

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 253p140

Luminaire Tested: **1270-26-CFL/3/27**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253p140
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-26-CFL/3/27
Description: SHAPER 26 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: THREE 24 WATT T4 COMPACT FLUORESCENT LAMPS
(3)FT24DL/830 - 1800 LUMENS - 24 WATTS
Ballast/Driver: -

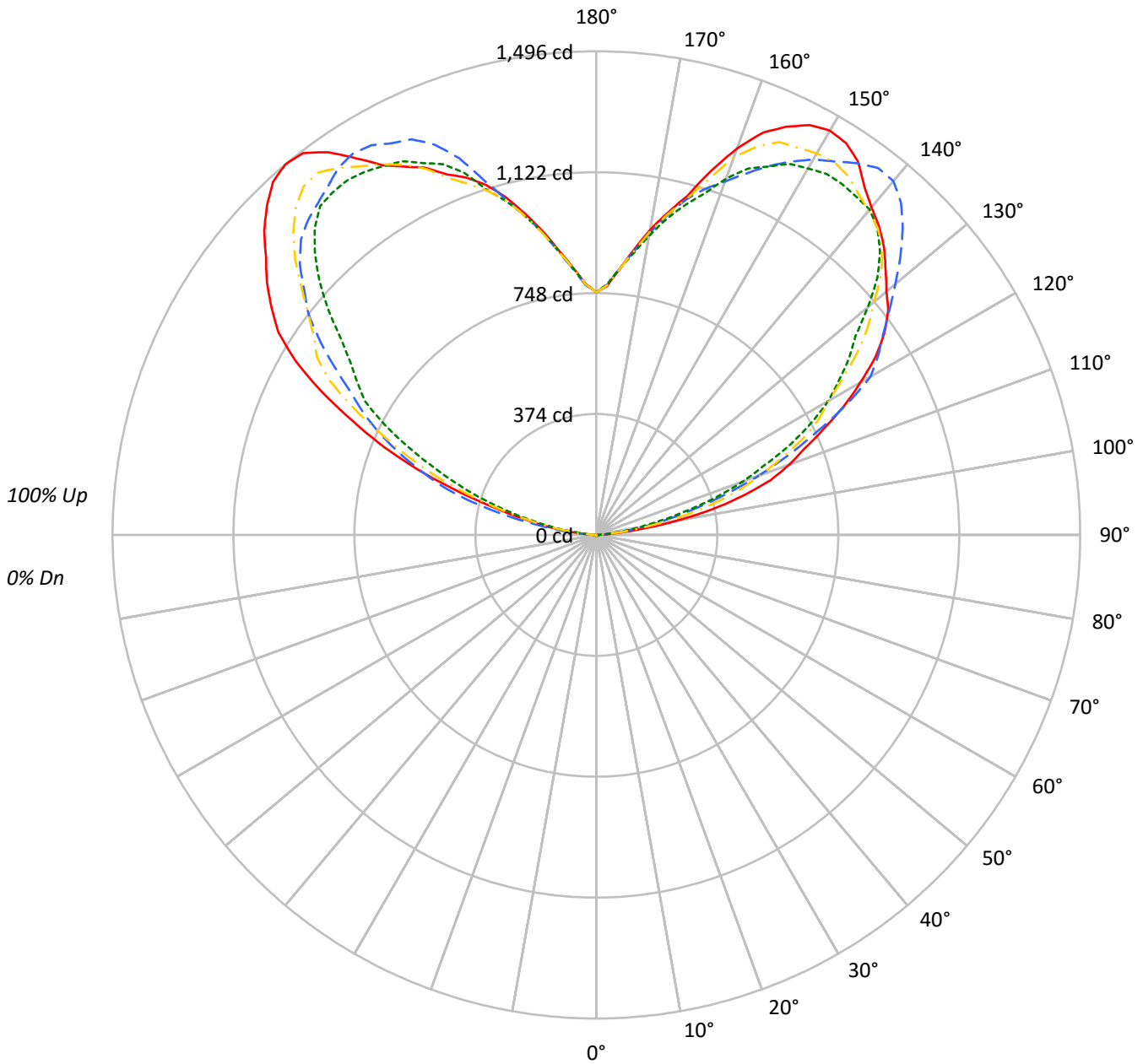
Summary

Lumens per Lamp: 1800 (3 lamps)
Luminaire Lumens: 4938.7 lumens
Efficiency: 91.5%
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 2.17' x H: 0')
CIE Type: Indirect

