

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: P529734

Luminaire Tested: **GALN-SA4D-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20631 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 245
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: 24 FT



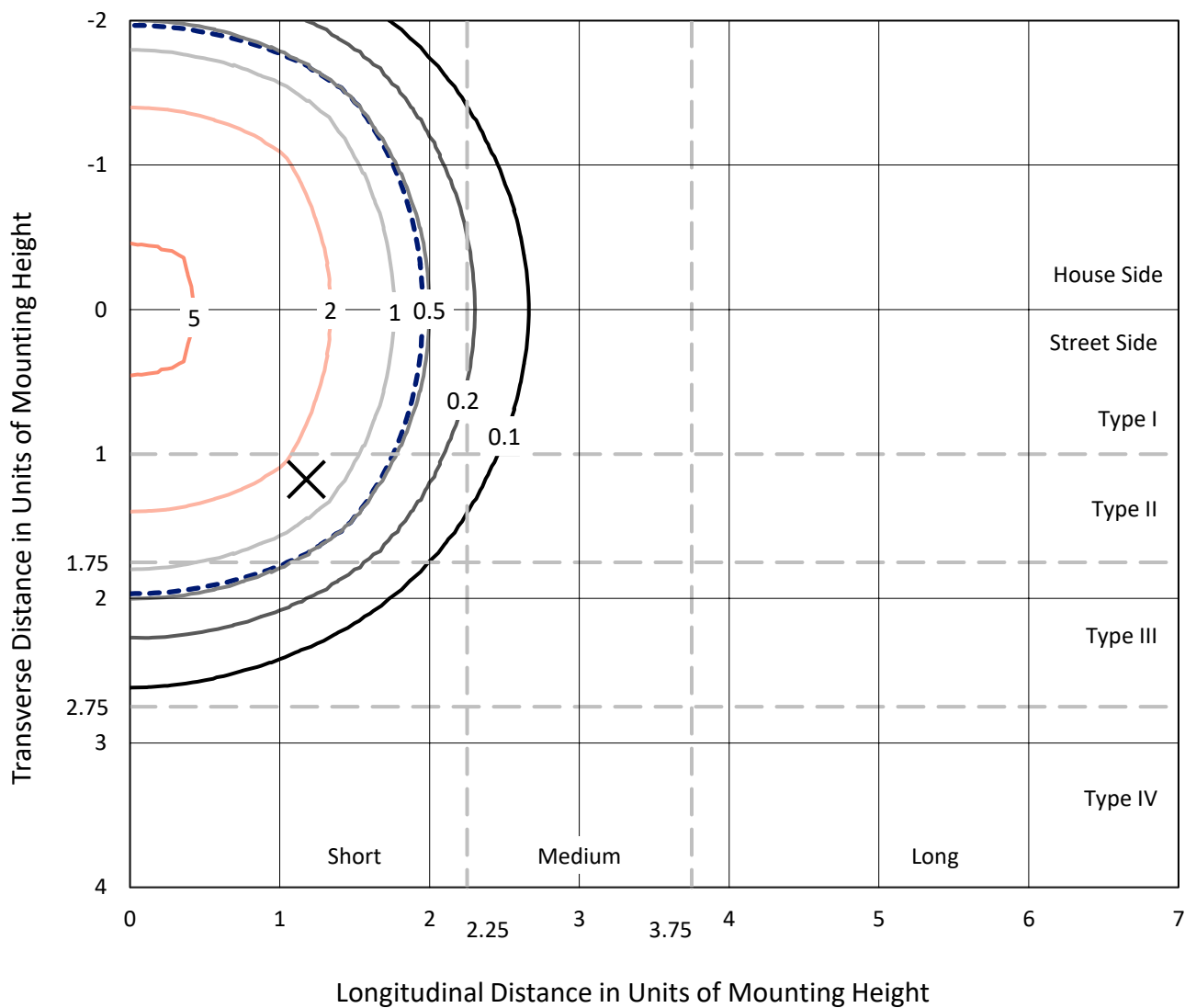
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



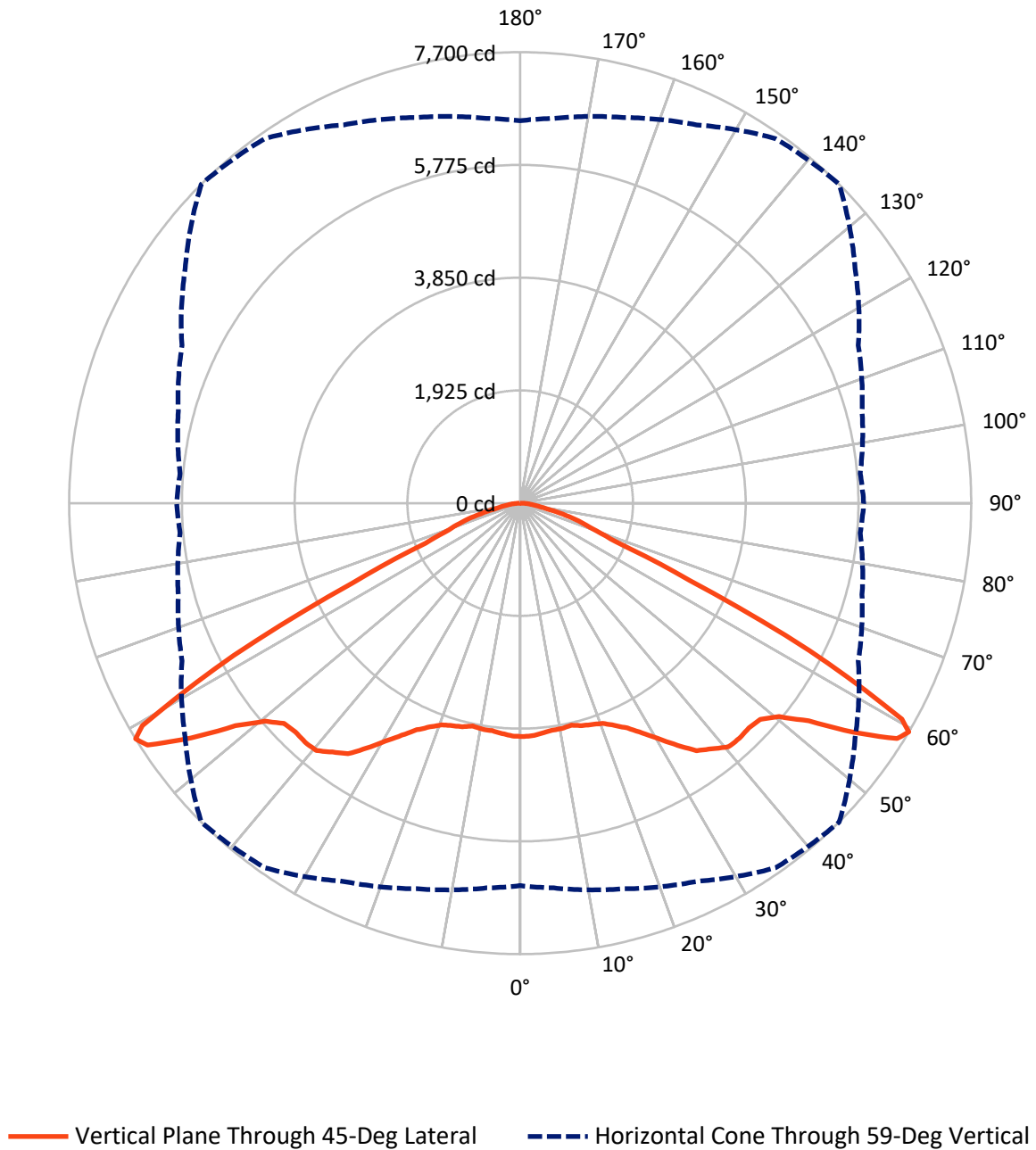
Based on 25 foot mounting height. Maximum calculated value = 6.4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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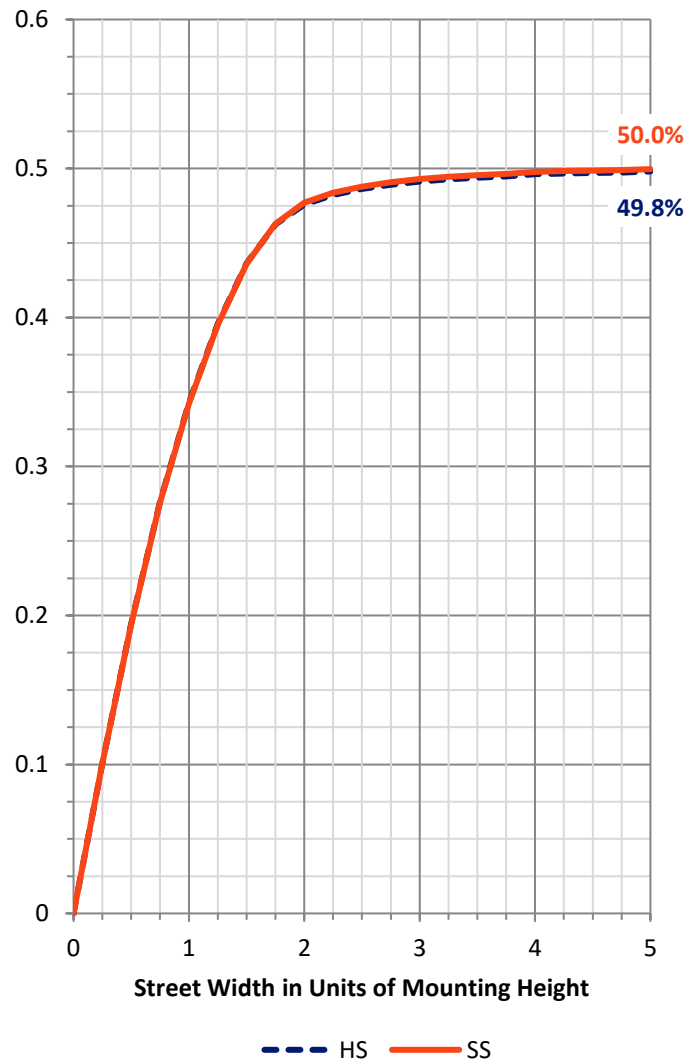
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10315.5	0.0	10315.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10315.5	0.0	10315.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20631.0	0.0	20631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.7	1.8
10°-20°	1117.1	5.4
