

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: P232741

Luminaire Tested: **CTN-10-8-D-E1-T5-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232741  
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-10-8-D-E1-T5-7030  
Description: CELESTEON HIGH MAST LUMINAIRE  
(10) 70 CRI, 3000K LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 79983 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G5

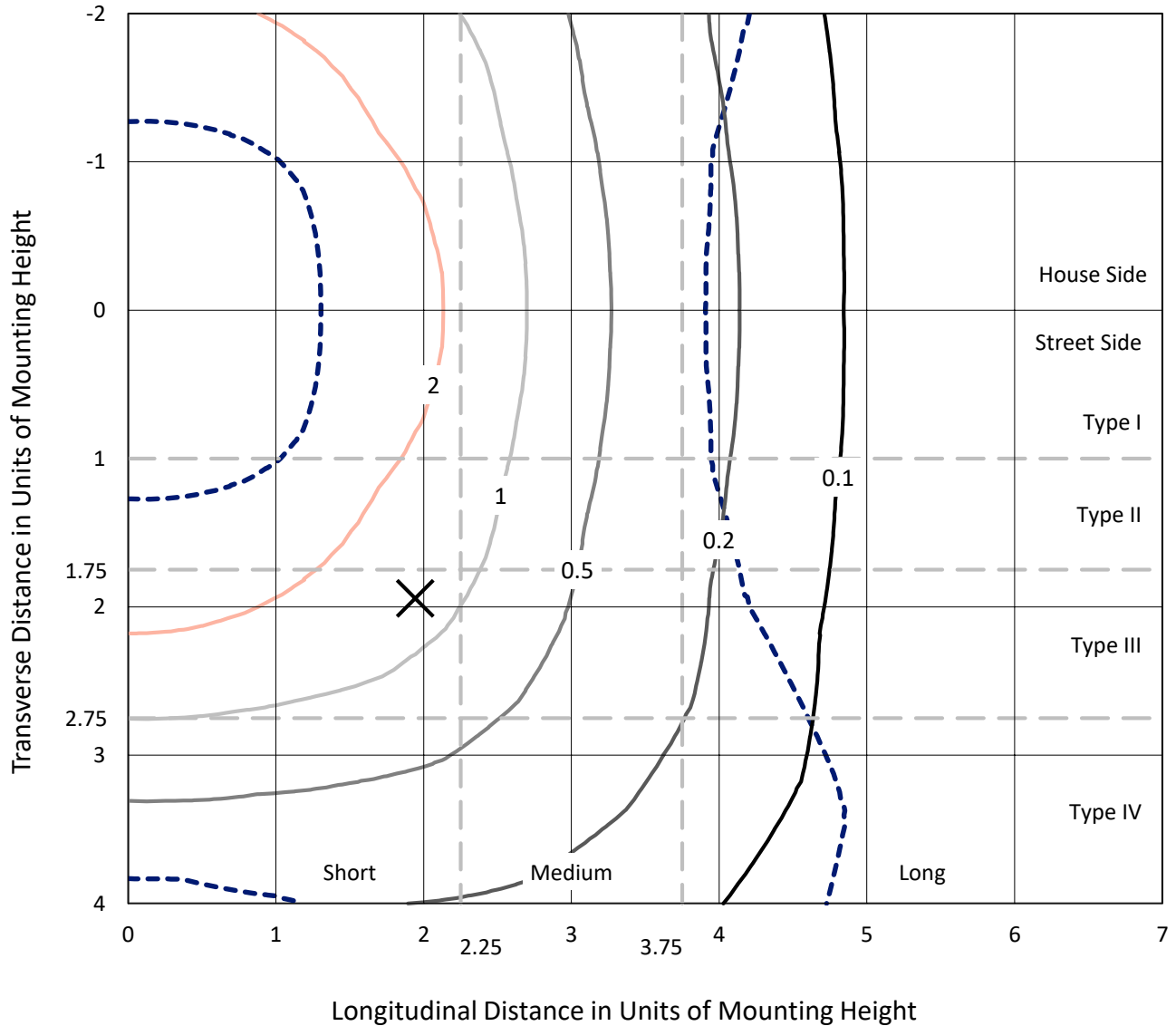
Input Watts (W): 631  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

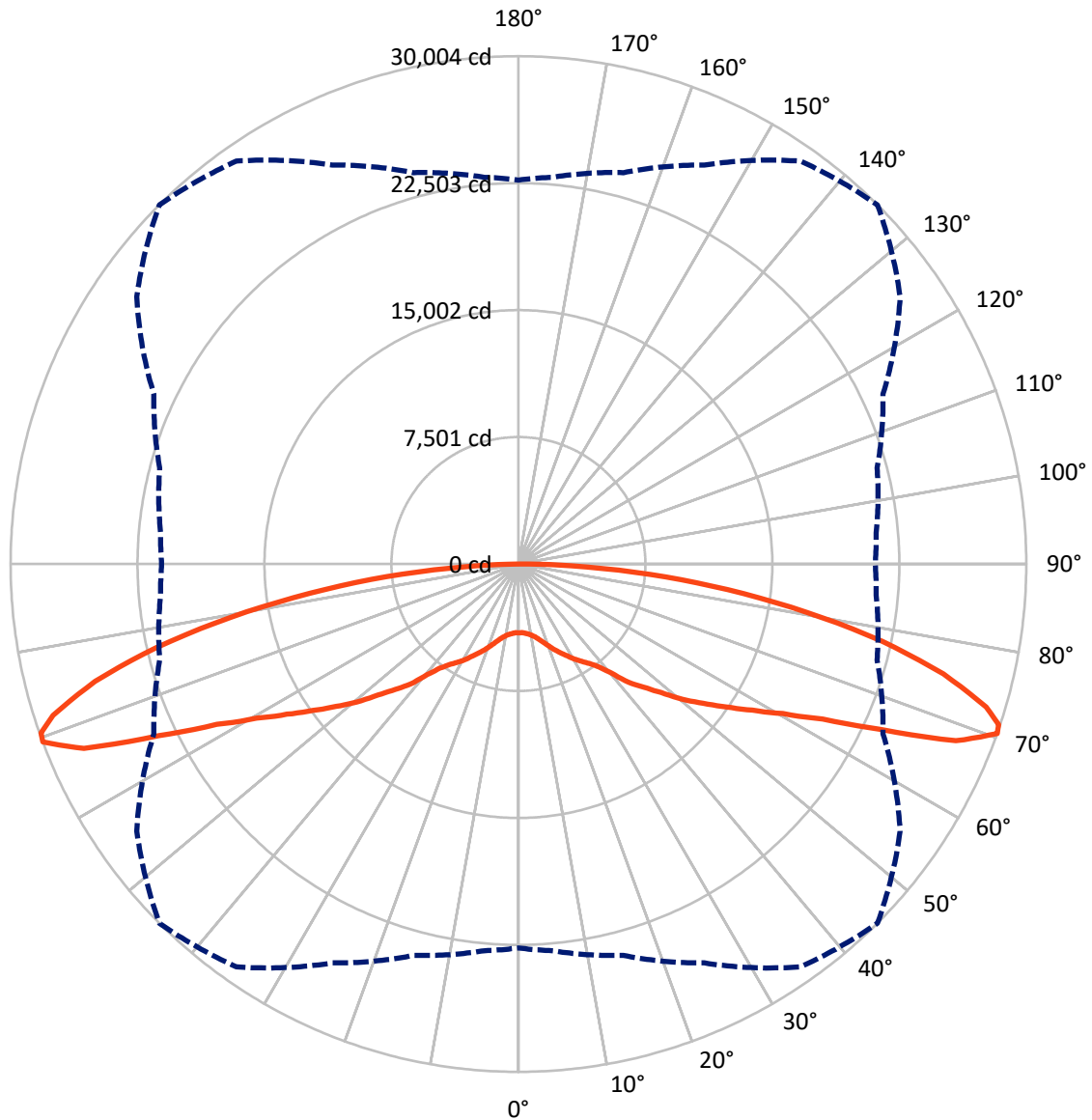


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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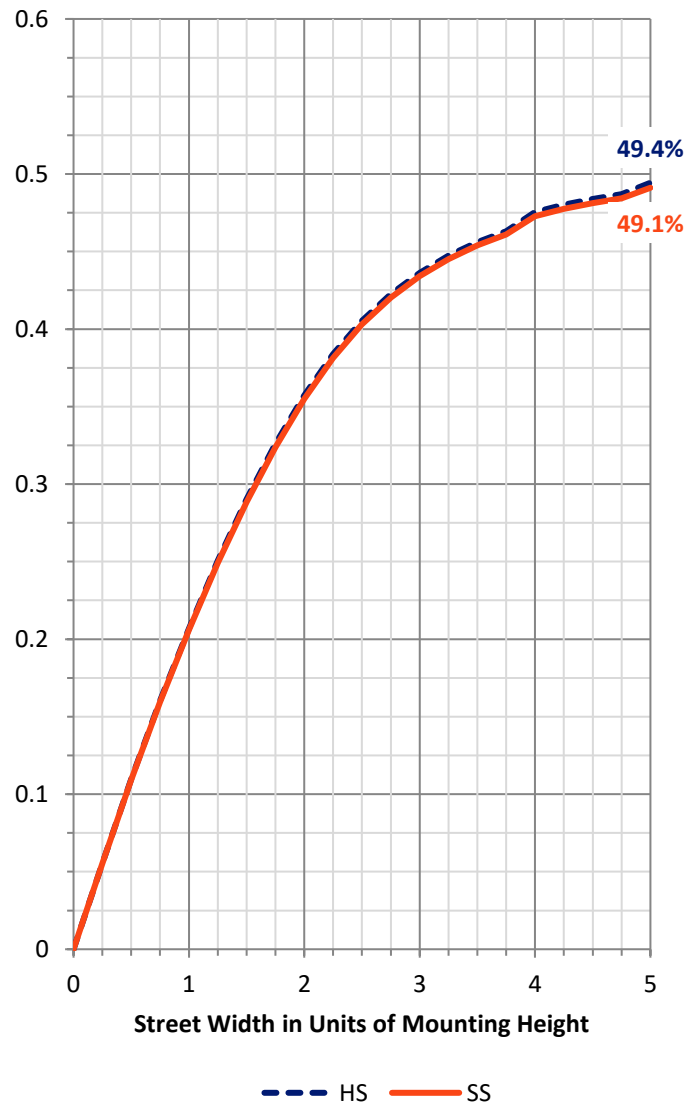
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	39991.5	0.0	39991.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	39991.5	0.0	39991.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	79983.0	0.0	79983.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.5	0.5
