

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: A1708561B001(120V)

Luminaire Tested: **14RTC3435**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: A1708561B001(120V)  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA A1708561A001  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RTC3435  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

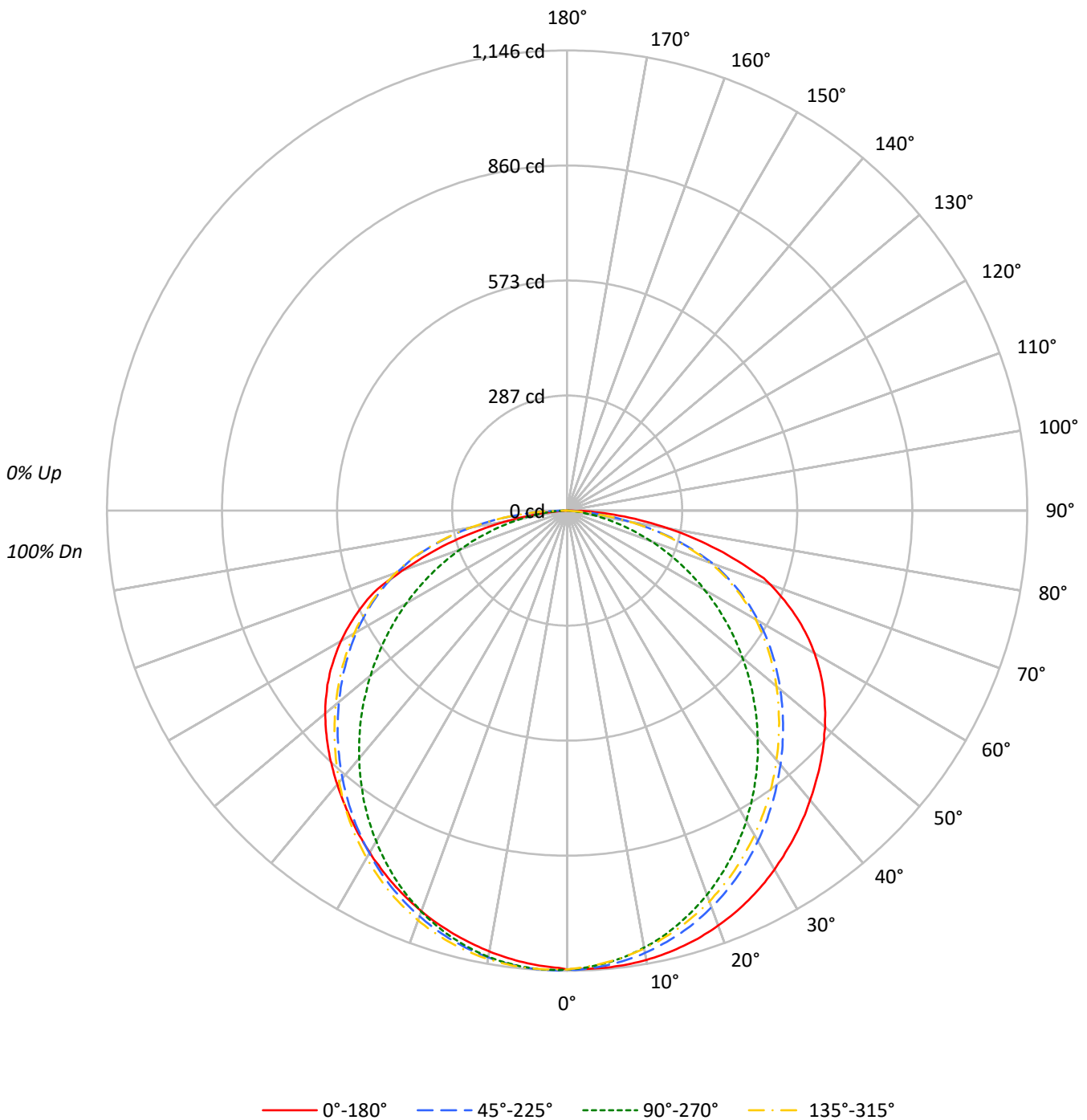
Lumens per Lamp: 3516.082 (1 lamp)  
Luminaire Lumens: 3516.1 lumens  
Efficiency: 100.0%  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.2 / 1.39  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.443  
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	98	94	105	101	96	93	96	93	90		92	90	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60		70	64	59		67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34		46	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24		36	29	24		35	29	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	3869	3869	3869	3869
5°	3883	3844	3846	3882
10°	3907	3800	3834	3880
15°	3933	3740	3826	3861
20°	3964	3669	3826	3829
25°	3998	3585	3830	3781
30°	4037	3490	3843	3717
35°	4087	3379	3878	3650
40°	4162	3263	3937	3562
45°	4270	3138	4026	3471
50°	4418	3004	4144	3365
55°	4598	2855	4272	3255
60°	4819	2676	4404	3133
65°	5061	2469	4508	2991
70°	5337	2203	4322	2816
75°	5257	1847	3821	2555
80°	4974	1332	2970	2229
85°	4569	645	1158	1842



