

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: P140580

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140580
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E01-LED-E1-5XQ
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2981.5 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-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

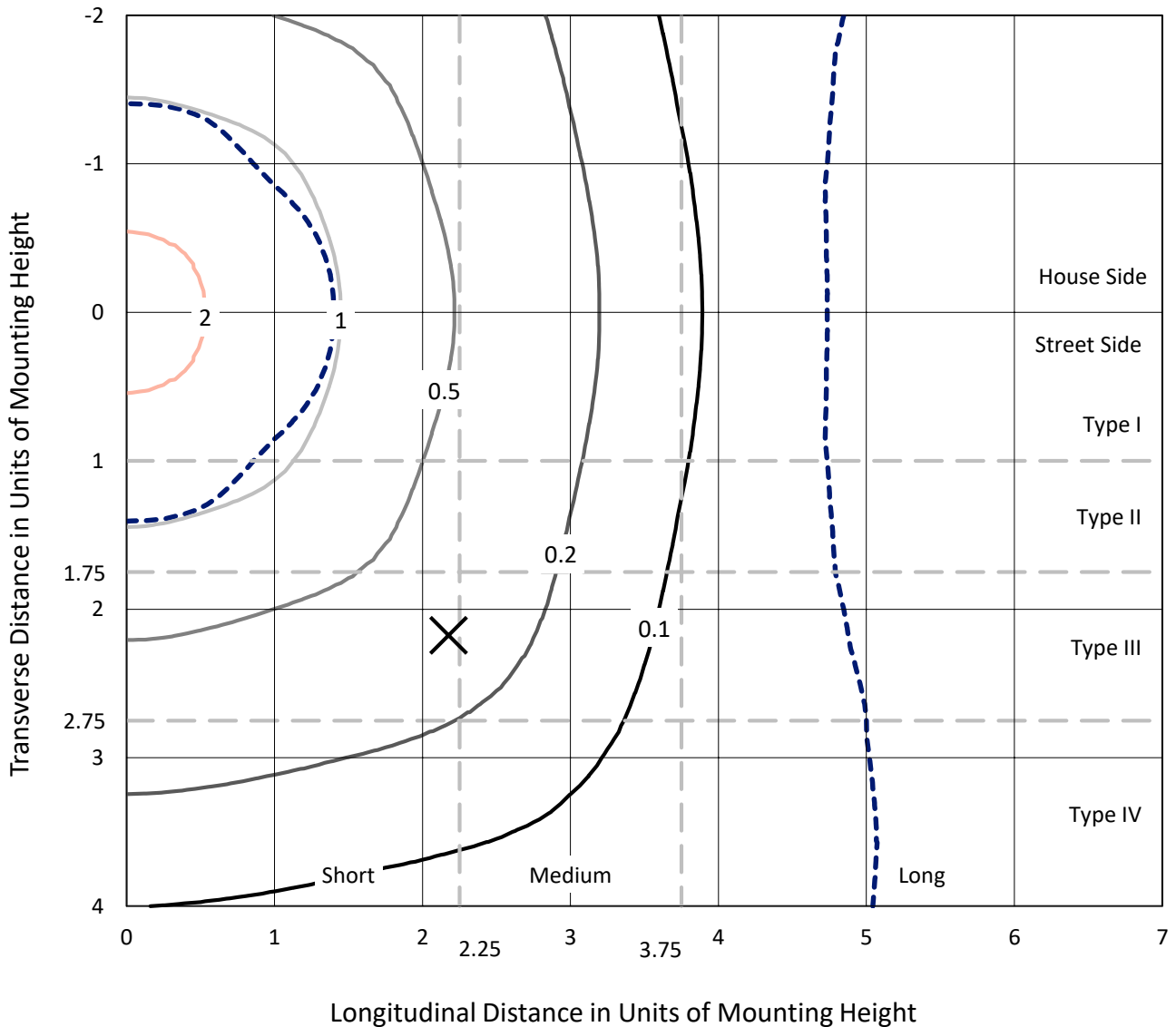


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

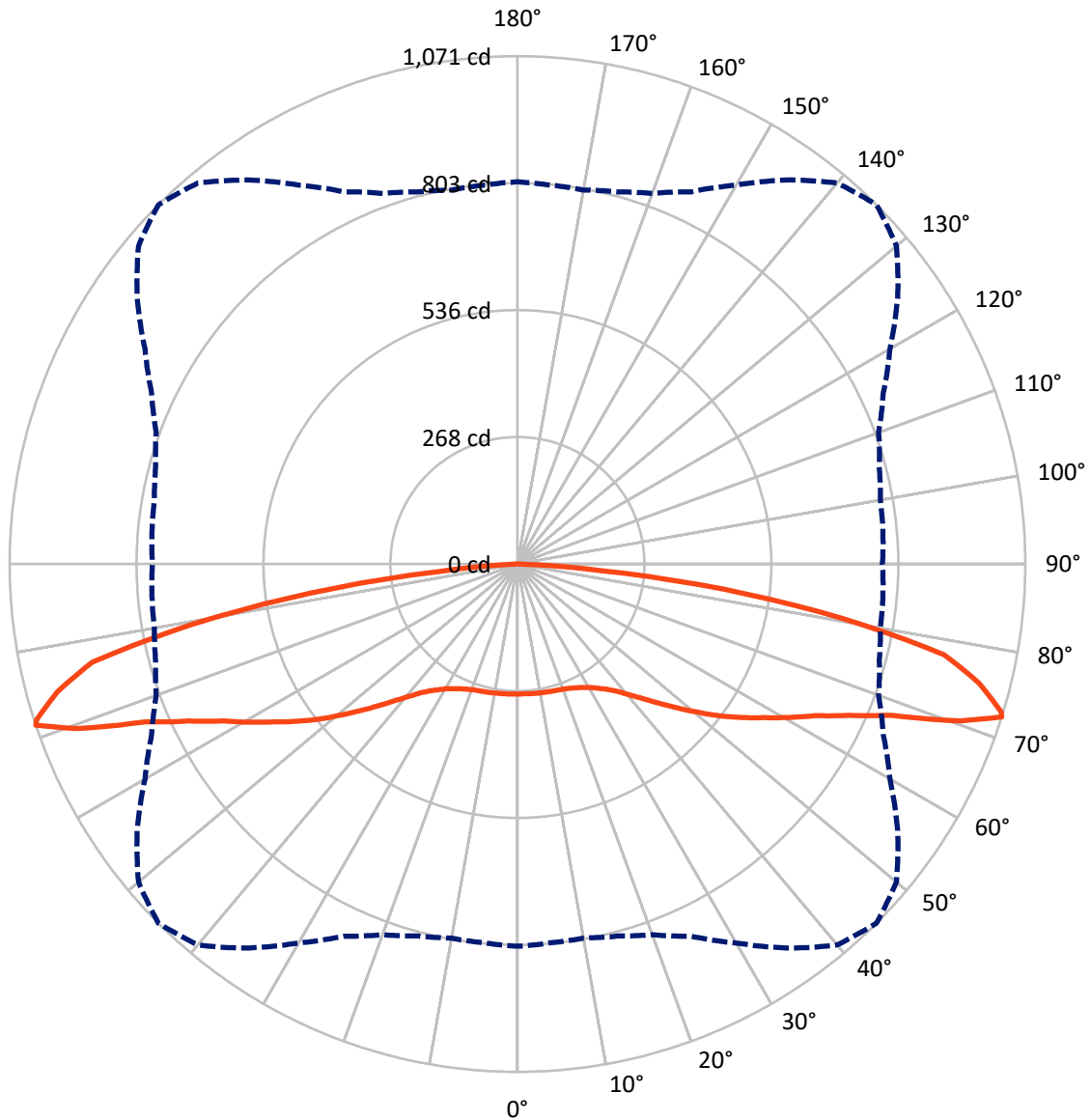


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1490.8	0.0	1490.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1490.8	0.0	1490.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	2981.5	0.0	2981.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	0.9
10°-20°	79.1	2.7
20°-30°	133.8	4.5
30°-40°	203.6	6.8
40°-50°	322.4	10.8
50°-60°	494.0	16.6
60°-70°	725.3	24.3
70°-80°	822.7	27.6
80°-90°	174.3	5.8
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°	2981.5	100.0
0°-180°	2981.5	100.0



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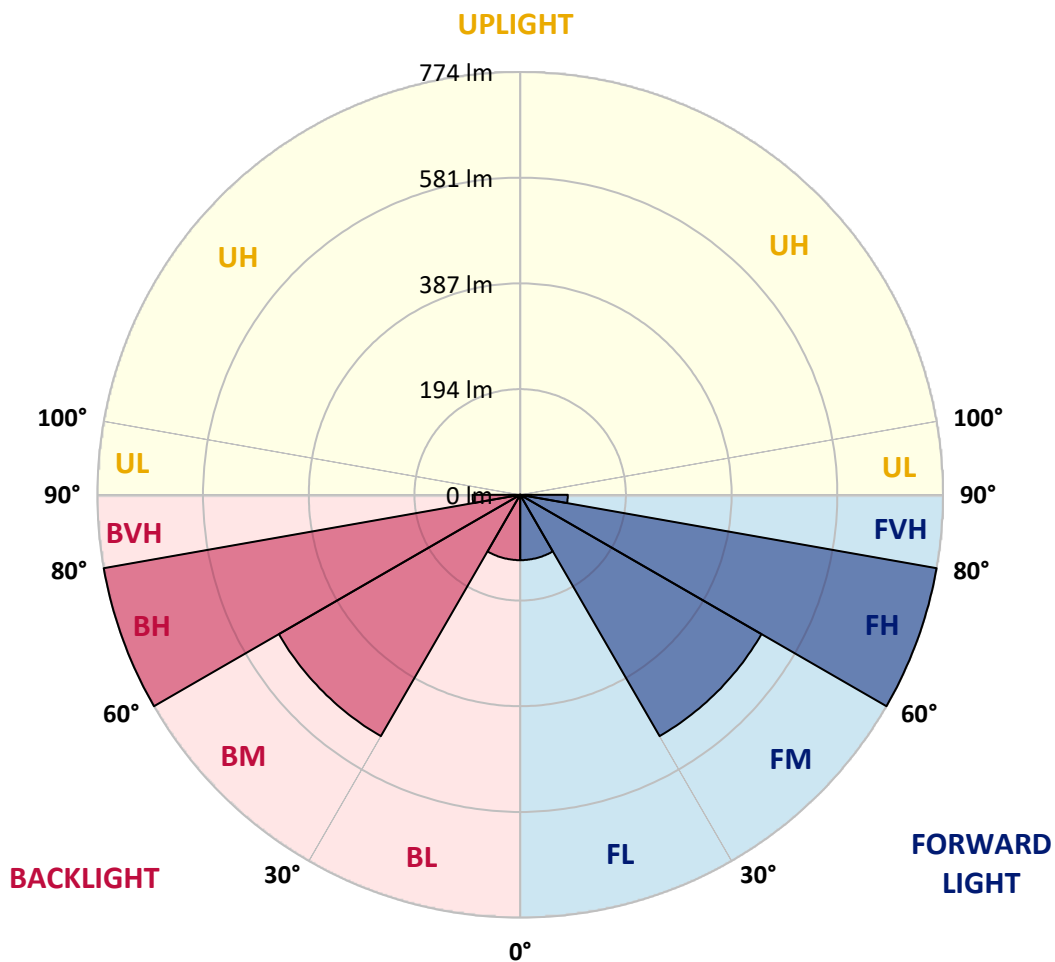
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.6	4.0			
FM (30°-60°)	510.0	17.1			
FH (60°-80°)	774.0	26.0			G1/1800
