

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: McGRAW-EDISON

Report Number: P232758

Luminaire Tested: **CTN-10-9-D-E1-T5-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-21)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: CTN-10-9-D-E1-T5-7050  
Description: CELESTEON HIGH MAST LUMINAIRE  
(10) 70 CRI, 5000K LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 95328 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G5

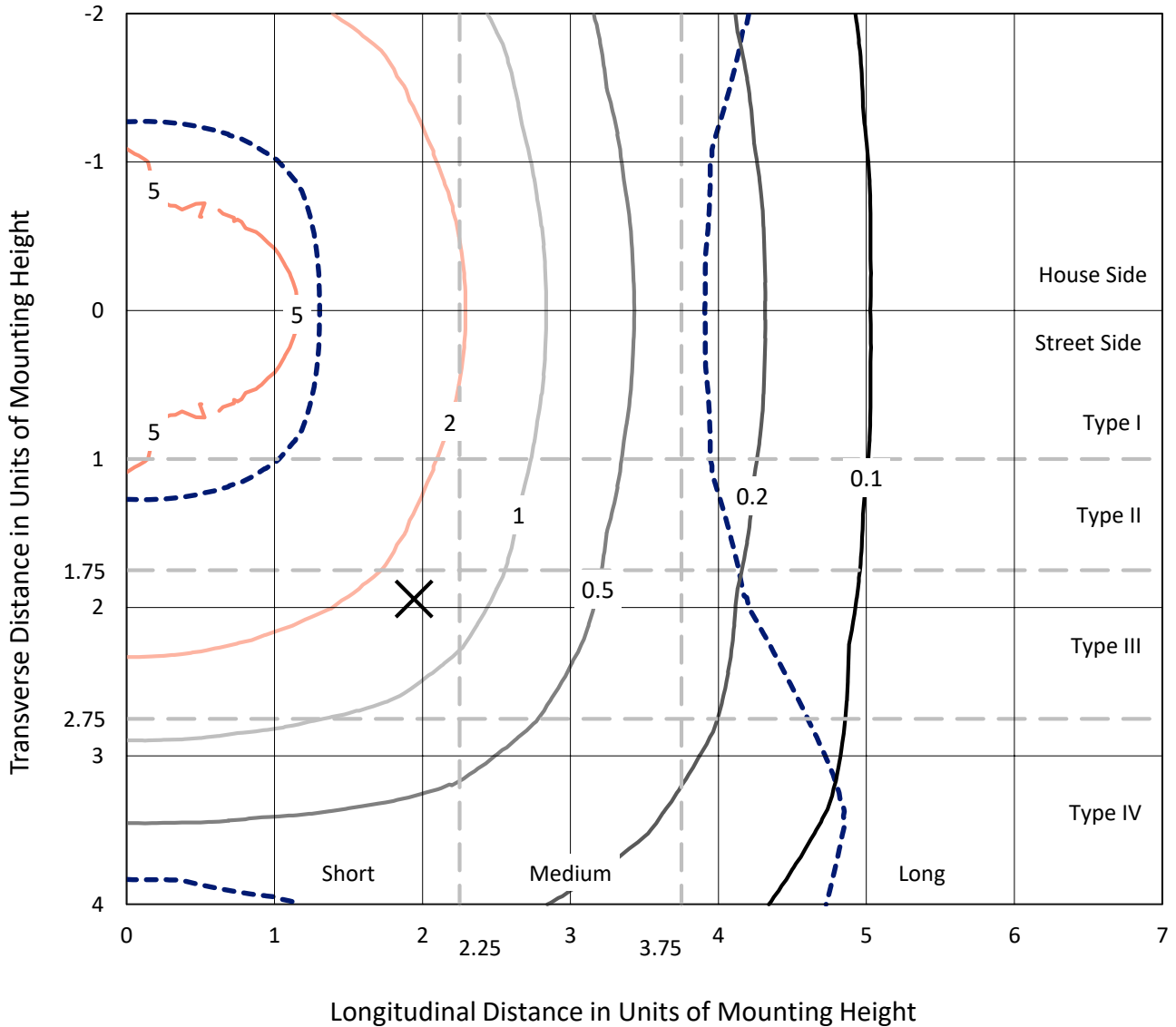
Input Watts (W): 760  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

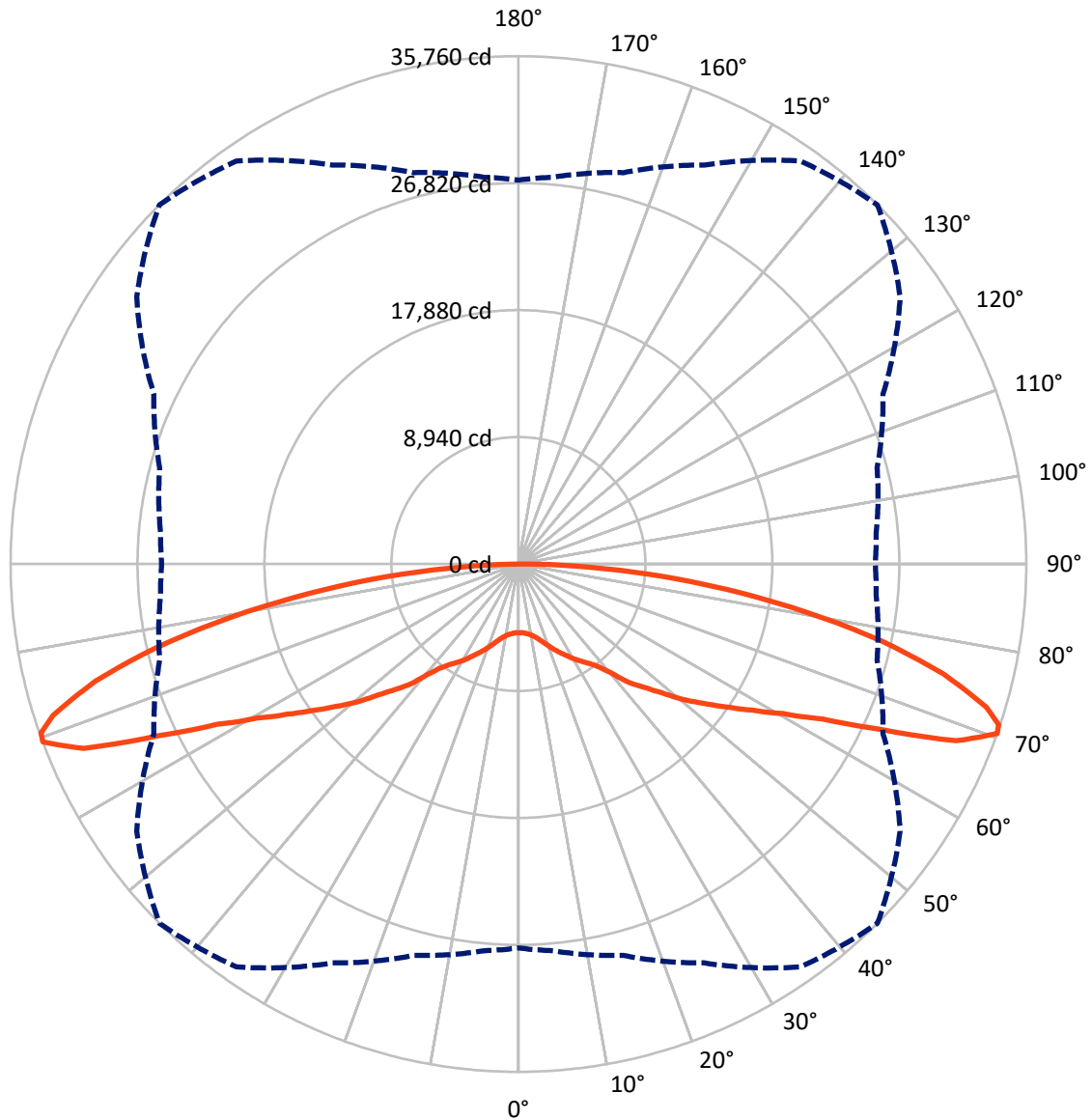


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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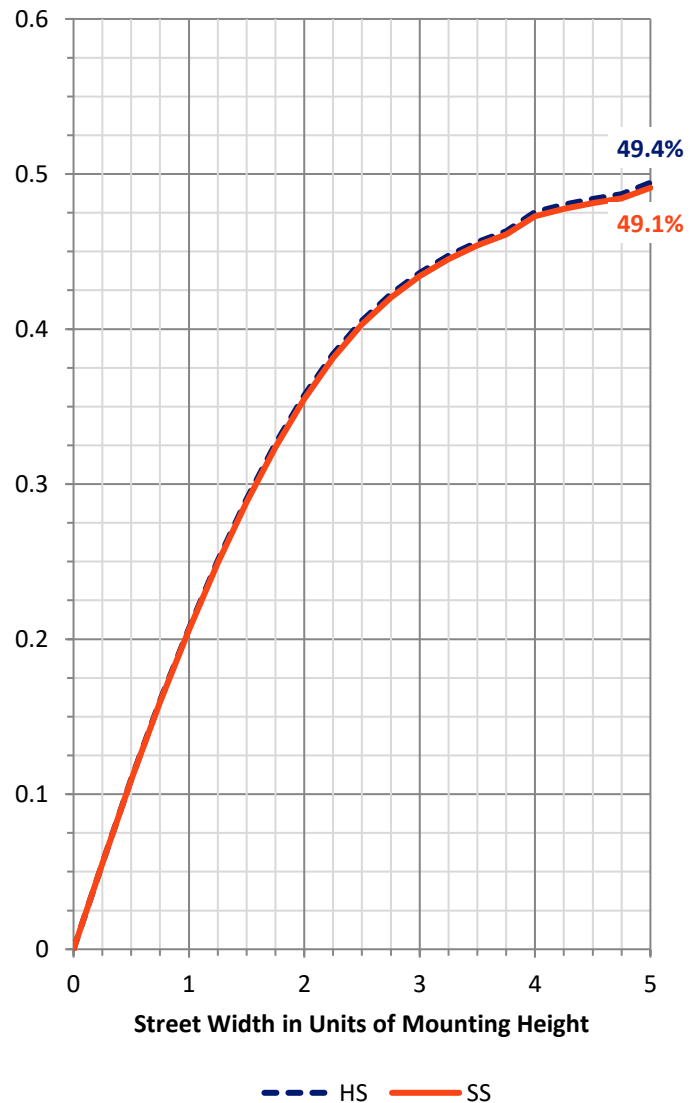
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	47664.0	0.0	47664.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	47664.0	0.0	47664.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	95328.0	0.0	95328.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.9	0.5
