

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: P197701

Luminaire Tested: **TT-C1-LED-E1-MQ-CG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-MQ-CG-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2979.6 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

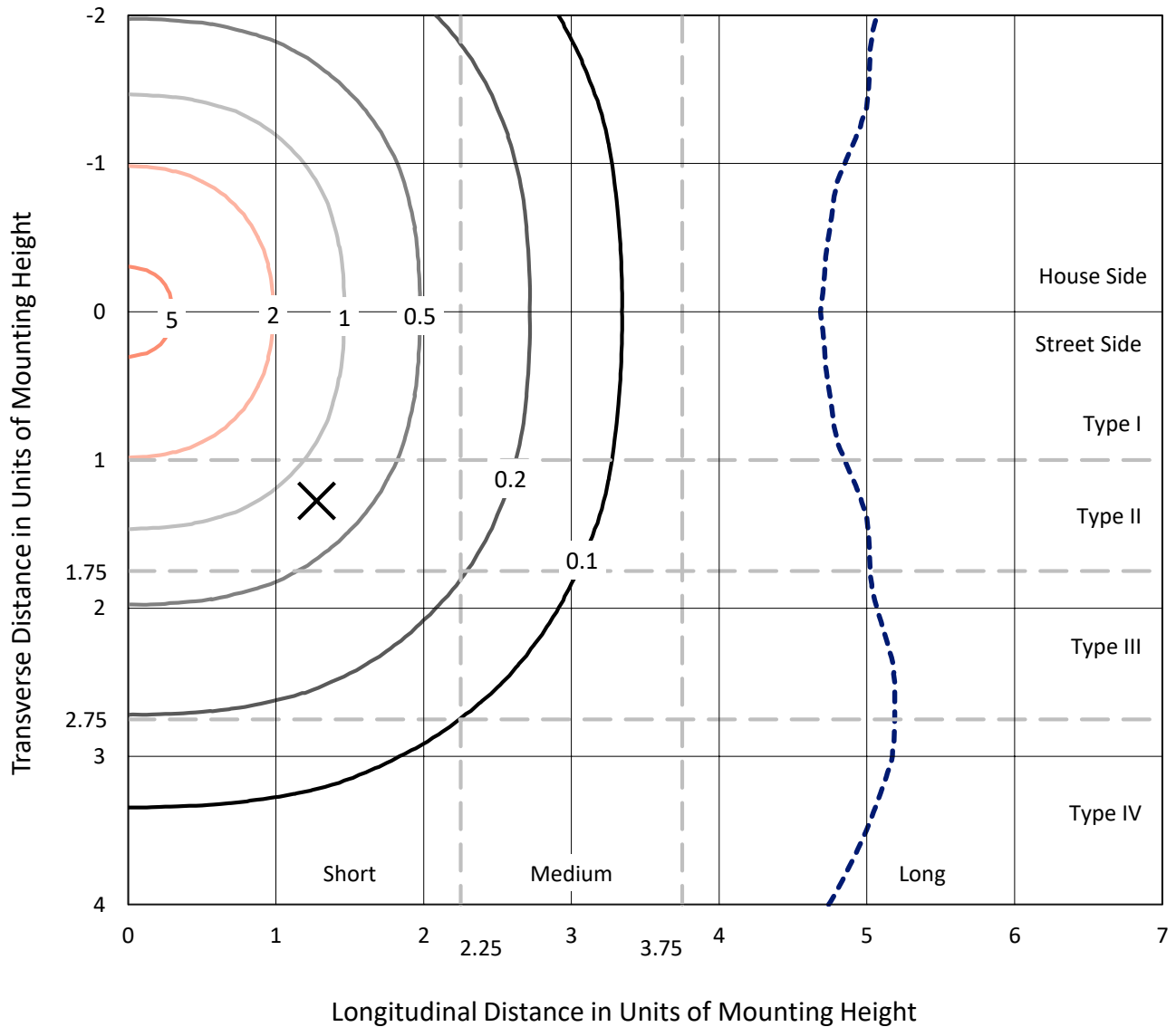
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

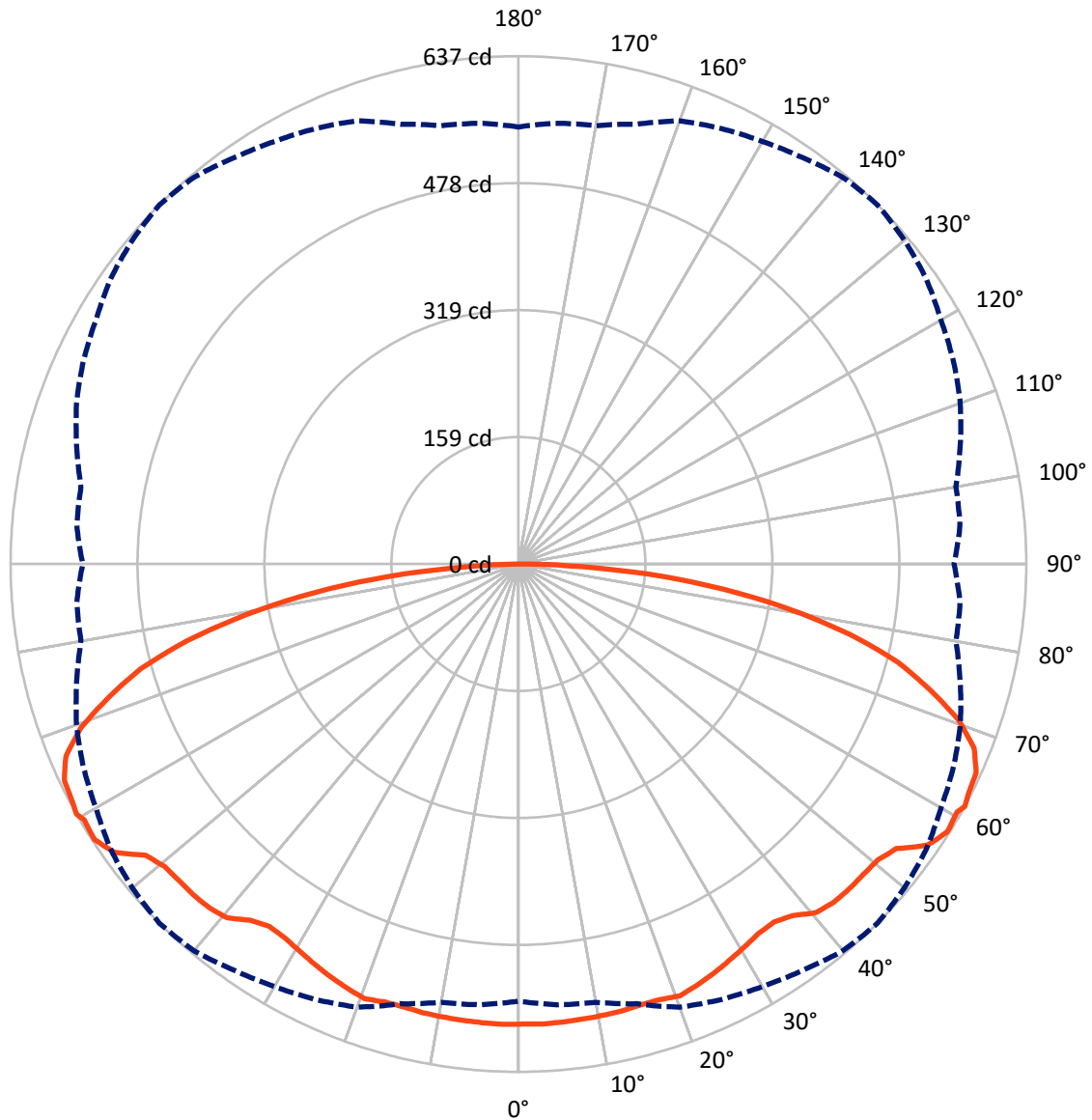
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1489.8	0.0	1489.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1489.8	0.0	1489.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	2979.6	0.0	2979.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.8
10°-20°	162.8	5.5
20°-30°	262.0	8.8
30°-40°	347.0	11.6
40°-50°	438.3	14.7
50°-60°	525.1	17.6
60°-70°	574.2	19.3
70°-80°	459.6	15.4
80°-90°	155.5	5.2
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°	2979.6	100.0
0°-180°	2979.6	100.0



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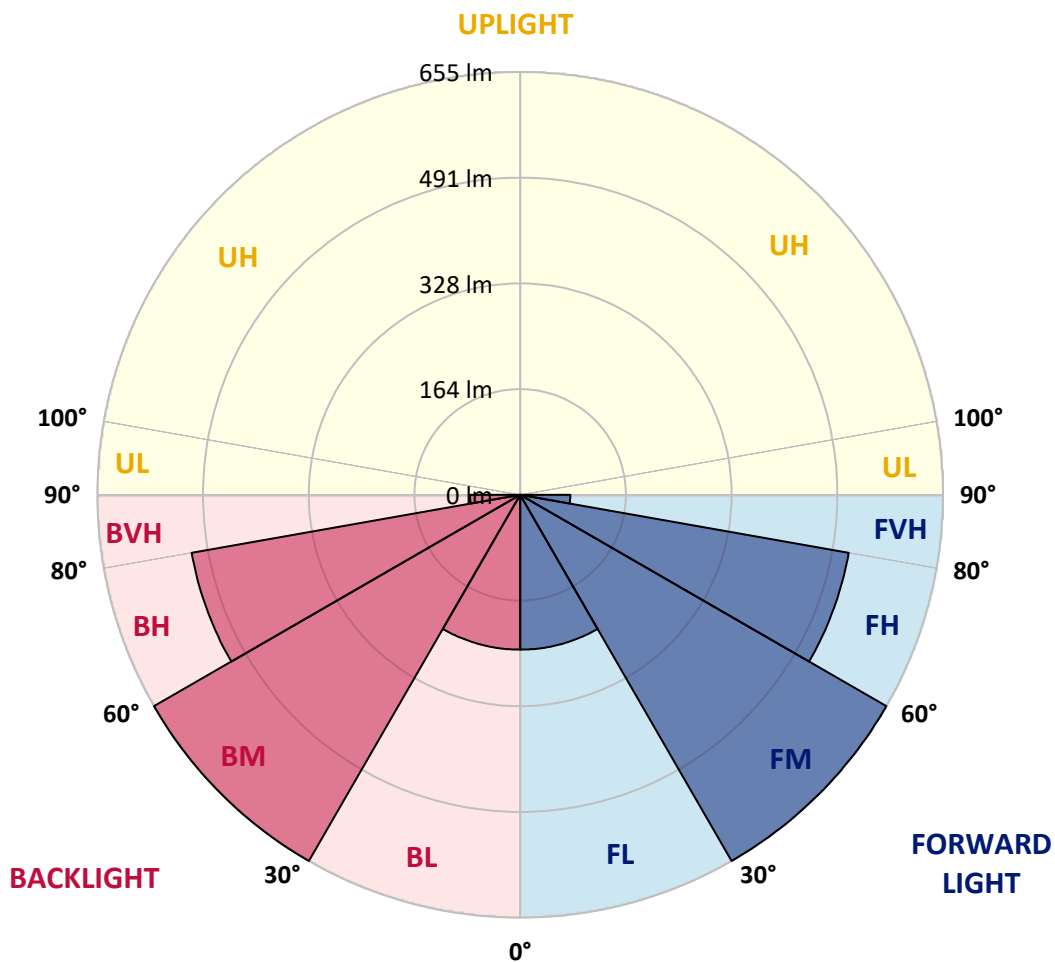
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.9	8.1			
FM	(30°-60°)	655.2	22.0			
FH	(60°-80°)	516.9	17.3			G0/660
FVH	(80°-90°)	77.8	2.6			G1/100