FVH (80°-90°)	87.1	2.9			G1/100
BL (0°-30°)	119.6	4.0	B1/500		
BM (30°-60°)	510.0	17.1	B1/1000		
BH (60°-80°)	774.0	26.0	B2/1000		G1/1800
BVH (80°-90°)	87.1	2.9			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°	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
2.5°	275.0	275.3	275.0	274.7	274.7	274.3	274.3	274.3	274.7	274.0	274.0
5°	275.7	276.0	275.7	275.0	275.0	275.0	274.7	274.7	275.0	274.7	274.7
7.5°	276.7	277.0	276.7	276.0	276.0	275.7	275.3	275.3	276.0	275.3	275.3
10°	277.7	278.3	277.7	277.0	277.0	276.7	276.3	276.3	276.7	276.0	276.0
12.5°	279.3	279.3	279.0	278.7	278.7	278.3	278.0	277.7	277.3	277.0	276.7
15°	280.7	281.0	280.3	280.0	279.7	279.3	279.0	279.0	278.3	278.0	278.0
17.5°	282.3	282.7	282.0	281.3	281.3	280.7	280.3	280.3	279.7	279.3	279.0
20°	284.0	284.3	283.7	283.3	283.0	282.7	282.0	282.3	282.0	281.3	281.3
22.5°	286.0	286.0	285.7	285.3	285.3	285.0	284.7	285.3	284.7	284.7	284.3
25°	288.0	288.3	288.0	288.0	288.3	288.3	288.7	289.3	289.3	289.0	288.7
27.5°	292.3	292.3	292.3	292.3	293.3	293.3	293.7	294.7	295.0	295.0	295.0
30°	298.0	298.3	298.0	298.0	299.0	299.3	300.3	301.3	302.0	302.0	302.3
32.5°	306.3	306.0	306.3	307.0	307.7	308.3	309.3	311.0	312.0	312.3	312.3