10°-20°	1326.3	1.7
20°-30°	2650.3	3.3
30°-40°	4557.7	5.7
40°-50°	8431.6	10.5
50°-60°	14331.2	17.9
60°-70°	23100.2	28.9
70°-80°	20416.6	25.5
80°-90°	4770.6	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°	79983.0	100.0
0°-180°	79983.0	100.0



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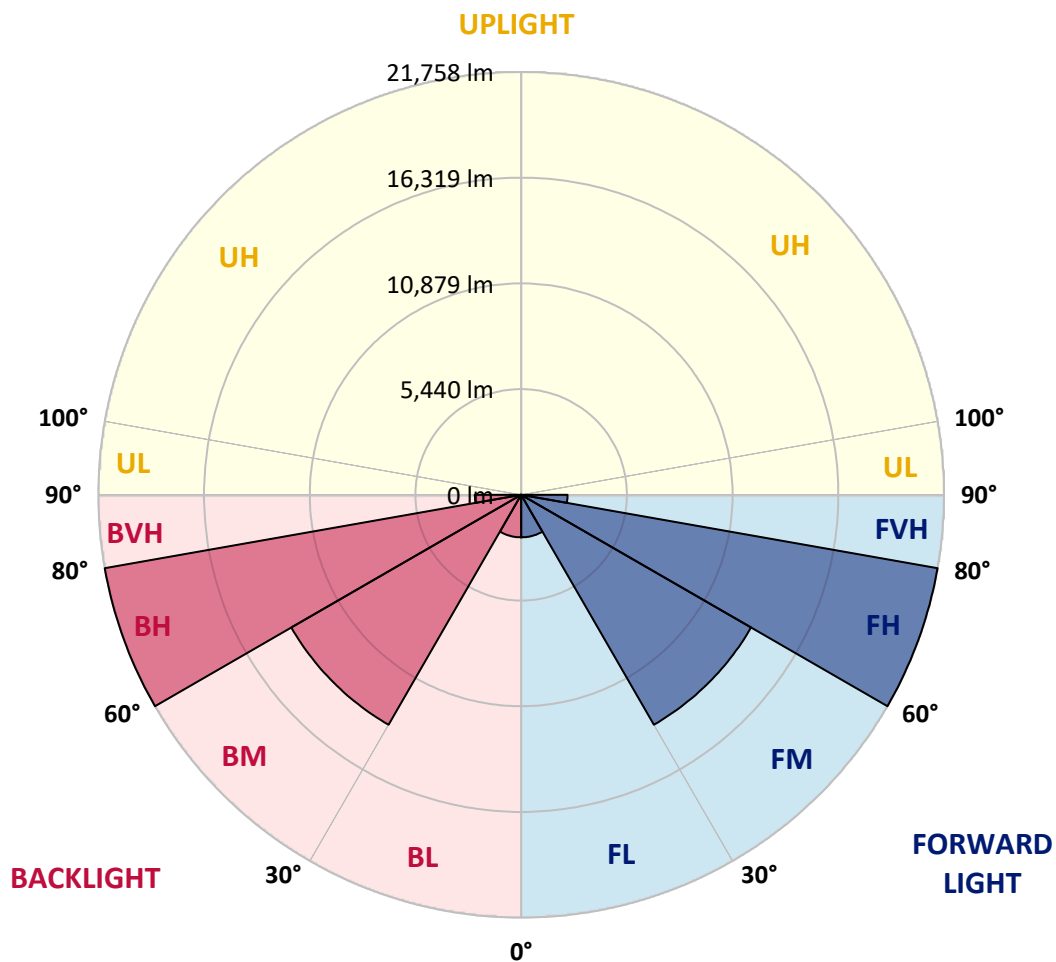
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2187.6	2.7			
FM	(30°-60°)	13660.2	17.1			
FH	(60°-80°)	21758.4	27.2			G5
FVH	(80°-90°)	2385.3	3.0			G5
BL	(0°-30°)	2187.6	2.7	B3/2500		
BM	(30°-60°)	13660.2	17.1	B5		
BH	(60°-80°)	21758.4	27.2	B5		G5
BVH	(80°-90°)	2385.3	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°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	4099.0	4091.4	4093.9	4093.9	4048.6	4058.7	4061.2	4088.9	4088.9	4101.5	4104.0
5°	4139.2	4126.6	4129.2	4139.2	4096.5	4104.0	4104.0	4131.7	4126.6	4141.7	4149.3
7.5°	4209.7	4199.6	4199.6	4209.7	4159.4	4171.9	4164.4	4189.6	4179.5	4187.0	4202.1