BL	(0°-30°)	239.9	8.1	B1/500		
BM	(30°-60°)	655.2	22.0	B1/1000		
BH	(60°-80°)	516.9	17.3	B2/1000		G0/660
BVH	(80°-90°)	77.8	2.6			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	577.8	577.3	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8
5°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
7.5°	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7	577.3	576.7	577.3
10°	575.6	575.6	575.6	575.6	576.1	576.1	576.1	576.1	576.1	576.1	576.1
12.5°	574.5	574.5	574.5	574.5	575.1	575.1	575.1	575.1	575.6	575.6	575.1
15°	573.4	572.8	572.8	573.4	573.4	573.9	573.9	573.9	574.5	573.9	573.9
17.5°	572.3	571.7	572.3	572.8	572.8	573.4	573.9	573.9	574.5	574.5	574.5
20°	573.9	573.4	573.9	574.5	575.1	576.1	576.7	577.3	577.8	578.4	578.4
22.5°	570.6	570.1	570.6	570.6	571.2	571.7	572.8	573.4	573.9	573.9	573.9
25°	565.6	565.6	566.2	566.2	566.8	567.3	567.8	568.4	568.4	568.9	568.4
27.5°	560.1	560.1	560.6	560.6	561.8	561.8	562.3	562.8	563.4	563.4	563.4
30°	553.4	553.4	553.9	554.5	555.6	556.2	556.7	557.3	557.9	557.9	557.9
32.5°	547.3	546.7	547.3	548.4	550.1	551.2	552.3	552.9	552.9	552.9	553.4
35°	542.3	542.9	544.0	545.1	547.3	548.4	549.5	551.2	551.7	551.7	551.7