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	108.1	3.1	3.1	0°	1143	1143	1143	1143	1143	
10°-20°	309.5	8.8	8.8	5°	1142	1131	1132	1142	1142	109
20°-30°	469.1	13.3	13.3	15°	1122	1067	1092	1101	1122	317
30°-40°	568.8	16.2	16.2	25°	1070	960	1025	1012	1070	494
40°-50°	603.5	17.2	17.2	35°	989	817	938	883	989	620
50°-60°	576.0	16.4	16.4	45°	892	655	841	725	892	689
60°-70°	484.3	13.8	13.8	55°	779	484	724	551	779	697
70°-80°	310.8	8.8	8.8	65°	632	308	563	373	632	623
80°-90°	85.9	2.4	2.4	75°	402	141	292	195	402	422
90°-100°	0.0	0.0	0.0	85°	118	17	30	47	118	133
100°-110°	0.0	0.0	0.0	90°	3	0	0	6	3	
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°	886.7	25.2	25.2							
0°-40°	1455.5	41.4	41.4							
0°-60°	2635.0	74.9	74.9							
0°-90°	3516.1	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°	3516.1	100.0	100.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7
1°	1141.6	1145.7	1143.0	1141.8	1140.0	1140.2	1139.4	1146.4	1144.8	1144.3	1142.9
2°	1142.4	1144.6	1141.3	1139.9	1137.7	1138.5	1137.9	1146.0	1144.8	1144.4	1143.6
3°	1142.6	1143.6	1139.3	1137.2	1134.5	1136.0	1136.2	1145.4	1144.6	1144.5	1143.9
4°	1142.7	1142.0	1136.7	1134.0	1131.6	1133.7	1133.8	1144.4	1144.0	1143.8	1143.9
5°	1142.5	1140.2	1133.5	1130.8	1127.6	1130.7	1131.5	1143.1	1142.8	1142.2	1143.3
6°	1141.6	1138.0	1130.4	1126.6	1124.2	1127.5	1129.0	1141.3	1141.0	1140.6	1142.2
7°	1141.0	1135.0	1126.4	1122.2	1119.2	1124.3	1125.7	1139.0	1139.2	1138.0	1140.3
8°	1139.5	1132.4	1121.7	1117.0	1114.4	1120.3	1122.5	1136.9	1136.2	1135.5	1138.3
9°	1138.0	1129.4	1117.2	1111.5	1108.8	1116.3	1118.7	1133.8	1133.5	1132.2	1135.6
10°	1136.2	1125.0	1111.6	1105.3	1103.3	1111.6	1115.0	1130.7	1129.4	1128.6	1133.1
11°	1134.0	1121.4	1105.9	1098.7	1096.8	1106.6	1110.6	1127.5	1125.7	1124.0	1129.8
12°	1131.4	1116.6	1099.2	1091.7	1090.5	1101.6	1106.2	1123.4	1120.9	1119.1	1125.5
13°	1128.9	1112.0	1093.1	1084.2	1083.0	1096.0	1101.4	1119.3	1116.5	1113.7	1121.5
14°	1125.6	1106.4	1085.5	1075.6	1075.7	1090.3	1096.5	1114.7	1110.9	1107.9	1116.7
15°	1122.0	1101.4	1078.9	1066.9	1067.7	1084.2	1091.5	1109.9	1104.7	1101.4	1111.1
