

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: IRiS

Report Number: P106557

Luminaire Tested: **P3LED09NFL25927-E3LWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P106557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13685)
Test Lab: PEACHTREE CITY
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: P3LED09NFL25927-E3LWWH
Description: IRIS 3 INCH LED LENSED WALL WASH FIXTURE WITH
SEMI SPECULAR CLEAR OPTICAL ELEMENT
AND 25 DEGREE PRIMARY OPTIC, 20 DEGREE AIMING ANGLE
Light Source: (1) 2700K 90CRI LED
Ballast/Driver: (1) 340mA ELECTRONIC DRIVER

Summary

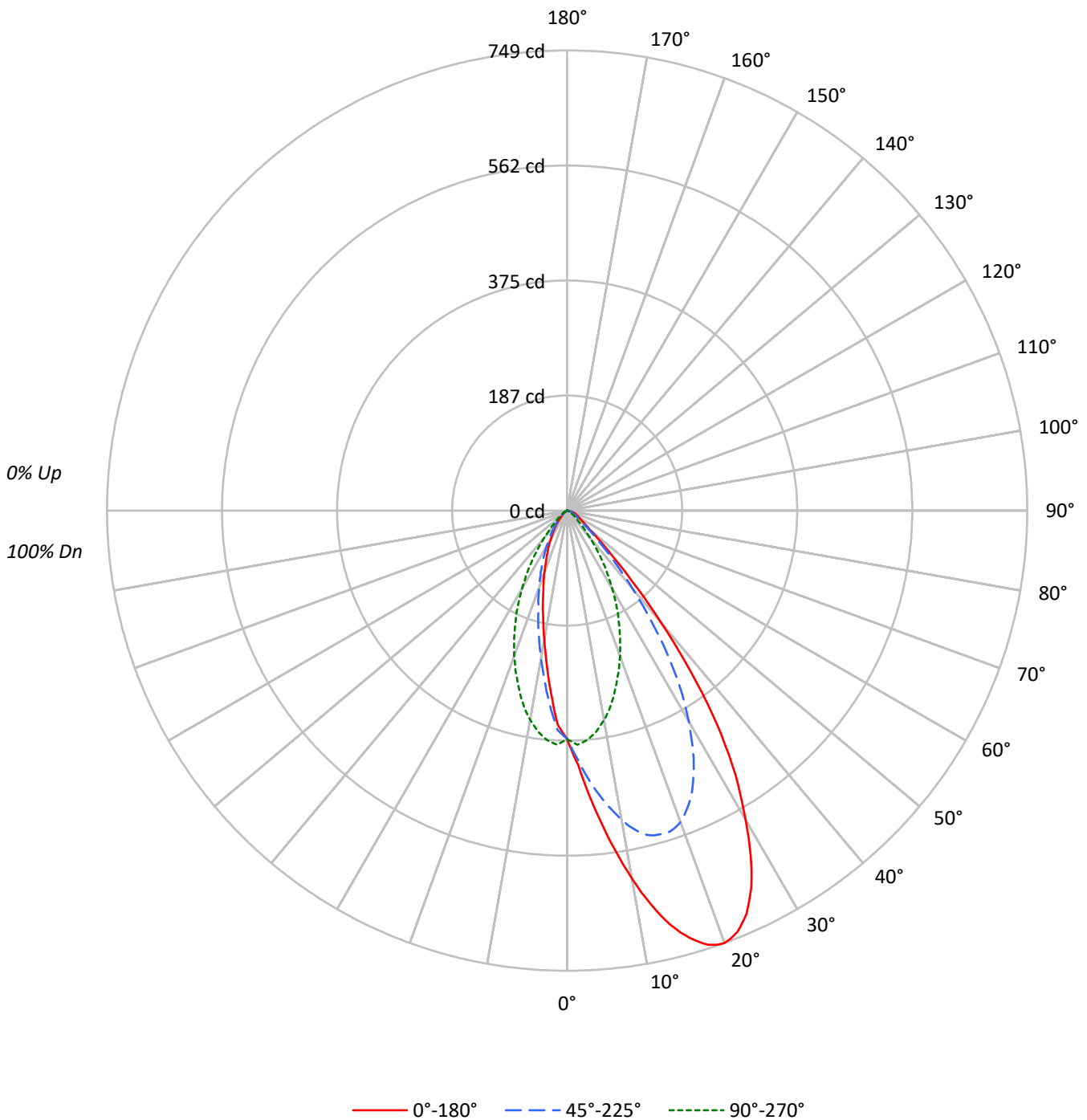
Lumens per Lamp: N/A
Luminaire Lumens: 435.6 lumens
Efficiency: N/A
Efficacy: 30.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.8 / 0.98
Luminous Opening: Circular (Dia: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 14.2
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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94					92				
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86					85				
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79					78				
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73					71				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	67					66				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62					61				
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58					56				
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54					53				
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50					49				
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	51	47					46				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	52192	52192	52192
5°	67494	52814	42094
10°	86714	49335	30467
15°	103200	43849	22099
20°	111890	37650	16279
25°	108595	30784	11784
30°	94135	23773	8346
35°	73052	17030	6048
40°	43345	10534	4067
45°	20204	6172	2143
50°	10458	3930	1310
55°	7463	2789	881
60°	6063	1852	505
65°	5778	797	199
70°	5909	739	1477
75°	4555	325	325
80°	2909	0	485
85°	1932	966	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	8.3
10°-20°	102.6	23.6
20°-30°	133.0	30.5
30°-40°	101.6	23.3
40°-50°	39.1	9.0
50°-60°	13.1	3.0
60°-70°	6.3	1.4
70°-80°	2.9	0.7
80°-90°	0.7	0.2
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°-30°	272.0	62.4
0°-40°	373.5	85.8
0°-60°	425.7	97.7
0°-90°	435.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	435.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	372	372	372	372	372	