20°-30°	1950.6	9.5
30°-40°	3115.4	15.1
40°-50°	4243.8	20.6
50°-60°	5738.8	27.8
60°-70°	3147.2	15.3
70°-80°	805.1	3.9
80°-90°	137.3	0.7
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°	20631.0	100.0
0°-180°	20631.0	100.0

Coefficient of Utilization



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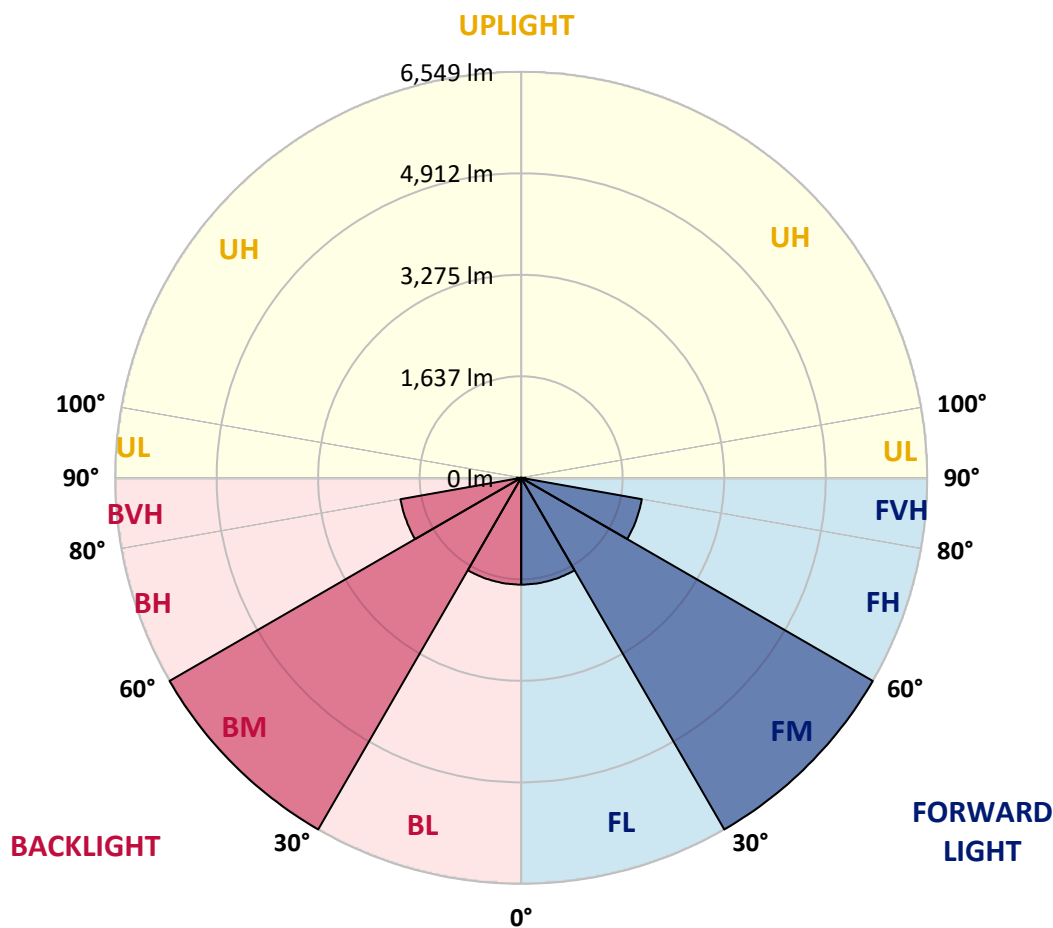
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1721.7	8.3			
FM	(30°-60°)	6549.0	31.7			
FH	(60°-80°)	1976.2	9.6			G2/5000
FVH	(80°-90°)	68.7	0.3			G1/100
BL	(0°-30°)	1721.7	8.3	B3/2500		
BM	(30°-60°)	6549.0	31.7	B4/8500		
BH	(60°-80°)	1976.2	9.6	B3/2500		G2/5000
BVH	(80°-90°)	68.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3984.9	3984.9	3984.9	3984.9	3984.9	3984.9	3984.9	3984.9	3984.9	3984.9	3984.9
2.5°	3961.1	3990.2	3969.1	3987.6	3984.9	3977.0	3963.8	3955.8	3945.3	3961.1	3934.7
5°	3945.3	3969.1	3992.9	3961.1	3961.1	3945.3	3937.3	3921.5	3921.5	3918.8	3916.2