10°-20°	1580.8	1.7
20°-30°	3158.8	3.3
30°-40°	5432.1	5.7
40°-50°	10049.2	10.5
50°-60°	17080.7	17.9
60°-70°	27532.0	28.9
70°-80°	24333.6	25.5
80°-90°	5685.9	6.0
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°	95328.0	100.0
0°-180°	95328.0	100.0



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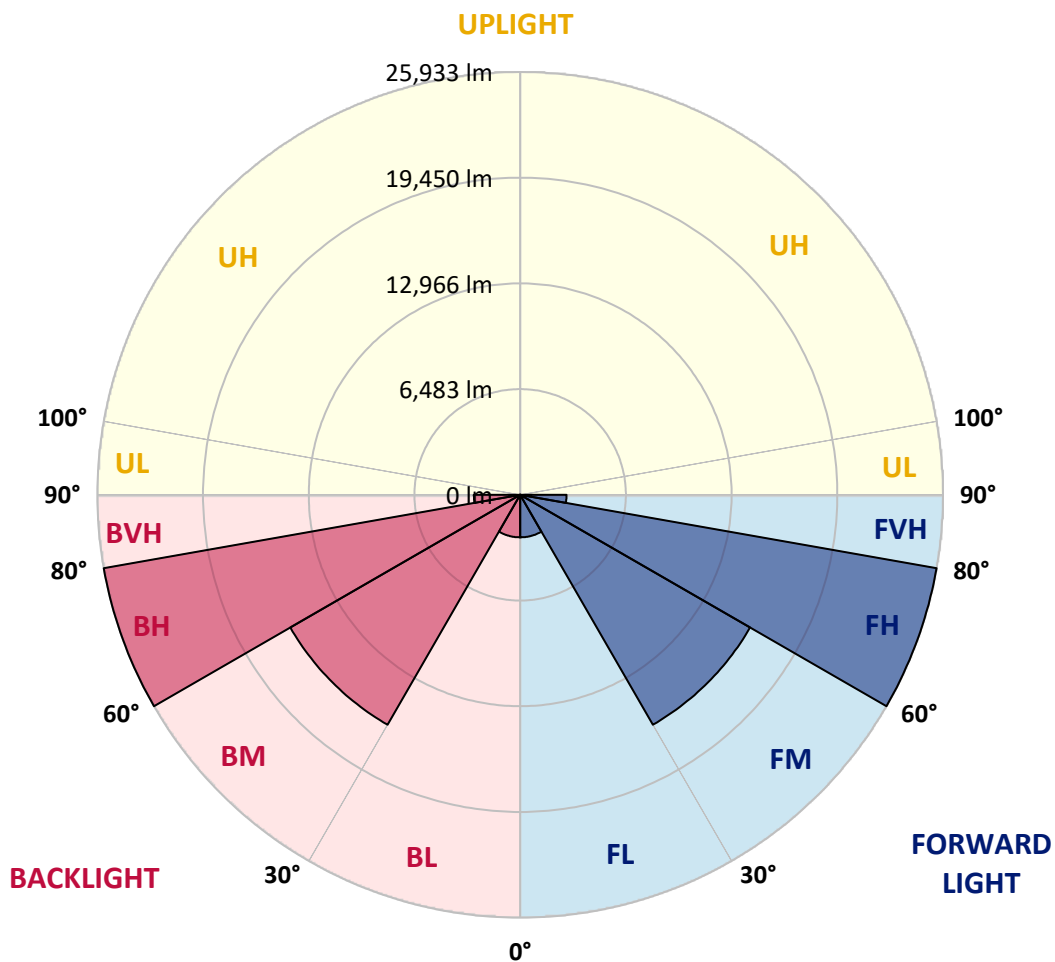
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2607.2	2.7			
FM	(30°-60°)	16281.0	17.1			
FH	(60°-80°)	25932.8	27.2			G5
FVH	(80°-90°)	2842.9	3.0			G5
BL	(0°-30°)	2607.2	2.7	B4/5000		
BM	(30°-60°)	16281.0	17.1	B5		
BH	(60°-80°)	25932.8	27.2	B5		G5
BVH	(80°-90°)	2842.9	3.0			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4843.4	4843.4	4843.4	4843.4	4843.4	4843.4	4843.4	4843.4	4843.4	4843.4	4843.4
2.5°	4885.4	4876.4	4879.4	4879.4	4825.4	4837.4	4840.4	4873.4	4873.4	4888.4	4891.4
5°	4933.4	4918.4	4921.4	4933.4	4882.4	4891.4	4891.4	4924.4	4918.4	4936.4	4945.4