10°	4322.9	4320.4	4312.9	4317.9	4262.5	4270.1	4255.0	4282.7	4262.5	4265.0	4292.7
12.5°	4453.8	4451.2	4451.2	4458.8	4411.0	4423.6	4398.4	4408.5	4373.2	4378.3	4400.9
15°	4614.8	4619.8	4624.9	4647.5	4617.3	4629.9	4592.2	4587.1	4546.9	4546.9	4574.5
17.5°	4836.2	4836.2	4838.7	4889.1	4871.5	4891.6	4838.7	4803.5	4763.3	4768.3	4773.3
20°	5113.0	5103.0	5108.0	5168.4	5173.4	5188.5	5105.5	5057.7	5014.9	5017.4	5012.4
22.5°	5407.4	5387.3	5384.8	5467.8	5503.0	5508.1	5392.3	5347.0	5291.7	5299.2	5294.2
25°	5689.2	5669.1	5659.0	5727.0	5820.1	5815.1	5689.2	5623.8	5598.7	5598.7	5603.7
27.5°	5968.5	5943.4	5933.3	5973.6	6119.5	6144.7	5978.6	5920.7	5895.6	5918.2	5928.3
30°	6250.4	6230.2	6225.2	6237.8	6403.9	6514.6	6257.9	6232.8	6230.2	6250.4	6273.0
32.5°	6592.6	6590.1	6569.9	6567.4	6690.7	6851.7	6592.6	6607.7	6647.9	6693.2	6723.4
35°	7032.9	7027.9	6972.5	6997.7	7058.1	7209.1	7060.6	7070.7	7178.9	7246.8	7284.5
37.5°	7619.2	7581.5	7511.0	7513.5	7543.7	7697.2	7639.3	7717.3	7913.6	8039.4	8026.8
