.3
57.5°	1041.0	1008.0	982.0	962.7	955.3	945.3	940.7	940.7
60°	1169.3	1109.3	1057.7	1025.3	1001.3	984.3	973.0	969.7
62.5°	1232.0	1141.0	1065.3	1012.0	974.0	949.7	933.3	929.0
65°	1205.0	1089.3	1000.3	940.3	896.3	865.0	846.0	840.7
67.5°	1096.3	975.3	881.7	821.3	774.0	740.0	725.7	719.7
70°	910.3	799.3	718.0	659.0	609.7	581.0	561.3	553.3
72.5°	654.3	570.0	495.3	444.7	400.3	385.3	358.7	356.0
75°	386.7	313.3	251.7	213.0	173.3	151.7	139.3	126.0
77.5°	157.3	112.3	84.3	63.7	54.7	49.7	47.3	46.7
80°	53.7	48.0	45.3	44.3	43.0	42.3	40.7	39.3
82.5°	42.3	42.0	40.7	40.3	39.0	37.0	33.7	31.7
85°	35.3	34.7	33.0	32.7	31.7	29.0	25.3	23.0
87.5°	20.0	18.3	16.7	17.0	16.0	14.0	10.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)