

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: A1706983D001(277V)

Luminaire Tested: **22RTC3435**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: A1706983D001(277V)
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA A1706983D001
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

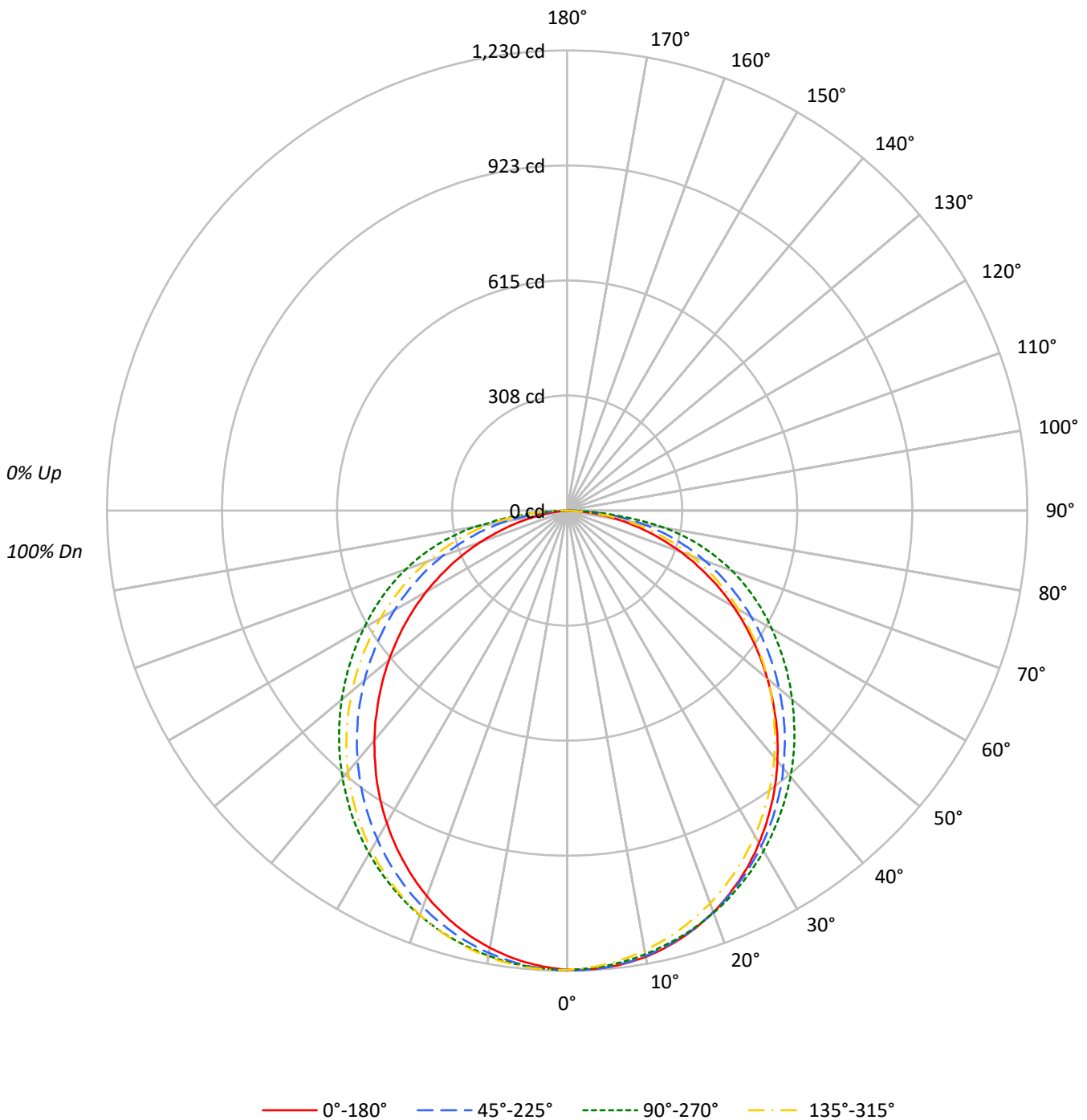
Lumens per Lamp: 3584.386 (1 lamp)
Luminaire Lumens: 3584.4 lumens
Efficiency: 100.0%
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 27.828
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	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	46	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°	3946	3946	3946	3946
5°	3954	3939	3915	3946
10°	3952	3929	3873	3944
15°	3936	3921	3820	3942
20°	3907	3914	3750	3938
25°	3866	3906	3670	3934
30°	3807	3898	3578	3928
35°	3743	3894	3476	3923
40°	3669	3896	3365	3917
45°	3588	3905	3238	3920
50°	3493	3929	3108	3934
55°	3400	3971	2965	3961
60°	3299	4059	2800	4029
65°	3171	4200	2599	4146
70°	3043	4402	2321	4318
75°	2838	4638	1942	4528
80°	2575	4866	1403	4627
85°	2205	4182	634	3909



