

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: A1706983C001(120V)

Luminaire Tested: **22RTC3435**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: A1706983C001(120V)
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA A1706983C001
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RTC3435
Description:
Light Source: -
Ballast/Driver: -

Summary

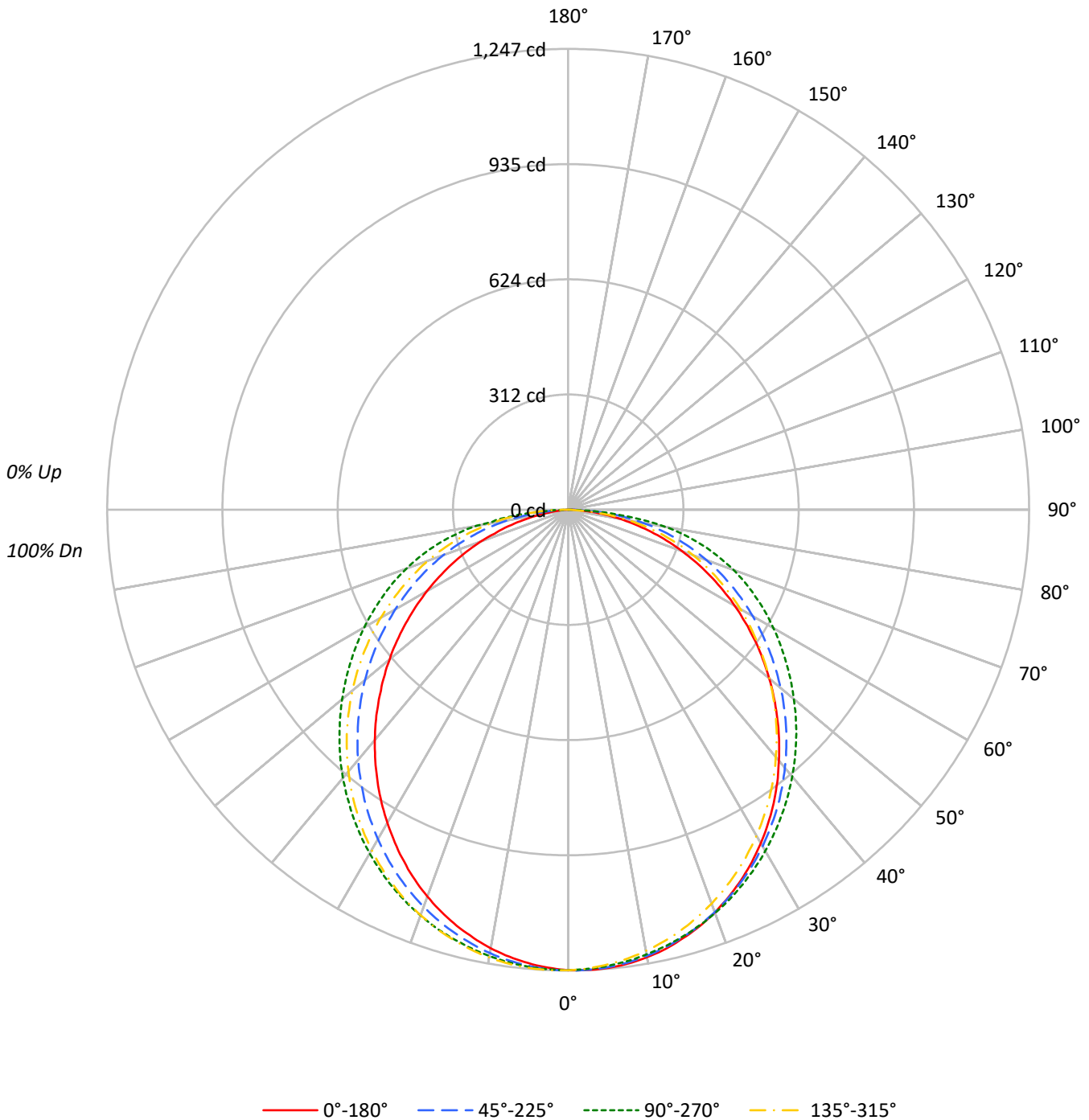
Lumens per Lamp: 3638.116 (1 lamp)
Luminaire Lumens: 3638.1 lumens
Efficiency: 100.0%
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.628
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	48
5	75	62	53	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	50	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4005	4005	4005	4005
5°	4015	3998	3974	4006
10°	4013	3988	3934	4003
15°	3995	3980	3878	4001
20°	3968	3973	3809	3996
25°	3923	3966	3724	3992
30°	3867	3957	3631	3985
35°	3802	3953	3528	3981
40°	3721	3955	3415	3980
45°	3637	3965	3292	3976
50°	3549	3984	3153	3991
55°	3456	4034	3006	4026
60°	3342	4123	2838	4096
65°	3224	4256	2634	4205
70°	3079	4473	2367	4378
75°	2887	4713	1966	4591
80°	2623	4951	1416	4688
85°	2242	4267	638	3957