7.5°	5017.3	5005.3	5005.3	5017.3	4957.3	4972.3	4963.3	4993.3	4981.3	4990.3	5008.3
10°	5152.3	5149.3	5140.3	5146.3	5080.3	5089.3	5071.3	5104.3	5080.3	5083.3	5116.3
12.5°	5308.2	5305.2	5305.2	5314.2	5257.2	5272.2	5242.3	5254.2	5212.3	5218.3	5245.3
15°	5500.2	5506.2	5512.2	5539.2	5503.2	5518.2	5473.2	5467.2	5419.2	5419.2	5452.2
17.5°	5764.1	5764.1	5767.1	5827.1	5806.1	5830.1	5767.1	5725.1	5677.1	5683.1	5689.1
20°	6094.0	6082.0	6088.0	6159.9	6165.9	6183.9	6085.0	6028.0	5977.0	5980.0	5974.0
22.5°	6444.9	6420.9	6417.9	6516.8	6558.8	6564.8	6426.9	6372.9	6306.9	6315.9	6309.9
25°	6780.7	6756.7	6744.8	6825.7	6936.7	6930.7	6780.7	6702.8	6672.8	6672.8	6678.8
27.5°	7113.6	7083.6	7071.6	7119.6	7293.6	7323.6	7125.6	7056.6	7026.7	7053.6	7065.6
30°	7449.5	7425.5	7419.5	7434.5	7632.5	7764.4	7458.5	7428.5	7425.5	7449.5	7476.5
32.5°	7857.4	7854.4	7830.4	7827.4	7974.3	8166.3	7857.4	7875.4	7923.4	7977.3	8013.3
35°	8382.2	8376.2	8310.2	8340.2	8412.2	8592.1	8415.2	8427.2	8556.1	8637.1	8682.1
37.5°	9081.0	9036.0	8952.0	8955.0	8991.0	9173.9	9105.0	9197.9	9431.9	9581.8	9566.8