7.5°	3971.7	3947.9	3937.3	3942.6	3947.9	3913.5	3937.3	3905.6	3879.2	3897.7	3918.8
10°	3947.9	3958.5	3918.8	3937.3	3908.2	3913.5	3897.7	3918.8	3889.7	3889.7	3889.7
12.5°	3971.7	3942.6	3955.8	3942.6	3934.7	3889.7	3910.9	3887.1	3884.4	3910.9	3887.1
15°	4019.3	3971.7	3961.1	3934.7	3942.6	3942.6	3921.5	3924.1	3895.0	3910.9	3916.2
17.5°	4003.4	3977.0	3969.1	3937.3	3963.8	3971.7	3932.0	3905.6	3924.1	3921.5	3918.8
20°	4016.7	4027.2	4019.3	4024.6	4035.2	4014.0	3977.0	3940.0	3916.2	3950.5	3947.9
22.5°	4101.3	4090.7	4085.4	4080.1	4098.6	4119.8	4069.5	4011.4	4011.4	4035.2	4045.7
25°	4170.0	4167.4	4164.7	4188.5	4252.0	4252.0	4188.5	4114.5	4096.0	4111.8	4098.6
27.5°	4270.5	4299.6	4289.0	4331.3	4423.9	4445.0	4360.4	4273.1	4222.9	4204.4	4228.2
30°	4500.6	4466.2	4474.1	4519.1	4601.0	4669.8	4540.2	4447.7	4378.9	4376.3	4386.9
32.5°	4653.9	4680.4	4704.2	4746.5	4876.0	4928.9	4772.9	4622.2	4579.9	4556.1	4564.0