16°	1118.3	1095.3	1070.3	1058.0	1059.3	1077.7	1086.0	1105.1	1098.8	1094.7	1106.0
17°	1114.4	1089.4	1062.8	1048.8	1050.8	1070.9	1080.4	1099.4	1092.0	1087.3	1099.0
18°	1109.7	1082.5	1053.3	1038.8	1041.6	1064.3	1074.7	1093.6	1084.9	1079.5	1093.2
19°	1104.9	1075.6	1044.3	1028.8	1031.7	1057.3	1068.4	1087.7	1077.5	1071.3	1085.6
20°	1100.0	1068.2	1034.6	1018.1	1022.5	1049.8	1061.7	1081.0	1069.5	1062.6	1078.8
21°	1094.5	1060.7	1024.9	1007.1	1011.3	1041.2	1055.1	1074.5	1061.3	1053.0	1070.0
22°	1088.8	1052.8	1014.7	995.8	1001.7	1033.0	1047.8	1067.8	1052.8	1043.6	1061.8
23°	1082.8	1044.4	1004.1	983.9	989.7	1024.6	1040.7	1060.4	1043.5	1033.5	1053.0
24°	1076.7	1036.0	993.4	971.9	979.7	1015.9	1033.1	1052.3	1034.0	1023.0	1044.4
25°	1070.0	1027.0	982.3	959.6	967.5	1007.3	1025.2	1045.3	1024.3	1012.1	1034.7
26°	1063.0	1018.1	970.8	946.8	956.9	997.9	1017.4	1036.5	1014.0	1000.6	1024.8
27°	1055.7	1008.8	959.1	933.7	943.9	988.8	1009.1	1028.9	1003.5	989.1	1014.5
28°	1048.3	999.1	946.9	920.0	931.6	978.9	1000.1	1019.3	992.6	975.9	1003.8
29°	1040.3	989.3	934.7	906.5	919.2	969.2	992.5	1011.1	981.6	964.6	993.0
30°	1032.6	979.4	920.8	892.5	906.7	959.3	983.0	1001.1	969.1	950.7	981.9
31°	1023.4	969.2	909.2	877.0	893.7	949.1	975.1	992.5	957.5	938.6	970.3
32°	1015.6	958.8	894.8	863.6	880.9	938.7	965.4	982.1	945.4	924.0	958.6
33°	1006.3	947.9	882.6	847.5	867.4	928.4	957.3	972.1	933.3	911.3	946.4
34°	998.3	937.2	867.9	833.8	854.1	917.7	947.4	962.5	921.0	896.1	933.7
35°	988.7	925.4	855.5	817.4	840.7	907.2	938.2	952.4	908.1	883.0	921.1
36°	980.3	915.5	840.5	803.2	826.7	896.4	928.9	941.9	895.2	866.8	908.2
37°	970.1	903.2	826.4	786.1	812.8	885.4	919.3	931.5	881.9	852.0	894.8
38°	961.7	893.0	811.8	771.7	798.7	874.7	910.0	920.7	868.7	836.8	881.6
39°	951.1	880.9	797.6	754.2	784.2	863.6	900.5	910.0	855.2	821.5	866.5
40°	941.6	870.2	783.0	738.1	770.3	851.4	890.7	899.3	841.6	805.9	852.7
41°	931.7	857.8	768.3	721.9	756.0	841.5	881.2	888.5	827.4	789.9	838.9
42°	921.8	847.3	753.9	705.4	741.5	829.2	871.1	877.9	813.5	773.9	824.4
43°	911.8	834.7	739.2	689.0	726.9	819.0	861.2	866.8	799.3	757.7	810.2
44°	901.8	823.0	724.3	672.1	711.2	806.7	851.2	855.8	784.8	741.6	795.6