37.5°	543.4	544.0	545.6	547.9	550.6	553.9	556.2	558.4	560.1	559.5	558.9
40°	550.6	551.7	554.5	557.9	562.3	566.8	570.1	572.8	574.5	575.1	574.5
42.5°	551.7	552.9	555.1	560.1	565.1	570.1	574.5	577.3	579.5	580.1	579.5
45°	551.2	551.2	554.5	560.1	565.1	570.1	575.6	579.5	581.7	581.7	581.7
47.5°	547.3	549.0	551.2	556.7	563.4	568.4	573.9	577.8	580.6	582.3	580.6
50°	547.3	547.3	551.2	555.1	561.2	570.1	577.8	581.7	584.5	584.0	584.5
52.5°	546.2	549.5	551.7	557.3	568.4	577.3	583.4	589.0	592.8	593.4	592.3
55°	556.2	556.7	561.8	572.3	582.8	592.8	603.9	612.2	618.9	622.8	617.2
57.5°	563.9	561.2	571.2	580.1	592.3	607.3	623.9	630.5	635.5	634.4	636.1
60°	553.4	557.3	564.5	573.9	593.4	608.3	617.2	624.5	630.5	632.2	630.0
61°	548.4	555.1	558.4	571.2	591.7	602.8	612.2	622.2	633.4	637.2	632.2
62.5°	540.1	550.6	549.5	570.1	582.8	595.6	613.3	625.0	632.8	633.9	632.8
65°	540.6	539.0	551.7	566.8	579.5	602.3	617.2	624.5	628.9	631.1	630.0
67.5°	522.9	517.4	532.9	543.4	565.1	582.8	597.3	607.8	614.5	616.7	613.9
70°	481.8	485.7	496.8	512.9	530.7	552.3	565.6	579.5	585.0	585.6	585.6
72.5°	442.4	444.6	455.7	470.7	491.2	510.1	523.4	534.5	539.6	540.1	541.2
75°	390.2	392.4	405.2	419.1	439.6	455.7	465.1	478.5	485.7	491.8	486.8