40°	8449.6	8389.2	8283.5	8253.3	8248.3	8467.2	8522.5	8698.7	9008.2	9194.4	9181.8
42.5°	9637.2	9574.3	9413.3	9370.5	9388.1	9559.2	9720.3	9999.6	10268.8	10485.2	10472.6
45°	10855.1	10774.6	10515.4	10369.5	10243.7	10374.5	10626.1	11063.9	11386.0	11670.4	11665.3
47.5°	12264.2	12138.4	11826.4	11547.1	11295.4	11343.3	11612.5	12113.2	12503.2	12787.6	12770.0
50°	13794.1	13668.3	13326.1	12905.8	12515.8	12548.5	12679.4	13207.8	13595.3	13872.1	13877.1
52.5°	15429.6	15339.1	14946.5	14390.4	13854.5	13670.8	13753.8	14242.0	14687.3	14949.0	14971.7
55°	17193.5	17105.5	16692.8	16051.2	15316.4	14903.7	14901.2	15391.9	15842.3	16071.3	16106.5
57.5°	18962.5	18914.6	18552.3	17852.8	16926.8	16295.2	16151.8	16662.6	17168.4	17404.9	17452.7
60°	20784.2	20718.8	20416.8	19830.6	18814.0	17948.4	17706.8	18217.6	18788.8	19032.9	19063.1
62.5°	22847.5	22782.1	22550.6	21931.6	21181.8	20180.3	19830.6	20301.1	20829.5	21219.5	21179.3
65°	24910.9	24895.8	24993.9	24714.6	24140.9	23567.2	22877.7	23393.6	23783.6	23745.8	23733.3