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	117.8	3.2	3.2	0°	1246	1246	1246	1246	1246	
10°-20°	336.2	9.2	9.2	5°	1244	1239	1232	1242	1244	118
20°-30°	507.0	13.9	13.9	15°	1200	1196	1165	1202	1200	339
30°-40°	608.6	16.7	16.7	25°	1106	1118	1050	1126	1106	509
40°-50°	631.6	17.4	17.4	35°	969	1008	899	1014	969	606
50°-60°	579.7	15.9	15.9	45°	800	872	724	875	800	617
60°-70°	465.8	12.8	12.8	55°	617	720	536	718	617	551
70°-80°	300.7	8.3	8.3	65°	424	560	346	553	424	420
80°-90°	90.8	2.5	2.5	75°	232	380	158	370	232	246
90°-100°	0.0	0.0	0.0	85°	61	116	17	107	61	71
100°-110°	0.0	0.0	0.0	90°	9	0	0	0	9	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	960.9	26.4	26.4							
0°-40°	1569.5	43.1	43.1							
0°-60°	2780.8	76.4	76.4							
0°-90°	3638.1	100.0	100.0							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	3638.1	100.0	100.0							



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1
1°	1246.4	1248.1	1246.6	1245.2	1244.6	1245.2	1244.3	1246.8	1246.5	1245.7	1246.3
2°	1246.7	1247.6	1245.7	1244.4	1243.0	1243.5	1241.7	1245.2	1245.6	1245.2	1246.5
3°	1246.5	1247.2	1245.0	1242.8	1241.1	1240.8	1239.1	1242.9	1244.4	1244.4	1245.9
4°	1245.9	1246.1	1243.3	1241.3	1238.8	1238.2	1235.9	1240.5	1242.4	1243.0	1245.3
5°	1244.5	1244.4	1241.4	1239.1	1235.5	1234.2	1231.7	1237.2	1240.4	1241.5	1244.1
6°	1242.7	1241.8	1238.8	1236.3	1232.2	1230.8	1227.6	1233.7	1237.8	1239.3	1242.4
7°	1240.3	1239.5	1235.8	1233.5	1228.5	1226.6	1222.6	1229.7	1234.6	1236.7	1240.6
8°	1237.3	1235.8	1232.5	1230.1	1223.7	1221.7	1217.6	1225.0	1231.0	1233.8	1237.7
9°	1233.7	1232.2	1228.7	1226.2	1219.5	1216.1	1211.1	1219.9	1227.0	1230.3	1234.6
10°	1229.7	1227.4	1224.7	1221.8	1213.8	1210.4	1205.4	1214.4	1222.5	1226.5	1231.0
11°	1225.0	1222.9	1219.6	1217.3	1208.8	1203.8	1197.8	1208.3	1217.5	1222.4	1227.3
12°	1220.1	1217.2	1214.6	1212.5	1202.2	1197.3	1190.6	1201.0	1212.2	1217.9	1222.8
13°	1214.2	1211.4	1209.2	1207.5	1196.5	1189.7	1182.2	1193.9	1205.9	1213.0	1217.5
14°	1207.8	1205.0	1203.4	1201.7	1189.5	1182.2	1174.3	1186.6	1200.4	1207.3	1212.9
15°	1200.5	1198.1	1197.3	1196.2	1182.6	1173.9	1165.3	1178.4	1193.2	1202.3	1206.8
16°	1193.9	1190.9	1190.7	1189.9	1175.3	1165.4	1155.9	1169.8	1186.9	1195.9	1201.4