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	891.7	811.5	709.4	655.3	697.9	796.2	840.8	844.7	770.6	724.9	780.9
46°	881.2	799.6	694.6	638.7	681.8	783.7	830.4	833.5	755.9	708.1	766.3
47°	870.9	787.8	679.7	621.5	668.4	772.2	819.7	822.1	740.1	691.3	751.6
48°	860.5	775.6	664.8	604.6	652.7	760.6	808.8	810.6	726.8	672.8	736.5
49°	848.6	763.2	649.9	587.3	639.3	749.0	797.7	798.8	710.8	657.2	721.6
50°	838.7	751.3	635.3	570.2	623.6	737.0	786.7	786.9	697.4	638.7	706.7
51°	826.2	738.8	620.3	553.2	610.4	725.1	774.9	775.0	681.2	622.9	691.4
52°	815.9	725.9	605.7	535.7	594.6	712.7	763.0	763.2	667.8	603.8	676.4
53°	803.3	713.2	589.6	518.4	580.0	700.0	749.6	751.6	651.7	586.2	661.6
54°	792.2	700.0	576.6	501.2	565.6	687.4	738.0	739.3	638.4	568.8	646.6
55°	778.9	686.8	560.6	483.7	551.2	674.3	723.6	727.2	622.4	551.3	631.8
56°	766.5	673.1	547.4	464.9	536.7	661.0	711.3	714.8	607.8	533.5	615.5
57°	753.3	659.0	531.6	449.1	522.2	647.5	695.7	702.1	593.2	515.9	601.7
58°	740.0	644.8	518.3	430.0	507.8	633.6	681.0	689.2	578.4	498.1	585.6
59°	726.0	630.0	502.5	414.1	493.4	619.2	666.1	675.5	563.8	480.4	572.1
60°	711.6	613.3	487.7	395.1	478.9	604.4	650.3	662.1	549.3	462.7	556.1
61°	697.0	597.7	473.2	379.2	464.4	589.4	634.0	647.9	534.8	444.8	542.5
62°	681.3	581.7	458.7	360.1	449.8	573.7	617.2	633.4	520.1	427.0	526.7
63°	665.3	565.1	443.7	342.6	435.0	556.2	599.6	618.7	505.5	409.1	511.7
64°	648.8	547.8	428.9	325.3	420.1	541.3	581.5	603.4	490.8	391.2	497.2
65°	631.7	530.5	413.9	308.1	405.3	523.0	562.7	587.8	475.9	373.3	482.0
66°	614.0	512.4	398.6	291.0	389.0	507.1	544.4	571.8	461.0	355.5	467.0
67°	595.4	493.8	383.2	273.7	375.0	487.4	523.7	555.0	446.1	337.5	451.9
68°	576.7	474.8	367.5	256.5	358.1	470.8	497.1	538.2	431.1	319.9	436.5
69°	557.4	456.2	351.6	239.5	342.4	450.8	464.4	519.0	415.9	300.6	421.3
70°	539.1	436.8	335.6	222.5	326.8	429.8	436.6	502.5	400.5	284.4	405.7
71°	517.8	411.0	319.4	205.9	310.5	404.3	405.2	482.1	385.0	265.2	389.9
72°	485.9	382.5	303.0	187.9	294.6	376.3	379.4	465.0	367.8	249.3	373.7
73°	458.0	356.4	286.1	173.1	278.4	349.0	349.0	443.1	353.2	230.3	357.4
74°	427.4	329.6	269.3	155.5	262.1	322.5	323.3	417.5	335.6	209.1	340.9
75°	401.8	303.0	252.2	141.2	245.4	296.1	292.1	389.3	320.9	195.3	324.1
76°	370.3	273.5	234.7	124.3	228.5	269.8	266.3	360.9	302.9	180.0	307.3
77°	343.9	248.6	209.4	110.8	208.5	243.1	235.6	333.8	286.3	161.9	290.1
78°	312.2	219.4	193.1	95.2	189.1	216.2	206.7	307.0	269.5	145.7	272.9
79°	286.0	195.0	173.2	82.6	166.4	189.9	179.4	280.0	252.6	129.7	255.2
80°	255.1	165.9	149.4	68.3	144.8	163.2	152.3	252.7	235.3	114.3	237.5
81°	227.4	140.7	128.3	56.2	124.0	135.7	127.7	221.6	217.9	100.1	218.3
82°	197.6	115.7	105.3	44.3	100.8	110.4	101.1	197.7	194.4	85.3	196.2
83°	170.8	89.3	83.8	34.2	78.0	85.7	77.2	169.9	171.5	72.1	174.0
84°	143.4	65.5	61.1	24.5	56.7	59.9	52.1	143.9	147.6	58.8	150.0
85°	117.6	46.1	41.7	16.6	36.1	35.7	29.8	118.4	124.8	47.4	127.3
86°	92.8	18.2	20.8	9.7	15.8	14.3	9.3	93.3	102.1	36.7	103.0
87°	68.5	1.6	4.0	4.0	1.7	1.5	1.1	68.5	79.1	27.3	81.3
88°	53.4	0.0	0.0	0.0	0.0	0.0	0.0	43.4	56.4	19.1	59.0
89°	21.7	0.0	0.0	0.0	0.0	0.0	0.0	21.1	34.0	12.0	35.3



