

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: P533029

Luminaire Tested: **GALN-SA8B-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22206 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

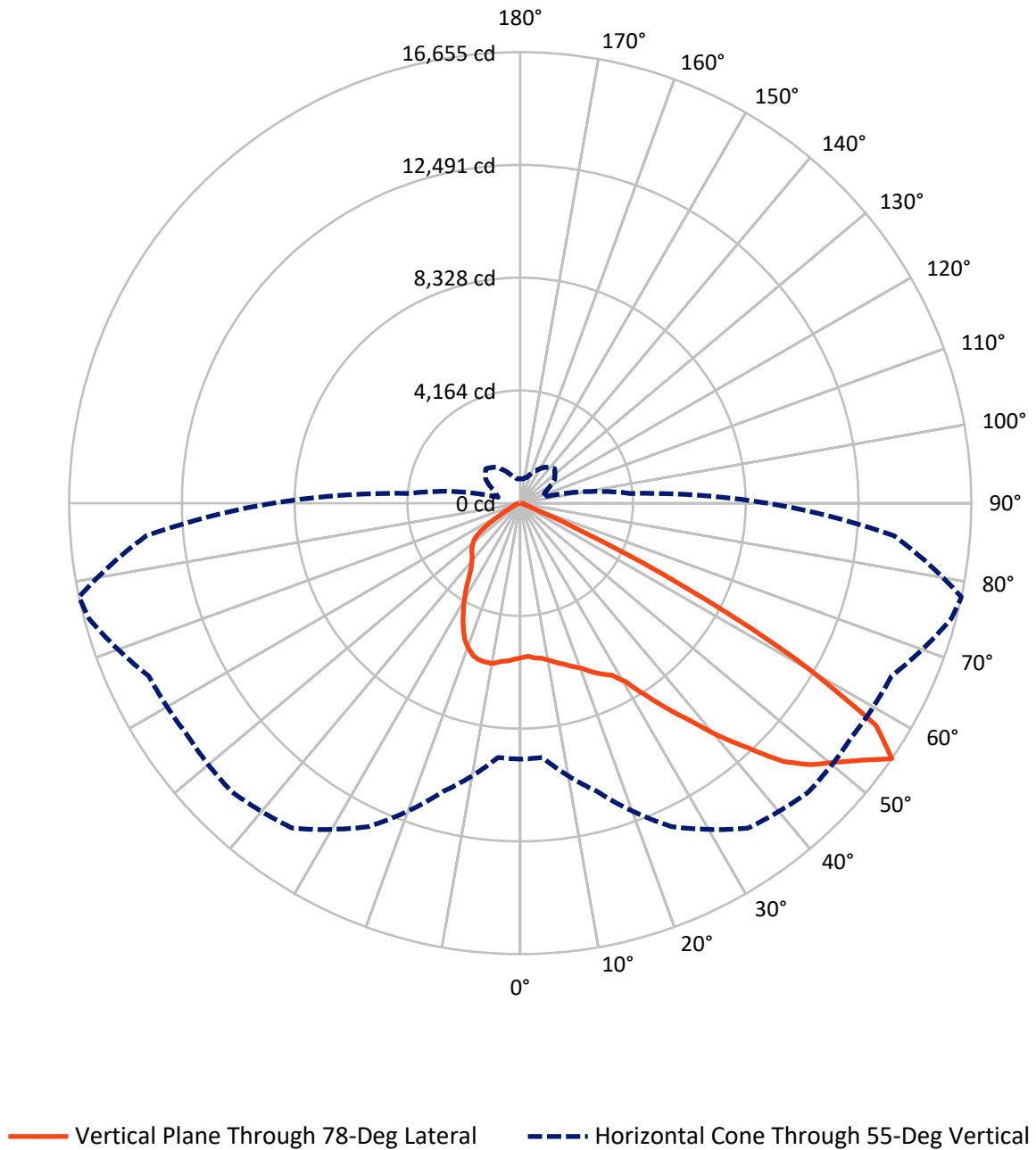
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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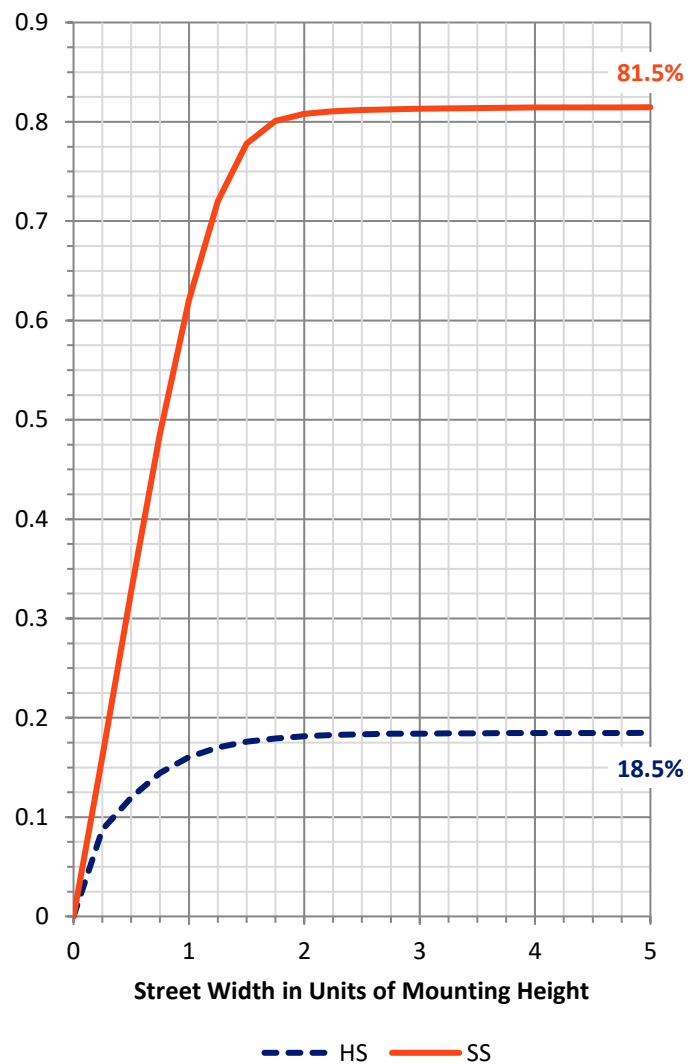
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4124.5	0.0	4124.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18081.5	0.0	18081.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	22206.0	0.0	22206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.1	2.3
10°-20°	1347.3	6.1
20°-30°	2361.5	10.6
30°-40°	3893.9	17.5
40°-50°	5666.1	25.5
50°-60°	6420.3	28.9
60°-70°	1835.7	8.3
70°-80°	142.5	0.6
80°-90°	29.7	0.1
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°	22206.0	100.0
0°-180°	22206.0	100.0

Coefficient of Utilization



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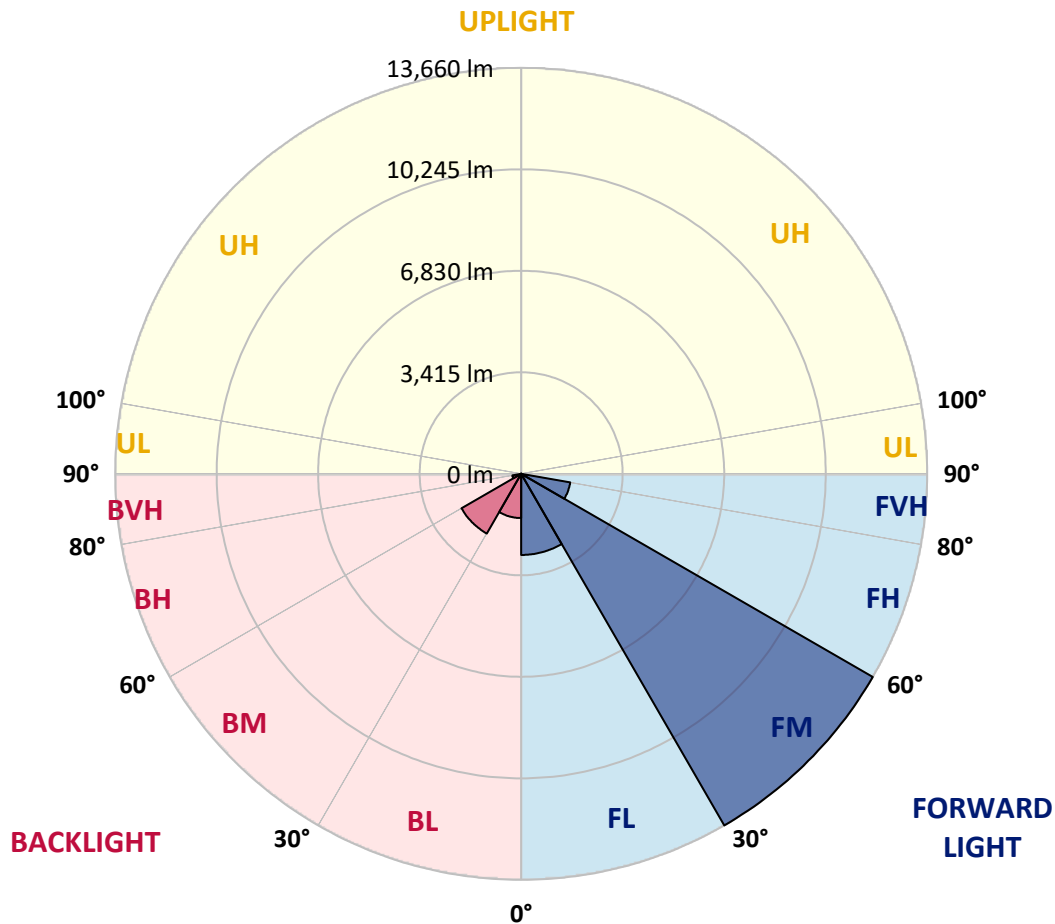
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2729.8	12.3			
FM	(30°-60°)	13660.1	61.5			
FH	(60°-80°)	1677.1	7.6			G1/1800
FVH	(80°-90°)	14.4	0.1			G1/100
BL	(0°-30°)	1488.1	6.7	B3/2500		
BM	(30°-60°)	2320.1	10.4	B2/2500		
BH	(60°-80°)	301.1	1.4	B1/500		G1/500
BVH	(80°-90°)	15.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2