Input Watts (W): 75
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



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	87	87	87	87	74	74	74	74	51	51	51	29	29	29	9	9	9	0
1	79	76	72	69	68	65	62	60	44	43	41	25	25	24	8	8	8	0
2	72	66	61	56	61	56	52	49	39	36	34	22	21	20	7	7	7	0
3	66	58	52	47	56	50	45	41	34	31	28	20	18	17	6	6	6	0
4	60	51	44	39	51	44	38	34	30	27	24	17	16	14	6	5	5	0
5	55	45	38	33	46	39	33	29	27	23	20	15	14	12	5	4	4	0
6	50	40	33	28	43	34	29	25	24	20	18	14	12	10	4	4	3	0
7	46	36	29	25	39	31	25	21	21	18	15	12	10	9	4	3	3	0
8	43	32	26	21	36	28	22	19	19	16	13	11	9	8	4	3	3	0
9	39	29	23	19	34	25	20	16	17	14	12	10	8	7	3	3	2	0
10	37	26	20	16	31	23	18	14	16	13	10	9	7	6	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	0	0	0	0
5°	9	9	9	9
10°	0	0	3	6
15°	3	0	3	0
20°	3	3	0	3
25°	3	0	3	0
30°	0	0	3	3
35°	0	0	0	0
40°	0	0	0	0
45°	0	0	0	0
50°	0	0	0	0
55°	0	0	0	0
60°	0	0	0	0
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.2	0.0	0.0
10°-20°	0.2	0.0	0.0
20°-30°	0.4	0.0	0.0
30°-40°	0.4	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.1	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.3	0.0	0.0
90°-100°	64.0	1.3	1.2
100°-110°	370.3	7.5	6.9
110°-120°	720.2	14.6	13.3
120°-130°	934.9	18.9	17.3
130°-140°	995.6	20.2	18.4
140°-150°	863.3	17.5	16.0
150°-160°	598.6	12.1	11.1
160°-170°	307.8	6.2	5.7
170°-180°	82.6	1.7	1.5
0°-30°	0.8	0.0	0.0
0°-40°	1.2	0.0	0.0
0°-60°	1.2	0.0	0.0
0°-90°	1.6	0.0	0.0
90°-120°	1154.4	23.4	21.4
90°-150°	3948.2	79.9	73.1
90°-180°	4937.0	100.0	91.4
0°-180°	4938.7	100.0	91.5

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	3	3	3	3	3	0
15°	1	0	1	0	1	0
25°	1	0	1	0	1	1
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	3	0	3	0	3	3
95°	58	30	46	20	58	91
105°	469	290	326	283	469	486
115°	775	662	828	640	775	773
125°	1087	954	1226	927	1087	963
135°	1258	1240	1440	1230	1258	969
145°	1410	1325	1445	1340	1410	876
155°	1393	1257	1253	1269	1393	642
165°	1085	1056	1081	1067	1085	317
175°	825	826	829	828	825	83
180°	750	750	750	750	750	



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CANDELA DISTRIBUTION (FULL):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	3	1	3	2	2	1	2	2	3	1	3
5°	3	1	3	2	3	3	3	3	3	1	3
7.5°	3	2	2	2	2	3	2	1	3	2	2
10°	0	1	2	2	1	1	0	0	0	1	2
12.5°	3	1	2	1	1	1	1	0	3	1	2
15°	1	1	0	0	1	1	0	0	1	1	0
17.5°	0	1	1	1	0	0	0	0	0	1	1
20°	1	2	1	1	0	1	1	0	1	2	1
22.5°	1	1	1	1	2	0	0	0	1	1	1
25°	1	2	0	0	1	1	0	1	1	2	0
27.5°	3	1	0	1	2	1	1	1	3	1	0
30°	0	0	1	0	1	0	0	0	0	0	1
32.5°	3	1	2	2	2	0	3	3	3	1	2
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	1	1	2	0	0	1	1	0	1	1
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	1	0	0	1	0	0	0	0	1	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	1	0	0	0	0	0	0
90°	3	0	0	1	3	1	0	0	3	0	0
92.5°	14	7	4	11	12	8	7	11	14	7	4
95°	58	32	20	38	46	33	30	49	58	32	20
97.5°	145	85	68	90	101	83	79	111	145	85	68
100°	250	159	131	156	160	143	131	180	250	159	131
102.5°	369	252	200	232	231	219	203	273	369	252	200
105°	469	341	283	314	326	303	290	382	469	341	283
107.5°	565	430	368	412	448	401	389	477	565	430	368
110°	634	509	453	514	582	503	481	555	634	509	453