17°	1185.7	1183.2	1183.8	1183.4	1167.6	1155.4	1146.2	1160.9	1179.2	1190.4	1194.7
18°	1177.8	1174.8	1176.6	1176.5	1159.5	1146.7	1135.7	1151.6	1171.6	1183.2	1187.8
19°	1168.6	1166.2	1168.8	1169.4	1151.0	1135.7	1125.1	1141.7	1163.8	1175.9	1180.7
20°	1160.0	1157.1	1160.7	1161.5	1142.4	1126.3	1113.5	1131.4	1155.3	1168.4	1173.3
21°	1149.6	1147.3	1152.4	1153.5	1133.1	1114.8	1102.2	1120.6	1146.6	1160.7	1165.4
22°	1139.4	1137.6	1143.4	1145.3	1123.7	1104.6	1090.2	1109.6	1137.4	1152.4	1157.0
23°	1128.8	1127.2	1134.0	1136.6	1113.8	1092.3	1077.6	1098.3	1127.7	1143.8	1148.4
24°	1117.6	1116.4	1124.6	1127.0	1103.5	1080.3	1064.7	1086.3	1117.9	1134.9	1139.0
25°	1106.2	1105.3	1113.8	1118.2	1093.1	1068.2	1050.2	1074.5	1107.5	1125.5	1129.7
26°	1094.0	1093.7	1104.5	1107.7	1082.2	1055.6	1037.4	1061.8	1097.0	1116.0	1119.6
27°	1081.6	1081.9	1093.0	1098.8	1071.2	1042.8	1022.6	1048.9	1086.0	1105.9	1109.4
28°	1068.9	1069.7	1082.9	1087.6	1058.6	1029.6	1008.1	1034.5	1074.7	1095.4	1098.9
29°	1055.6	1057.1	1070.7	1077.9	1047.8	1015.8	993.4	1022.0	1063.0	1084.8	1087.8
30°	1042.0	1044.0	1060.2	1066.2	1034.8	1002.0	978.4	1006.9	1051.1	1073.8	1076.6
31°	1028.3	1029.6	1047.3	1055.3	1023.6	988.0	963.2	993.9	1038.7	1062.7	1063.9
32°	1013.7	1017.1	1035.1	1043.6	1009.7	973.4	947.5	978.0	1026.1	1051.1	1053.0
33°	999.1	1001.8	1022.6	1031.8	996.8	958.7	931.5	964.7	1013.3	1039.1	1039.4
34°	984.1	988.8	1009.9	1019.8	983.7	943.8	915.4	948.0	999.9	1026.9	1028.0
35°	968.9	973.1	996.8	1007.5	970.5	928.5	899.1	934.2	986.7	1014.5	1014.0
36°	953.4	959.6	983.6	995.2	956.8	913.1	882.4	917.1	971.6	1001.9	1000.8
37°	937.1	943.2	969.9	982.4	943.0	897.3	865.6	901.3	959.1	987.6	987.3
38°	921.4	929.1	956.3	969.4	928.9	881.2	848.5	885.3	943.6	975.6	973.6
39°	903.3	911.9	942.4	956.4	914.5	865.1	831.2	869.0	930.5	961.1	959.6
40°	886.8	896.1	928.0	942.7	900.0	847.2	813.8	852.6	914.6	948.5	945.4
41°	869.8	880.0	913.6	929.1	885.2	832.2	796.1	835.7	900.9	933.3	931.0
42°	852.8	863.7	898.9	915.3	870.5	814.1	778.5	818.9	884.5	920.2	916.2
43°	835.6	847.3	883.9	901.0	855.4	799.0	760.6	801.9	869.1	904.6	901.5
44°	817.9	830.5	868.9	886.7	840.0	780.1	740.9	784.3	853.6	890.0	886.1