2.5°	5367.7	5419.3	5427.3	5490.8	5486.8	5594.0	5625.8	5629.8	5701.2	5665.5	5756.8
5°	5216.9	5189.1	5177.2	5288.3	5320.1	5415.4	5494.8	5542.4	5689.3	5740.9	5836.2
7.5°	5081.9	5081.9	5089.8	5189.1	5177.2	5300.2	5383.6	5530.5	5744.9	5788.6	5903.7
10°	4950.9	4903.2	4962.8	5066.0	5153.3	5208.9	5383.6	5522.6	5772.7	5899.7	6058.6
12.5°	4883.4	4907.2	4915.1	4990.6	5085.9	5252.6	5347.9	5578.2	5971.2	6046.6	6217.4
15°	5308.2	5260.5	5145.4	5077.9	5157.3	5236.7	5474.9	5709.2	6074.4	6181.6	6372.2
17.5°	5800.5	5760.8	5665.5	5482.9	5304.2	5451.1	5637.7	5852.1	6185.6	6344.4	6626.3
20°	6443.7	6380.1	6284.9	5927.5	5772.7	5613.9	5812.4	6066.5	6368.2	6511.2	6801.0
22.5°	7209.9	7209.9	6995.5	6562.8	6241.2	6090.3	6173.7	6320.6	6570.7	6765.3	7051.1
25°	8007.9	7984.1	7789.6	7340.9	6797.0	6618.4	6713.6	6816.9	6884.4	6991.6	7182.1
27.5°	8921.1	8782.1	8536.0	8039.7	7559.3	7213.9	7317.1	7225.8	7142.4	7198.0	7472.0
30°	9540.4	9627.8	9314.1	8837.7	8385.1	8000.0	8019.8	7940.4	7559.3	7638.7	7801.5
32.5°	10183.6	10239.2	10064.5	9802.5	9349.9	8901.2	8738.5	8671.0	8385.1	8420.8	8262.0
35°	10719.6	10826.8	10672.0	10556.8	10425.8	10064.5	9615.9	9834.2	9373.7	9286.3	8873.4
37.5°	11211.9	11180.1	11362.8	11243.7	11215.9	10961.8	10469.5	10513.1	10203.5	10183.6	9707.2
40°	11652.6	11660.5	11910.7	11966.2	11855.1	11402.5	10687.8	11033.2	11283.4	11307.2	10695.8
42.5°	12017.9	12125.1	12339.4	12788.1	12621.3	11867.0	10914.1	11291.3	12220.3	12367.2	11632.7