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CANDELA DISTRIBUTION (continued):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	696	592	542	616	710	599	562	644	696	592	542
115°	775	681	640	724	828	694	662	723	775	681	640
117.5°	863	745	737	844	955	805	748	791	863	745	737
120°	942	792	825	947	1072	910	828	850	942	792	825
122.5°	1023	864	875	989	1165	978	889	933	1023	864	875
125°	1087	952	927	1034	1226	1011	954	1026	1087	952	927
127.5°	1137	1033	994	1094	1284	1067	1009	1117	1137	1033	994
130°	1171	1104	1081	1164	1333	1142	1095	1182	1171	1104	1081
132.5°	1213	1188	1161	1236	1393	1220	1179	1254	1213	1188	1161
135°	1258	1249	1230	1306	1440	1287	1240	1303	1258	1249	1230
137.5°	1294	1285	1289	1365	1480	1340	1286	1329	1294	1285	1289
140°	1323	1304	1328	1406	1496	1378	1314	1345	1323	1304	1328
142.5°	1360	1321	1337	1411	1489	1388	1319	1362	1360	1321	1337
145°	1410	1338	1340	1390	1445	1366	1325	1381	1410	1338	1340
147.5°	1437	1344	1332	1366	1381	1342	1324	1387	1437	1344	1332
150°	1444	1336	1317	1347	1320	1325	1309	1374	1444	1336	1317
152.5°	1429	1323	1303	1308	1284	1292	1294	1345	1429	1323	1303
155°	1393	1323	1269	1260	1253	1249	1257	1336	1393	1323	1269
157.5°	1347	1286	1241	1211	1207	1191	1227	1293	1347	1286	1241
160°	1272	1233	1191	1159	1176	1147	1172	1229	1272	1233	1191
162.5°	1181	1142	1116	1119	1135	1109	1106	1137	1181	1142	1116
165°	1085	1073	1067	1072	1081	1064	1056	1067	1085	1073	1067
167.5°	1021	1013	1008	1010	1017	1005	1000	1006	1021	1013	1008
170°	958	949	948	946	953	942	939	942	958	949	948
172.5°	890	883	884	883	887	881	879	878	890	883	884
175°	825	826	828	826	829	827	826	825	825	826	828
177.5°	771	774	776	775	778	776	777	775	771	774	776
180°	750	750	750	750	750	750	750	750	750	750	750



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	2	2	1	2	2	3	1	3	2	2	1
5°	2	3	3	3	3	3	1	3	2	3	3
7.5°	2	2	3	2	1	3	2	2	2	2	3
10°	2	1	1	0	0	0	1	2	2	1	1
12.5°	1	1	1	1	0	3	1	2	1	1	1
15°	0	1	1	0	0	1	1	0	0	1	1
17.5°	1	0	0	0	0	0	1	1	1	0	0
20°	1	0	1	1	0	1	2	1	1	0	1
22.5°	1	2	0	0	0	1	1	1	1	2	0
25°	0	1	1	0	1	1	2	0	0	1	1
27.5°	1	2	1	1	1	3	1	0	1	2	1
30°	0	1	0	0	0	0	0	1	0	1	0
32.5°	2	2	0	3	3	3	1	2	2	2	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	2	0	0	1	1	0	1	1	2	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	1	0	0	0	0	1	0	0	1	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	1	0	0	0	0	0	0	0	1	0
90°	1	3	1	0	0	3	0	0	1	3	1
92.5°	11	12	8	7	11	14	7	4	11	12	8
95°	38	46	33	30	49	58	32	20	38	46	33
97.5°	90	101	83	79	111	145	85	68	90	101	83
100°	156	160	143	131	180	250	159	131	156	160	143
102.5°	232	231	219	203	273	369	252	200	232	231	219
105°	314	326	303	290	382	469	341	283	314	326	303
107.5°	412	448	401	389	477	565	430	368	412	448	401
110°	514	582	503	481	555	634	509	453	514	582	503