67.5°	24581.2	24676.9	25356.2	26325.0	27535.3	27877.5	26284.7	24840.4	23989.9	23496.7	23340.7
70°	22684.0	22930.6	23937.1	26002.9	29055.1	30003.8	27527.8	23763.5	21936.7	21217.0	21078.6
71°	21637.2	21831.0	22991.0	25514.8	29065.2	29920.7	27233.4	22953.2	21096.2	20109.9	20014.2
72.5°	19599.1	19898.5	21179.3	24178.6	28182.0	28901.6	25950.1	21443.5	19498.4	18537.2	18484.4
75°	15668.7	15759.3	17412.4	20819.4	25376.4	25947.6	23036.3	18607.7	16602.2	15945.5	15907.7
77.5°	11058.9	11061.4	12646.7	16229.8	21038.4	21964.3	19951.3	15341.6	13316.0	12490.7	12307.0
80°	5857.8	6096.9	7669.5	11154.5	15759.3	17284.1	15854.9	11599.9	9363.0	8157.7	7989.1
82.5°	2669.7	2840.8	3859.9	6323.3	10364.4	12447.9	10877.7	7531.1	5017.4	3716.5	3608.3
85°	1036.7	1061.9	1592.8	3004.4	5794.9	7807.9	6333.4	3530.3	1746.3	1066.9	988.9
87.5°	339.7	362.3	518.3	1157.5	2465.9	3117.6	2448.3	1061.9	339.7	211.4	203.8
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)