77.5°	329.7	333.6	343.6	358.6	377.5	386.3	403.0	418.5	423.6	425.2	423.6
80°	261.5	266.5	275.3	295.3	303.6	318.1	334.1	340.8	345.3	346.4	346.9
82.5°	188.2	192.0	201.5	215.4	224.8	236.4	247.6	255.9	260.9	259.8	259.2
85°	111.0	112.1	122.1	131.6	138.8	146.0	154.8	161.0	162.1	164.3	163.7
87.5°	33.3	33.8	38.3	43.3	46.7	50.0	55.5	62.7	64.4	60.0	60.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	577.8	577.8	577.8	577.8	577.8	577.8	577.3	577.8
5°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
7.5°	577.3	576.7	576.7	576.7	576.7	576.7	576.7	576.7
10°	576.1	576.1	576.1	576.1	575.6	575.6	575.6	575.6
12.5°	575.1	575.1	575.1	575.1	574.5	574.5	574.5	574.5
15°	573.9	573.9	573.9	573.9	573.4	573.4	573.4	573.4
17.5°	574.5	573.9	573.4	573.4	572.8	572.3	572.3	572.3
20°	577.8	577.3	576.1	575.1	574.5	573.9	573.9	573.9
22.5°	573.4	572.8	571.7	571.2	571.2	570.6	570.1	570.1
25°	568.4	567.3	567.3	566.8	566.8	565.6	565.6	565.1
27.5°	562.8	562.3	561.8	561.2	561.2	560.6	560.1	559.5
30°	557.9	556.7	555.6	555.1	554.5	553.9	553.9	553.9
32.5°	552.9	551.7	551.2	549.5	548.4	547.9	547.3	547.3
35°	551.2	549.5	548.4	546.7	545.1	544.0	543.4	542.3
37.5°	557.9	555.6	553.9	551.2	547.3	545.6	544.0	543.4