35°	4960.7	4936.9	4931.6	4973.9	5103.5	5190.7	4995.0	4862.8	4807.3	4860.2	4860.2
37.5°	5251.5	5185.4	5135.2	5190.7	5309.7	5320.3	5153.7	5082.3	5053.2	5114.0	5111.4
40°	5389.0	5383.7	5267.4	5299.1	5457.8	5473.6	5317.6	5233.0	5227.7	5307.1	5386.4
42.5°	5531.8	5481.6	5365.2	5386.4	5484.2	5489.5	5341.4	5317.6	5375.8	5452.5	5457.8
45°	5555.6	5513.3	5439.3	5386.4	5457.8	5473.6	5386.4	5402.3	5407.5	5500.1	5500.1
47.5°	5603.2	5597.9	5555.6	5516.0	5529.2	5516.0	5460.4	5484.2	5563.6	5608.5	5587.4
50°	5735.4	5679.9	5722.2	5687.8	5690.5	5727.5	5677.3	5701.1	5685.2	5645.5	5619.1
52.5°	6026.3	5999.9	6036.9	6060.7	6087.1	6171.7	6113.6	5986.6	5867.6	5761.9	5759.2
55°	6452.0	6470.5	6541.9	6663.6	6766.7	6901.6	6621.3	6317.2	6126.8	5960.2	5970.8
57.5°	6854.0	6840.7	6938.6	7216.2	7517.7	7586.4	7036.4	6602.8	6293.4	6187.6	6142.7
59°	6531.4	6594.8	6816.9	7126.3	7599.6	7700.1	6980.9	6370.1	6042.2	5828.0	5865.0