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	800.2	813.5	853.6	872.2	824.8	764.6	724.3	767.1	837.9	874.8	870.7
46°	782.5	796.6	838.0	857.8	809.2	745.8	704.3	749.6	822.0	859.9	855.2
47°	764.5	779.3	822.7	841.7	793.4	728.5	687.7	731.9	806.0	844.7	839.3
48°	746.5	762.0	805.3	828.2	777.5	711.0	667.5	714.0	789.8	829.2	823.4
49°	728.1	744.6	790.7	811.8	760.0	693.4	650.7	696.2	773.4	813.8	807.3
50°	709.7	727.0	773.2	796.7	745.5	675.6	630.6	678.1	757.0	798.1	790.7
51°	691.3	707.8	757.2	781.4	727.9	657.9	613.4	660.1	740.5	782.3	774.5
52°	672.8	691.6	741.0	766.2	713.2	640.2	593.0	642.1	723.7	766.6	757.9
53°	654.0	672.1	724.6	750.9	695.4	622.2	574.2	622.1	707.1	750.7	741.3
54°	635.4	655.7	708.1	735.4	680.4	604.4	555.3	605.7	690.1	734.6	723.0
55°	616.7	636.2	691.5	719.8	662.4	586.4	536.5	585.6	673.3	718.5	707.6
56°	595.8	618.0	674.8	703.9	646.0	568.3	517.6	569.0	656.2	702.3	689.1
57°	578.8	599.9	658.2	688.6	629.4	550.4	498.7	548.9	639.2	686.0	673.5
58°	558.0	581.7	641.5	672.9	612.8	532.4	479.6	532.3	622.0	669.8	654.8
59°	540.7	563.4	624.9	657.2	596.1	514.2	460.4	512.1	603.4	653.5	639.3
60°	519.9	545.1	607.9	641.4	579.3	496.1	441.5	493.6	587.6	637.2	620.3
61°	502.4	526.9	591.1	625.5	562.7	477.9	422.6	475.2	568.7	620.8	603.1
62°	481.6	508.5	574.2	609.7	545.7	459.7	403.6	456.7	551.5	603.0	585.7
63°	462.3	490.3	557.1	593.4	529.0	440.0	384.4	438.1	534.3	586.2	568.2
64°	443.2	471.8	539.9	577.5	511.9	421.8	365.4	419.7	516.8	569.6	551.0
65°	423.9	453.3	522.9	559.6	494.7	403.6	346.3	401.1	499.3	552.9	533.4
66°	404.6	434.9	504.1	544.7	477.4	385.5	327.4	382.6	481.6	536.0	515.8
67°	385.4	416.6	488.2	526.5	459.9	367.3	308.5	364.0	463.9	519.0	498.1
68°	366.0	398.1	469.1	511.1	442.3	349.2	289.5	345.5	446.1	501.4	480.3
69°	346.9	379.5	453.0	492.1	424.4	330.9	269.0	327.1	428.1	483.9	462.4
70°	327.6	361.2	433.3	476.0	406.3	312.8	251.9	308.6	409.9	465.9	444.3
71°	308.5	342.6	417.0	456.2	388.0	294.6	231.6	288.5	391.5	447.5	426.2
72°	289.4	322.6	396.9	437.8	369.4	276.5	208.9	271.7	372.8	428.9	407.7
73°	270.2	306.0	379.6	418.9	350.4	258.2	194.1	251.7	353.8	409.7	389.0
74°	251.4	285.9	359.1	399.5	329.4	240.1	177.7	235.1	334.5	389.9	369.9
75°	232.5	269.2	339.7	379.5	311.8	222.0	158.3	209.4	315.1	369.7	350.6
76°	213.9	249.2	320.3	359.2	290.1	204.0	142.5	197.7	295.2	348.3	331.0
77°	195.5	232.3	300.5	337.5	269.7	186.2	123.9	179.8	272.6	326.5	309.3
78°	177.3	212.6	280.2	315.7	248.4	168.5	107.6	160.3	253.4	302.4	290.7
79°	159.3	196.0	259.2	292.9	221.9	151.0	91.7	142.8	229.8	281.7	267.8
80°	141.7	176.4	237.6	267.5	202.7	133.7	76.5	125.5	209.7	253.3	246.2
81°	123.4	159.1	207.8	238.2	177.4	115.6	63.1	109.5	183.3	207.6	224.7
82°	107.1	140.4	189.6	207.0	150.0	99.4	49.2	92.0	157.0	196.0	202.4
83°	91.4	123.5	161.8	177.3	124.3	82.8	36.6	75.8	128.6	165.4	175.1
84°	75.2	106.8	136.1	145.5	97.3	63.7	26.2	57.4	103.0	136.6	148.4
85°	60.8	89.2	110.2	115.7	71.8	53.4	17.3	41.5	77.0	107.3	122.1
86°	46.1	72.4	84.7	85.9	47.4	28.4	9.9	24.6	53.0	76.6	94.7
87°	34.9	54.4	59.2	59.2	27.6	14.3	4.2	11.6	28.4	52.4	69.1
88°	24.5	36.4	35.7	34.1	9.1	3.3	0.0	1.8	9.4	26.9	53.0
89°	15.4	20.9	16.8	9.3	0.0	0.0	0.0	0.0	0.9	7.8	24.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	8.7	8.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5