40°	10070.6	9998.7	9872.7	9836.7	9830.7	10091.6	10157.6	10367.5	10736.4	10958.3	10943.4
42.5°	11486.2	11411.2	11219.3	11168.3	11189.3	11393.2	11585.1	11918.0	12238.9	12496.8	12481.8
45°	12937.7	12841.7	12532.8	12358.9	12208.9	12364.9	12664.8	13186.6	13570.5	13909.4	13903.4
47.5°	14617.1	14467.2	14095.3	13762.4	13462.5	13519.5	13840.4	14437.2	14902.0	15240.9	15219.9
50°	16440.5	16290.6	15882.7	15381.9	14917.0	14956.0	15112.0	15741.8	16203.6	16533.5	16539.5
52.5°	18389.9	18281.9	17814.1	17151.3	16512.5	16293.6	16392.5	16974.3	17505.2	17817.1	17844.1
55°	20492.2	20387.2	19895.4	19130.6	18254.9	17763.1	17760.1	18344.9	18881.7	19154.6	19196.6
57.5°	22600.5	22543.5	22111.6	21277.9	20174.3	19421.5	19250.6	19859.4	20462.2	20744.1	20801.1
60°	24771.7	24693.8	24333.9	23635.1	22423.5	21391.9	21104.0	21712.8	22393.5	22684.4	22720.4
62.5°	27230.9	27152.9	26877.0	26139.3	25245.6	24052.0	23635.1	24195.9	24825.7	25290.6	25242.6