45°	12335.5	12553.8	12819.8	13220.8	13125.5	12526.0	11477.9	11823.3	13220.8	13605.9	12514.1
47.5°	12355.3	12641.2	12931.0	13526.5	13645.6	12879.4	12061.5	12665.0	14014.9	14431.7	13157.3
50°	12275.9	12426.8	13006.4	13653.6	13923.6	13455.1	12879.4	13371.7	14785.1	15047.1	13482.9
52.5°	11335.0	11450.1	12613.4	13772.7	14423.8	14106.2	13963.3	14356.3	15571.2	15765.7	13788.6
55°	9449.1	9429.3	11029.3	13173.2	14654.1	15071.0	14983.6	15122.6	16480.4	16655.1	13864.0
57.5°	6463.5	6824.8	8206.4	10969.7	13244.7	14844.7	14936.0	14705.7	15420.3	15487.8	12085.3
60°	3485.9	3636.7	4748.4	7321.1	10084.4	12097.3	12335.5	11918.6	11863.0	11672.4	8627.3
62.5°	1385.6	1461.0	2092.3	3624.8	5494.8	7352.8	7865.0	7694.3	7329.0	6828.8	4466.5
65°	659.1	706.7	1040.2	1695.3	2437.7	3065.0	3577.2	3736.0	2755.3	2481.4	1473.0
67.5°	448.6	484.4	758.3	968.7	869.5	909.2	1183.1	1099.8	647.1	551.9	408.9
70°	341.4	365.3	607.4	659.1	389.1	273.9	305.7	285.9	266.0	270.0	266.0
72.5°	242.2	262.0	444.7	389.1	170.7	127.0	162.8	194.5	194.5	194.5	190.6
75°	146.9	166.7	258.1	150.9	67.5	67.5	103.2	131.0	139.0	142.9	135.0
77.5°	75.4	95.3	87.3	43.7	43.7	51.6	75.4	91.3	99.3	99.3	95.3
80°	15.9	15.9	15.9	23.8	43.7	55.6	75.4	83.4	95.3	95.3	87.3
82.5°	0.0	4.0	11.9	23.8	39.7	51.6	71.5	83.4	95.3	99.3	91.3
85°	0.0	4.0	7.9	15.9	27.8	31.8	27.8	23.8	23.8	23.8	23.8