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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	1246.1	1246.1
1°	1246.8	1246.4
2°	1247.4	1246.7
3°	1246.8	1246.5
4°	1245.9	1245.9
5°	1244.6	1244.5
6°	1242.6	1242.7
7°	1240.3	1240.3
8°	1237.3	1237.3
9°	1233.7	1233.7
10°	1229.7	1229.7
11°	1225.3	1225.0
12°	1220.1	1220.1
13°	1214.8	1214.2
14°	1208.4	1207.8
15°	1201.7	1200.5
16°	1194.9	1193.9
17°	1187.4	1185.7
18°	1179.5	1177.8
19°	1170.4	1168.6
20°	1162.5	1160.0
21°	1152.3	1149.6
22°	1143.5	1139.4
23°	1132.4	1128.8
24°	1122.7	1117.6
25°	1110.7	1106.2
26°	1100.4	1094.0
27°	1087.7	1081.6
28°	1075.6	1068.9
29°	1063.2	1055.6
30°	1050.3	1042.0
31°	1037.0	1028.3
32°	1023.7	1013.7
33°	1009.6	999.1
34°	995.5	984.1
35°	980.9	968.9
36°	966.0	953.4
37°	951.1	937.1
38°	935.7	921.4
39°	920.2	903.3
40°	904.4	886.8
41°	888.2	869.8
42°	871.9	852.8
43°	855.4	835.6
44°	838.7	817.9



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CANDELA DISTRIBUTION (continued):

	330°	360°
45°	821.7	800.2
46°	802.9	782.5
47°	787.1	764.5
48°	767.9	746.5
49°	752.1	728.1
50°	732.8	709.7
51°	716.2	691.3
52°	697.0	672.8
53°	678.9	654.0
54°	660.7	635.4
55°	642.6	616.7
56°	624.1	595.8
57°	605.8	578.8
58°	587.3	558.0
59°	568.9	540.7
60°	550.3	519.9
61°	531.7	502.4
62°	511.4	481.6
63°	494.4	462.3
64°	474.0	443.2
65°	457.1	423.9
66°	436.6	404.6
67°	418.0	385.4
68°	399.3	366.0
69°	382.2	346.9
70°	361.9	327.6
71°	343.1	308.5
72°	324.4	289.4
73°	305.9	270.2
74°	287.3	251.4
75°	268.7	232.5
76°	250.0	213.9
77°	231.6	195.5
78°	209.0	177.3
79°	194.0	159.3
80°	176.0	141.7
81°	157.6	123.4
82°	140.6	107.1
83°	122.7	91.4
84°	106.1	75.2
85°	89.5	60.8
86°	72.0	46.1
87°	55.5	34.9
88°	37.5	24.5
89°	22.1	15.4



TEST NUMBER: A1706983C001(120V)

CATALOG NUMBER: 22RTC3435

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	10.9	8.7

(END OF REPORT)