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	616	710	599	562	644	696	592	542	616	710	599
115°	724	828	694	662	723	775	681	640	724	828	694
117.5°	844	955	805	748	791	863	745	737	844	955	805
120°	947	1072	910	828	850	942	792	825	947	1072	910
122.5°	989	1165	978	889	933	1023	864	875	989	1165	978
125°	1034	1226	1011	954	1026	1087	952	927	1034	1226	1011
127.5°	1094	1284	1067	1009	1117	1137	1033	994	1094	1284	1067
130°	1164	1333	1142	1095	1182	1171	1104	1081	1164	1333	1142
132.5°	1236	1393	1220	1179	1254	1213	1188	1161	1236	1393	1220
135°	1306	1440	1287	1240	1303	1258	1249	1230	1306	1440	1287
137.5°	1365	1480	1340	1286	1329	1294	1285	1289	1365	1480	1340
140°	1406	1496	1378	1314	1345	1323	1304	1328	1406	1496	1378
142.5°	1411	1489	1388	1319	1362	1360	1321	1337	1411	1489	1388
145°	1390	1445	1366	1325	1381	1410	1338	1340	1390	1445	1366
147.5°	1366	1381	1342	1324	1387	1437	1344	1332	1366	1381	1342
150°	1347	1320	1325	1309	1374	1444	1336	1317	1347	1320	1325
152.5°	1308	1284	1292	1294	1345	1429	1323	1303	1308	1284	1292
155°	1260	1253	1249	1257	1336	1393	1323	1269	1260	1253	1249
157.5°	1211	1207	1191	1227	1293	1347	1286	1241	1211	1207	1191
160°	1159	1176	1147	1172	1229	1272	1233	1191	1159	1176	1147
162.5°	1119	1135	1109	1106	1137	1181	1142	1116	1119	1135	1109
165°	1072	1081	1064	1056	1067	1085	1073	1067	1072	1081	1064
167.5°	1010	1017	1005	1000	1006	1021	1013	1008	1010	1017	1005
170°	946	953	942	939	942	958	949	948	946	953	942
172.5°	883	887	881	879	878	890	883	884	883	887	881
175°	826	829	827	826	825	825	826	828	826	829	827
177.5°	775	778	776	777	775	771	774	776	775	778	776
180°	750	750	750	750	750	750	750	750	750	750	750



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CANDELA DISTRIBUTION (continued):

	330°	340°	360°
0°	0	0	0
2.5°	2	2	3
5°	3	3	3
7.5°	2	1	3
10°	0	0	0
12.5°	1	0	3
15°	0	0	1
17.5°	0	0	0
20°	1	0	1
22.5°	0	0	1
25°	0	1	1
27.5°	1	1	3
30°	0	0	0
32.5°	3	3	3
35°	0	0	0
37.5°	1	1	0
40°	0	0	0
42.5°	0	0	0
45°	0	0	0
47.5°	0	0	0
50°	0	0	0
52.5°	0	0	0
55°	0	0	0
57.5°	0	0	0
60°	0	0	0
62.5°	0	0	0
65°	0	0	0
67.5°	0	0	0
70°	0	0	0
72.5°	0	0	0
75°	0	0	0
77.5°	0	0	0
80°	0	0	0
82.5°	0	0	0
85°	0	0	0
87.5°	0	0	0
90°	0	0	3
92.5°	7	11	14
95°	30	49	58
97.5°	79	111	145
100°	131	180	250
102.5°	203	273	369
105°	290	382	469
107.5°	389	477	565
110°	481	555	634



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CATALOG NUMBER: 1270-26-CFL/3/27

CANDELA DISTRIBUTION (continued):

	330°	340°	360°
112.5°	562	644	696
115°	662	723	775
117.5°	748	791	863
120°	828	850	942
122.5°	889	933	1023
125°	954	1026	1087
127.5°	1009	1117	1137
130°	1095	1182	1171
132.5°	1179	1254	1213
135°	1240	1303	1258
137.5°	1286	1329	1294
140°	1314	1345	1323
142.5°	1319	1362	1360
145°	1325	1381	1410
147.5°	1324	1387	1437
150°	1309	1374	1444
152.5°	1294	1345	1429
155°	1257	1336	1393
157.5°	1227	1293	1347
160°	1172	1229	1272
162.5°	1106	1137	1181
165°	1056	1067	1085
167.5°	1000	1006	1021
170°	939	942	958
172.5°	879	878	890
175°	826	825	825
177.5°	777	775	771
180°	750	750	750

(END OF REPORT)