87.5°	0.0	0.0	4.0	4.0	4.0	7.9	7.9	7.9	7.9	7.9	7.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2	5709.2
2.5°	5764.8	5776.7	5756.8	5752.8	5737.0	5784.6	5669.5	5641.7	5713.1	5645.7	5661.5
5°	5840.2	5868.0	5832.3	5772.7	5685.4	5550.4	5435.2	5284.4	5212.9	5161.3	5153.3
7.5°	5895.8	5915.6	5879.9	5689.3	5427.3	5085.9	4831.8	4645.2	4498.3	4454.6	4383.1
10°	6122.1	6126.0	5947.4	5526.5	5014.4	4565.8	4176.7	3890.8	3743.9	3652.6	3612.9
12.5°	6272.9	6265.0	5903.7	5205.0	4522.1	3926.5	3481.9	3136.5	3001.5	2957.8	2930.0
15°	6463.5	6419.8	5800.5	4875.4	3886.8	3243.7	2842.7	2604.5	2592.6	2564.8	2592.6
17.5°	6614.4	6491.3	5649.6	4275.9	3279.4	2672.0	2409.9	2425.8	2457.6	2485.4	2489.3
20°	6860.5	6606.4	5304.2	3751.9	2715.6	2290.8	2286.8	2358.3	2437.7	2469.5	2501.2
22.5°	7047.1	6654.1	4935.0	3192.1	2255.1	2136.0	2203.5	2310.7	2370.2	2402.0	2449.6
25°	7114.6	6523.1	4442.7	2632.3	2032.8	2064.5	2167.7	2239.2	2314.6	2350.4	2330.5
27.5°	7182.1	6455.6	3855.1	2167.7	1913.6	2016.9	2104.2	2175.7	2199.5	2247.1	2278.9
30°	7344.9	6221.3	3327.0	1873.9	1854.1	1985.1	2048.6	2072.5	2136.0	2163.8	2163.8
32.5°	7475.9	6130.0	2767.2	1735.0	1846.2	2001.0	2008.9	2008.9	2016.9	1997.0	1989.1
35°	7745.9	5816.4	2267.0	1651.6	1842.2	2005.0	2024.8	1957.3	1774.7	1703.2	1683.4
37.5°	8079.4	5613.9	1897.8	1631.8	1870.0	2052.6	2084.4	1830.3	1592.1	1476.9	1457.1
40°	8484.4	5471.0	1655.6	1623.8	1933.5	2163.8	2068.5	1731.0	1421.3	1254.6	1246.6