5°	479	446	375	319	299	50
15°	710	547	302	182	152	201
25°	701	485	199	96	76	316
35°	426	283	99	44	35	259
45°	102	81	31	16	11	89
55°	30	23	11	4	4	29
65°	17	10	2	1	1	17
75°	8	5	1	1	1	9
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	371.9	371.9	371.9	371.9	371.9	371.9	371.9	371.9	371.9	371.9	371.9
2.5°	415.0	415.0	415.6	413.8	413.2	412.0	411.4	409.0	407.8	406.6	403.6
5°	479.1	478.5	477.3	475.5	470.7	467.7	463.5	457.5	452.2	445.6	437.8
7.5°	544.4	543.2	541.4	536.6	530.0	522.8	513.8	504.3	492.9	480.3	468.9
10°	608.5	606.7	602.5	596.5	586.3	574.9	561.1	545.6	529.4	511.4	492.9
11°	633.0	631.2	625.8	619.2	607.9	594.1	578.5	561.1	542.0	522.2	501.3
12°	655.2	653.4	647.4	639.0	627.0	612.1	594.1	574.3	554.0	531.2	508.4
13°	676.1	674.9	667.8	657.6	645.0	628.8	609.1	587.5	563.5	539.0	512.6
14°	694.7	693.5	686.9	674.9	660.6	641.4	621.0	596.5	570.7	544.4	515.6
15°	710.3	709.1	701.3	688.7	673.1	652.8	630.0	603.7	576.7	547.4	518.0
16°	723.4	721.6	713.3	700.7	682.7	661.8	637.2	609.1	579.7	548.0	516.8
17°	734.2	731.8	723.4	709.7	691.1	668.9	643.2	612.7	583.3	549.8	515.0
18°	743.2	740.8	731.2	717.5	697.1	673.1	646.2	614.5	582.1	548.0	513.2
19°	747.4	743.8	734.8	719.9	699.5	674.3	646.2	613.3	579.7	544.4	508.4
20°	749.2	745.6	736.0	720.5	698.9	673.1	643.8	610.9	576.1	539.6	502.5
21°	745.6	742.6	733.0	716.3	695.3	668.3	638.4	604.3	568.3	531.8	494.7
22°	739.6	736.0	725.8	709.7	687.5	661.8	630.6	595.9	561.1	522.2	485.7
23°	729.4	727.0	715.7	699.5	677.9	651.6	619.8	585.7	549.8	512.0	474.9
24°	718.1	714.5	703.7	686.9	666.0	638.4	607.3	573.1	536.6	500.1	463.5
25°	701.3	698.3	688.1	671.3	649.8	622.2	591.7	557.6	522.2	485.1	448.6
26°	683.3	679.7	669.5	652.2	631.2	605.5	574.9	541.4	506.7	470.1	434.2
27°	661.2	657.6	647.4	632.4	611.5	585.1	555.2	523.4	488.7	453.4	418.6
28°	636.6	633.6	624.0	608.5	587.5	561.7	534.2	504.3	470.1	435.4	401.2
29°	609.1	606.1	597.1	580.9	561.7	537.8	509.6	480.3	448.6	414.4	382.1
30°	580.9	577.9	571.3	554.6	536.6	513.8	488.1	457.5	428.2	395.9	364.1
32.5°	510.2	507.3	500.1	486.9	468.9	448.0	425.2	398.3	371.9	343.2	314.4
35°	426.4	424.0	416.2	404.8	391.1	371.9	350.9	329.4	306.6	283.3	259.9
37.5°	330.0	328.8	322.2	312.6	301.2	286.9	271.3	254.5	237.8	221.0	203.6
40°	236.6	236.0	233.0	227.6	218.0	209.6	198.2	188.6	176.7	164.7	152.7
42.5°	158.1	157.5	156.3	152.1	147.9	143.7	137.7	130.6	124.6	117.4	109.6