35°	317.0	317.3	317.0	317.3	318.7	319.7	320.7	322.7	323.3	324.0	324.3
37.5°	332.7	333.7	333.0	333.0	334.7	335.3	336.7	338.3	339.7	340.3	340.0
40°	355.3	355.0	354.3	354.7	355.0	355.7	357.0	360.3	362.0	362.0	362.0
42.5°	381.3	381.7	380.7	380.3	380.7	381.3	383.3	386.0	388.7	388.0	388.3
45°	411.0	408.7	409.3	408.7	409.0	411.3	414.7	416.0	418.7	418.7	419.3
47.5°	440.0	439.0	438.7	438.3	439.3	441.7	445.7	450.0	452.3	453.7	454.7
50°	472.7	471.0	470.7	471.0	471.3	472.0	479.7	484.0	489.7	490.7	490.3
52.5°	504.3	503.0	502.3	502.3	503.7	506.0	514.0	521.0	527.3	531.3	529.7
55°	538.7	538.7	536.7	536.0	538.0	540.3	551.3	559.3	568.3	571.3	566.7
57.5°	574.0	573.7	570.7	569.7	571.3	577.3	586.7	599.0	608.7	611.3	608.7
60°	608.7	608.7	607.0	606.3	608.0	615.3	626.7	640.3	652.0	657.0	652.7
62.5°	648.3	648.3	644.0	646.0	648.3	654.0	668.3	686.0	701.7	704.3	700.3
65°	693.3	695.3	692.0	691.3	694.3	705.0	721.3	743.7	762.0	769.0	763.0
67.5°	762.0	759.0	755.0	753.3	758.0	768.0	788.0	817.3	844.3	851.0	844.0
70°	833.3	830.3	829.0	834.3	844.3	865.3	896.0	937.0	974.7	990.7	976.0
72°	806.0	802.0	801.0	812.3	831.7	866.0	922.7	988.7	1048.7	1071.0	1043.3
72.5°	792.0	788.7	788.3	799.0	820.0	854.7	910.3	978.3	1042.7	1067.0	1037.3