40°	572.3	570.1	566.8	562.3	557.9	554.5	551.7	550.6
42.5°	577.3	574.5	570.1	565.6	560.1	555.1	552.9	551.7
45°	578.9	576.1	570.1	564.5	559.5	555.1	551.7	550.6
47.5°	577.3	573.4	567.8	563.4	556.2	550.6	548.4	546.7
50°	581.1	577.8	570.6	560.6	554.5	551.2	547.3	546.7
52.5°	589.0	582.8	576.1	568.9	557.3	550.6	548.4	545.6
55°	612.2	603.9	592.3	580.6	573.4	562.8	556.2	556.2
57.5°	630.0	623.3	608.3	592.8	579.5	571.7	561.8	562.3
60°	625.0	616.2	608.9	593.4	574.5	563.9	560.1	552.9
61°	624.5	612.2	602.3	590.0	573.9	557.3	556.2	546.7
62.5°	625.5	614.5	595.6	582.8	570.6	549.0	548.4	539.6
65°	624.5	613.9	604.5	580.6	563.9	555.1	536.2	543.4
67.5°	607.3	597.8	580.6	567.3	541.7	530.7	520.1	520.1
70°	580.1	566.2	549.5	532.9	515.7	496.8	487.3	481.8
72.5°	534.5	522.9	509.5	491.8	470.7	453.5	444.6	440.7
75°	477.4	464.6	452.9	439.6	417.4	403.0	393.5	390.8
77.5°	417.4	406.3	385.8	373.0	358.0	341.4	333.1	329.7
80°	340.8	334.7	320.3	299.7	292.5	272.0	266.5	261.5
82.5°	255.9	249.2	235.9	221.5	212.6	200.9	190.9	189.9
85°	161.0	156.5	148.2	137.6	126.6	119.9	111.0	113.3
87.5°	60.0	57.2	52.2	45.5	40.5	36.1	31.6	33.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)