45°	101.8	101.2	100.0	98.8	97.0	94.6	91.6	88.6	85.6	80.8	76.7
47.5°	68.3	67.7	67.1	65.9	65.3	63.5	61.1	59.9	58.1	55.7	53.3
50°	47.9	48.5	47.9	47.3	46.1	45.5	43.7	42.5	41.3	39.5	37.7
52.5°	37.7	38.3	37.1	37.1	35.3	34.1	33.5	32.3	31.1	30.5	27.5
55°	30.5	30.5	29.9	29.3	28.7	28.1	26.9	25.8	24.6	23.4	22.2
57.5°	25.2	25.2	24.6	24.0	24.6	23.4	21.6	21.0	21.0	18.0	18.0
60°	21.6	22.2	21.6	21.6	20.4	19.8	19.2	18.0	16.8	15.6	14.4
62.5°	19.8	19.8	19.2	19.2	19.2	19.2	16.2	16.2	14.4	13.2	12.0
65°	17.4	16.8	16.2	16.2	15.0	14.4	13.2	12.6	12.0	10.2	9.0
67.5°	15.0	15.0	15.0	14.4	13.2	13.2	12.0	10.2	9.6	9.0	8.4
70°	14.4	14.4	13.2	13.2	12.0	10.8	10.8	9.6	8.4	8.4	6.6
72.5°	10.8	10.8	10.2	9.6	9.6	8.4	7.2	6.6	6.6	5.4	4.8
75°	8.4	8.4	8.4	8.4	6.6	6.6	6.0	6.0	4.8	5.4	3.0
77.5°	6.0	6.0	6.0	5.4	4.8	4.8	4.2	3.6	3.6	3.0	3.0
80°	3.6	3.6	4.2	3.0	3.6	4.2	3.0	3.0	3.0	1.8	2.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	1.8	2.4	1.8	2.4	1.8	1.8	1.8	1.8	1.2	1.2	0.6
85°	1.2	1.8	1.8	1.8	1.2	0.6	1.2	1.2	1.2	0.6	0.6
87.5°	0.6	0.0	0.0	0.0	0.6	0.6	0.0	0.6	0.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
0°	371.9	371.9	371.9	371.9	371.9	371.9	371.9	371.9	371.9	371.9	371.9
2.5°	400.7	398.9	396.5	392.9	390.5	387.5	383.9	381.5	369.5	357.5	352.1
5°	430.6	422.8	415.6	407.2	398.9	391.7	383.9	374.9	343.2	319.2	303.0
7.5°	455.7	442.0	428.2	414.4	401.8	388.7	374.9	362.9	313.8	280.3	260.5
10°	474.3	454.5	434.8	416.2	397.7	380.3	362.9	346.2	284.5	243.7	221.6
11°	480.3	458.1	436.0	415.0	395.3	374.9	355.7	338.4	273.1	231.2	208.4
12°	483.9	459.9	435.4	412.6	390.5	370.7	349.1	330.6	262.3	218.0	194.0
13°	486.3	459.9	434.2	409.0	385.7	362.9	342.0	321.0	250.3	205.4	182.1
14°	488.1	459.9	432.4	406.0	380.3	355.7	333.6	312.6	238.4	194.0	170.7
15°	486.9	456.9	427.6	399.5	372.5	347.9	323.4	301.8	227.0	182.1	159.3
16°	485.7	454.0	422.8	392.3	364.7	338.4	313.8	291.7	214.4	169.5	147.9
17°	481.5	448.6	416.2	385.7	356.3	328.8	303.6	281.5	203.6	159.9	138.3
18°	478.5	443.8	410.2	378.5	348.5	321.0	295.2	272.5	194.6	152.1	130.0
19°	472.5	436.6	403.6	370.1	339.6	310.8	285.7	261.1	183.9	141.9	122.8
20°	465.9	430.0	394.7	361.7	330.6	301.2	276.1	252.1	174.3	133.6	113.8
21°	456.9	419.8	385.1	351.5	320.4	291.1	264.7	240.7	165.3	125.2	106.6
22°	446.8	410.2	374.9	341.4	309.0	280.9	253.3	230.0	155.7	116.8	98.8
23°	436.6	398.9	363.5	330.0	298.8	270.1	243.1	220.4	146.7	110.2	92.8