TEST NUMBER: A1708561B001(120V)

CATALOG NUMBER: 14RTC3435

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	4.8	14.1	6.5	15.3





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**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	1142.7	1142.7
1°	1142.7	1141.6
2°	1143.4	1142.4
3°	1143.7	1142.6
4°	1143.7	1142.7
5°	1143.3	1142.5
6°	1142.4	1141.6
7°	1141.3	1141.0
8°	1139.6	1139.5
9°	1137.6	1138.0
10°	1135.7	1136.2
11°	1133.1	1134.0
12°	1130.2	1131.4
13°	1126.9	1128.9
14°	1123.2	1125.6
15°	1119.2	1122.0
16°	1114.8	1118.3
17°	1109.9	1114.4
18°	1105.0	1109.7
19°	1099.3	1104.9
20°	1093.5	1100.0
21°	1086.7	1094.5
22°	1080.8	1088.8
23°	1073.5	1082.8
24°	1067.0	1076.7
25°	1059.0	1070.0
26°	1051.8	1063.0
27°	1042.7	1055.7
28°	1034.3	1048.3
29°	1025.5	1040.3
30°	1016.6	1032.6
31°	1007.0	1023.4
32°	997.3	1015.6
33°	987.8	1006.3
34°	977.7	998.3
35°	967.5	988.7
36°	957.0	980.3
37°	945.3	970.1
38°	935.7	961.7
39°	923.8	951.1
40°	913.9	941.6
41°	901.6	931.7
42°	891.4	921.8
43°	879.3	911.8
44°	867.8	901.8



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CATALOG NUMBER: 14RTC3435

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	856.8	891.7
46°	845.2	881.2
47°	833.4	870.9
48°	821.8	860.5
49°	810.0	848.6
50°	798.1	838.7
51°	786.3	826.2
52°	773.8	815.9
53°	761.7	803.3
54°	749.4	792.2
55°	736.8	778.9
56°	723.9	766.5
57°	710.7	753.3
58°	697.3	740.0
59°	683.6	726.0
60°	669.3	711.6
61°	655.0	697.0
62°	638.8	681.3
63°	624.9	665.3
64°	607.9	648.8
65°	593.1	631.7
66°	574.6	614.0
67°	559.1	595.4
68°	539.6	576.7
69°	521.4	557.4
70°	502.8	539.1
71°	483.4	517.8
72°	464.7	485.9
73°	445.0	458.0
74°	419.3	427.4
75°	390.5	401.8
76°	363.5	370.3
77°	336.9	343.9
78°	309.4	312.2
79°	282.1	286.0
80°	254.3	255.1
81°	220.9	227.4
82°	199.1	197.6
83°	171.0	170.8
84°	145.6	143.4
85°	120.3	117.6
86°	93.9	92.8
87°	70.8	68.5
88°	46.1	53.4
89°	23.6	21.7



TEST NUMBER: A1708561B001(120V)

CATALOG NUMBER: 14RTC3435

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	6.1	3.2

(END OF REPORT)