65°	29690.1	29672.1	29789.1	29456.2	28772.4	28088.6	27266.9	27881.7	28346.6	28301.6	28286.6
67.5°	29297.2	29411.2	30220.9	31375.5	32818.1	33225.9	31327.6	29606.1	28592.5	28004.7	27818.7
70°	27036.0	27329.9	28529.5	30991.7	34629.5	35760.1	32809.1	28322.6	26145.3	25287.6	25122.6
71°	25788.4	26019.3	27401.9	30409.9	34641.5	35661.1	32458.2	27356.9	25143.6	23968.0	23854.0
72.5°	23359.2	23716.1	25242.6	28817.4	33588.8	34446.5	30928.7	25557.5	23239.3	22093.6	22030.7
75°	18674.8	18782.7	20753.1	24813.7	30244.9	30925.7	27455.8	22177.6	19787.4	19004.7	18959.7
77.5°	13180.6	13183.6	15073.0	19343.6	25074.6	26178.3	23779.1	18284.9	15870.7	14887.0	14668.1
80°	6981.7	7266.6	9141.0	13294.6	18782.7	20600.1	18896.7	13825.4	11159.3	9722.8	9521.8
82.5°	3181.9	3385.9	4600.5	7536.5	12352.9	14836.1	12964.7	8976.0	5980.0	4429.5	4300.6
85°	1235.6	1265.6	1898.4	3580.8	6906.7	9305.9	7548.5	4207.6	2081.3	1271.6	1178.6
87.5°	404.9	431.9	617.8	1379.5	2939.0	3715.8	2918.0	1265.6	404.9	251.9	242.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)