75°	735.3	732.0	735.3	747.3	768.3	805.7	862.3	926.0	984.0	1006.3	977.3
77.5°	657.0	651.0	654.0	670.7	694.0	734.7	794.7	870.0	926.0	920.0	877.0
80°	524.3	511.0	525.3	530.3	557.0	584.3	642.3	676.0	695.3	696.3	665.7
82.5°	229.0	234.3	252.3	267.3	286.3	318.0	341.3	377.7	420.0	439.7	416.0
85°	15.0	18.7	29.7	35.3	49.0	59.7	85.7	124.7	150.3	172.0	145.0
87.5°	2.7	3.7	6.7	8.0	8.7	9.7	9.7	13.3	14.0	11.3	12.7
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°	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
2.5°	274.0	274.0	274.3	274.0	274.0	274.0	273.7	273.7
5°	274.3	274.3	274.7	274.7	274.3	274.3	274.3	274.3
7.5°	275.3	275.0	275.3	275.3	275.0	275.0	274.7	275.0
10°	275.7	275.7	276.0	276.0	275.7	275.7	275.7	275.7
12.5°	276.7	276.7	276.7	277.0	276.7	276.7	277.0	276.7
15°	277.7	277.3	277.3	277.3	277.3	277.7	277.7	278.0
17.5°	278.7	278.7	278.3	278.7	278.7	279.0	279.0	279.0
20°	280.7	280.3	279.7	280.3	280.3	280.3	280.3	280.7
22.5°	283.7	283.0	282.3	282.3	282.0	282.3	282.0	282.0
25°	288.0	287.0	286.0	285.7	285.3	285.0	284.7	285.0
27.5°	294.3	293.0	291.7	291.0	290.7	290.0	289.7	289.7
30°	301.3	300.3	298.3	297.7	296.7	295.7	295.7	295.3
32.5°	312.0	310.7	308.3	307.3	305.7	304.7	304.3	304.3
35°	323.0	321.3	320.3	319.0	317.0	316.0	315.7	315.7