42.5°	8956.8	5339.9	1492.8	1619.8	2012.9	2278.9	2052.6	1647.6	1246.6	1135.5	1151.4
45°	9334.0	5268.5	1381.6	1592.1	2040.7	2346.4	2064.5	1500.7	1175.2	1103.7	1111.7
47.5°	9627.8	5117.6	1290.3	1544.4	2036.7	2370.2	1957.3	1441.2	1139.5	1159.3	1179.2
50°	9635.7	4915.1	1175.2	1441.2	1977.2	2326.5	1834.2	1385.6	1131.5	1214.9	1254.6
52.5°	9528.5	4629.3	1052.1	1294.3	1838.2	2175.7	1723.1	1361.8	1095.8	1087.8	1135.5
55°	9147.4	4093.3	845.7	1048.1	1552.4	1794.5	1623.8	1318.1	988.6	897.3	905.2
57.5°	7392.5	2934.0	623.3	750.4	1099.8	1314.1	1465.0	1298.3	889.3	762.3	766.3
60°	4577.7	1663.5	456.6	512.2	678.9	798.0	1187.1	1206.9	794.0	643.2	635.2
62.5°	2350.4	821.8	353.3	361.3	416.9	468.5	813.9	1012.4	718.6	611.4	611.4
65°	786.1	405.0	309.7	277.9	277.9	289.8	492.3	702.7	607.4	512.2	512.2
67.5°	337.5	301.7	270.0	242.2	222.3	210.4	277.9	408.9	452.6	389.1	373.2
70°	262.0	254.1	234.2	202.5	174.7	158.8	162.8	210.4	258.1	250.1	242.2
72.5°	194.5	194.5	186.6	158.8	135.0	115.1	107.2	111.2	123.1	127.0	131.0
75°	135.0	139.0	139.0	123.1	99.3	83.4	71.5	59.6	47.6	39.7	35.7
77.5°	91.3	95.3	103.2	91.3	75.4	55.6	43.7	31.8	19.9	7.9	7.9
80°	79.4	91.3	99.3	91.3	79.4	59.6	43.7	23.8	11.9	0.0	0.0
82.5°	83.4	91.3	103.2	87.3	75.4	55.6	43.7	27.8	11.9	4.0	0.0
85°	19.9	19.9	23.8	27.8	35.7	39.7	31.8	19.9	11.9	4.0	0.0
87.5°	7.9	7.9	7.9	7.9	7.9	4.0	4.0	4.0	4.0	0.0	0.0
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)