24°	425.8	387.5	352.1	318.6	287.5	258.7	233.6	209.0	138.3	102.4	86.2
25°	411.4	374.3	339.0	306.0	275.5	246.7	221.6	198.8	129.4	95.8	80.2
26°	397.7	361.7	326.4	294.6	264.1	236.0	211.4	189.2	121.6	89.8	75.5
27°	382.7	346.8	313.2	282.1	252.1	225.2	200.6	178.5	113.2	83.2	70.1
28°	365.9	331.8	299.4	269.5	239.6	213.2	189.8	168.3	106.0	77.9	64.7
29°	347.9	315.6	283.3	254.5	225.8	200.0	177.9	156.3	97.0	70.7	58.7
30°	331.8	300.6	270.1	240.2	213.2	188.0	165.3	146.7	89.8	65.3	55.1
32.5°	286.3	258.1	230.0	204.8	180.9	158.1	138.9	122.2	74.3	54.5	46.7
35°	236.6	213.2	189.2	167.7	147.9	130.6	113.8	99.4	61.1	44.3	37.7
37.5°	185.1	167.1	149.7	133.0	116.8	101.8	88.6	77.3	46.7	34.7	30.5
40°	139.5	127.0	114.4	101.2	88.6	77.3	67.7	57.5	35.9	27.5	24.6
42.5°	101.2	92.2	83.2	74.3	64.7	56.3	48.5	42.5	27.5	21.0	17.4
45°	71.3	65.9	59.3	52.7	45.5	39.5	35.3	31.1	21.6	15.6	12.0
47.5°	50.3	47.3	42.5	37.1	32.3	29.3	25.8	23.4	17.4	12.0	8.4
50°	35.9	32.9	30.5	26.4	24.6	22.2	20.4	18.0	12.6	9.0	6.6
52.5°	26.9	24.6	23.4	19.8	18.6	17.4	15.6	14.4	9.0	6.0	4.2
55°	20.4	19.2	17.4	15.6	14.4	13.2	12.0	11.4	6.6	3.6	3.0
57.5°	16.2	14.4	13.8	12.0	10.8	9.6	10.2	8.4	6.0	2.4	1.8
60°	13.8	12.6	10.2	9.6	8.4	7.8	7.2	6.6	3.6	2.4	1.8
62.5°	10.8	10.2	8.4	7.8	7.2	6.0	6.0	5.4	2.4	1.8	1.8
65°	7.8	7.2	6.0	5.4	5.4	4.2	3.6	2.4	1.2	0.6	0.0
67.5°	7.2	5.4	6.0	4.8	3.6	3.0	2.4	3.0	1.2	1.2	1.2
70°	6.0	5.4	4.8	4.8	3.0	3.0	2.4	1.8	1.2	1.2	1.2
72.5°	4.2	3.6	3.0	1.8	1.8	1.2	1.8	0.6	0.6	0.6	0.6
75°	3.0	2.4	3.0	2.4	1.8	1.2	3.0	0.6	0.6	0.6	0.6
77.5°	2.4	1.8	1.2	1.2	0.6	1.2	0.6	0.6	0.6	0.0	0.6
80°	3.6	2.4	1.2	0.6	0.6	1.8	2.4	0.0	2.4	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	1.2	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.0	0.6	0.6	0.6	1.2	1.8	0.6	1.2	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	180°
0°	371.9
2.5°	349.1
5°	298.8
7.5°	253.3
10°	213.8
11°	200.0
12°	186.9
13°	174.3
14°	164.1
15°	152.1
16°	141.3
17°	131.8
18°	124.0
19°	116.8
20°	109.0
21°	100.6
22°	93.4
23°	87.4
24°	82.0
25°	76.1
26°	71.3
27°	66.5
28°	61.7
29°	55.7
30°	51.5
32.5°	43.1
35°	35.3
37.5°	28.7
40°	22.2
42.5°	16.2
45°	10.8
47.5°	9.6
50°	6.0
52.5°	5.4
55°	3.6
57.5°	1.2
60°	1.8
62.5°	1.2
65°	0.6
67.5°	0.6
70°	3.6
72.5°	0.6
75°	0.6
77.5°	0.0
80°	0.6



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CANDELA DISTRIBUTION (continued):

	180°
82.5°	0.0
85°	0.6
87.5°	0.0
90°	0.0

(END OF REPORT)