37.5°	339.7	337.7	336.3	334.7	334.3	333.0	333.0	333.0
40°	361.3	359.7	358.0	356.7	355.7	354.7	353.3	353.3
42.5°	388.0	385.3	384.3	382.7	381.3	380.3	379.7	379.7
45°	417.3	415.0	413.7	411.3	411.0	410.3	409.0	409.0
47.5°	450.3	447.0	444.3	443.7	442.0	440.3	439.7	440.0
50°	486.3	480.7	477.0	477.0	475.0	472.7	473.0	472.7
52.5°	523.3	517.0	512.3	509.0	506.7	506.3	506.7	506.3
55°	560.7	554.0	548.3	544.7	542.3	540.0	539.7	539.7
57.5°	599.3	591.0	582.0	578.7	576.3	575.0	575.0	575.3
60°	643.0	629.3	618.0	613.7	612.0	612.7	612.3	612.7
62.5°	687.3	671.7	658.3	653.3	651.0	650.7	653.3	654.3
65°	743.3	724.0	709.0	699.7	699.7	698.7	701.7	700.3
67.5°	816.3	789.0	770.7	755.7	756.0	757.0	761.3	761.0
70°	940.7	892.3	858.3	832.7	822.7	816.0	814.7	814.7
72°	979.0	907.0	851.0	810.7	790.0	777.3	773.7	769.7
72.5°	969.0	895.0	838.3	796.3	775.0	762.3	756.7	751.7
75°	906.0	823.3	761.7	717.7	694.0	678.7	675.7	673.3
77.5°	799.3	726.0	662.3	616.7	593.0	573.3	565.3	564.7
80°	616.3	550.3	501.3	465.7	444.3	429.7	430.3	425.7
82.5°	363.7	308.0	266.0	218.3	187.0	169.0	157.7	156.3
85°	107.0	72.7	46.3	33.3	24.0	18.0	13.3	12.0
87.5°	9.7	7.7	6.3	5.3	5.0	4.3	2.7	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)