60°	6023.7	6047.5	6245.8	6676.8	7316.7	7488.6	6608.0	6010.4	5574.1	5449.9	5505.4
62.5°	4257.3	4238.8	4381.6	4733.3	5307.1	5539.8	4913.1	4492.6	4217.6	4080.1	4111.8
65°	2263.5	2348.1	2406.3	2625.8	2929.9	3175.8	2916.6	2734.2	2580.8	2467.1	2464.5
67.5°	1528.4	1517.8	1531.0	1581.3	1684.4	1753.2	1747.9	1655.3	1642.1	1620.9	1644.7
70°	1287.8	1282.5	1258.7	1258.7	1279.8	1295.7	1314.2	1324.8	1345.9	1372.4	1369.7
72.5°	1044.5	1031.3	1015.4	1007.5	1033.9	1041.8	1065.6	1076.2	1094.7	1092.1	1115.9
75°	690.2	690.2	708.7	729.8	737.8	753.6	756.3	788.0	788.0	793.3	772.1
77.5°	386.1	375.5	388.7	409.9	428.4	457.5	486.5	510.3	523.6	518.3	518.3
80°	224.8	224.8	238.0	261.8	285.6	312.0	333.2	351.7	364.9	359.6	349.0
82.5°	140.1	140.1	153.4	177.2	195.7	211.5	240.6	264.4	280.3	275.0	261.8
85°	71.4	71.4	87.3	103.1	126.9	137.5	134.9	124.3	121.6	108.4	108.4
87.5°	18.5	18.5	26.4	29.1	23.8	26.4	26.4	26.4	26.4	26.4	29.1
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)