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	116.0	3.2	3.2	0°	1228	1228	1228	1228	1228	
10°-20°	331.2	9.2	9.2	5°	1226	1221	1213	1223	1226	117
20°-30°	499.5	13.9	13.9	15°	1183	1178	1148	1185	1183	334
30°-40°	599.7	16.7	16.7	25°	1090	1101	1035	1109	1090	502
40°-50°	622.2	17.4	17.4	35°	954	992	886	1000	954	596
50°-60°	571.1	15.9	15.9	45°	789	859	712	862	789	608
60°-70°	458.9	12.8	12.8	55°	607	709	529	707	607	542
70°-80°	296.2	8.3	8.3	65°	417	552	342	545	417	414
80°-90°	89.4	2.5	2.5	75°	228	374	156	365	228	242
90°-100°	0.0	0.0	0.0	85°	60	113	17	106	60	70
100°-110°	0.0	0.0	0.0	90°	8	0	0	0	8	
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°	946.8	26.4	26.4							
0°-40°	1546.4	43.1	43.1							
0°-60°	2739.8	76.4	76.4							
0°-90°	3584.4	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°	3584.4	100.0	100.0							



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7
1°	1227.5	1230.5	1228.5	1226.8	1225.8	1226.3	1225.1	1229.3	1228.4	1227.3	1227.5
2°	1227.7	1230.4	1227.8	1225.8	1224.5	1224.5	1222.9	1227.8	1227.5	1226.7	1227.7
3°	1227.6	1229.7	1226.8	1224.7	1222.5	1222.2	1220.4	1225.6	1226.2	1225.8	1227.3
4°	1227.0	1228.7	1225.3	1223.0	1219.9	1219.3	1217.2	1223.1	1224.6	1224.8	1226.6
5°	1225.6	1227.0	1223.3	1220.9	1216.8	1215.9	1213.4	1220.2	1222.4	1223.1	1225.4
6°	1223.8	1224.9	1220.9	1218.2	1213.8	1212.3	1209.0	1216.5	1219.7	1221.0	1223.8
7°	1221.4	1222.2	1218.1	1215.4	1209.6	1207.8	1204.3	1212.6	1216.7	1218.5	1221.7
8°	1218.5	1218.8	1214.8	1211.7	1205.7	1203.0	1198.8	1207.8	1213.1	1215.5	1218.8
9°	1214.9	1215.0	1211.0	1208.4	1200.7	1197.6	1193.1	1202.9	1209.1	1212.2	1216.1
10°	1211.0	1210.7	1206.9	1203.8	1196.2	1191.8	1186.6	1197.2	1204.7	1208.4	1212.4
11°	1206.4	1205.8	1202.3	1199.6	1190.0	1185.5	1180.0	1191.3	1199.8	1204.4	1208.9
12°	1201.2	1200.6	1197.2	1194.5	1184.4	1179.0	1172.7	1184.6	1194.5	1199.5	1204.1
13°	1195.6	1194.7	1191.8	1189.3	1178.0	1171.7	1164.9	1177.7	1188.9	1195.1	1199.7
14°	1189.5	1188.5	1186.0	1184.0	1171.6	1164.3	1156.6	1170.3	1182.9	1189.6	1194.2
15°	1182.9	1181.2	1180.2	1178.3	1164.7	1155.5	1148.0	1162.5	1176.4	1184.7	1188.7
16°	1175.7	1174.7	1173.6	1172.3	1157.6	1147.6	1138.7	1153.7	1169.6	1178.5	1182.9
17°	1168.2	1166.4	1167.0	1165.6	1149.9	1137.8	1129.0	1145.1	1162.6	1172.9	1176.7
18°	1159.9	1159.0	1159.7	1158.8	1142.0	1129.3	1117.8	1135.9	1155.2	1165.7	1170.0
19°	1151.5	1149.6	1152.3	1151.6	1133.5	1118.6	1108.3	1126.2	1147.2	1158.8	1163.2
20°	1142.3	1141.5	1144.2	1144.3	1125.1	1109.3	1096.4	1116.0	1139.0	1151.4	1155.7
21°	1132.9	1131.2	1135.0	1136.3	1116.0	1097.7	1084.8	1104.6	1130.4	1143.7	1147.8
22°	1122.8	1121.4	1126.4	1128.2	1106.8	1086.8	1073.0	1094.7	1121.4	1135.6	1139.6
23°	1112.4	1111.1	1117.3	1119.6	1097.0	1075.6	1060.7	1082.4	1112.0	1127.2	1131.0
24°	1100.5	1100.5	1107.7	1109.8	1087.0	1063.9	1047.9	1071.8	1101.4	1118.3	1121.9
25°	1090.2	1089.4	1097.9	1101.4	1076.7	1051.9	1034.8	1058.8	1092.2	1109.2	1112.6
26°	1077.3	1078.2	1087.9	1091.1	1066.0	1039.6	1021.3	1047.5	1080.8	1099.6	1102.9
27°	1066.4	1066.5	1077.3	1082.3	1055.0	1026.8	1007.5	1033.6	1071.0	1089.8	1092.8
28°	1052.5	1054.4	1066.7	1071.3	1042.7	1013.9	993.3	1020.5	1058.9	1079.6	1082.4
29°	1040.7	1041.9	1055.5	1061.7	1032.0	1000.4	978.8	1007.1	1048.4	1069.2	1071.5
30°	1025.8	1029.1	1044.1	1050.2	1019.1	986.8	964.1	993.3	1035.5	1058.4	1060.5
31°	1012.1	1015.9	1032.5	1039.1	1008.0	972.8	949.1	979.5	1023.4	1047.2	1047.9
32°	998.0	1002.7	1020.5	1027.9	994.6	958.8	933.6	965.2	1011.0	1035.8	1037.2
33°	983.5	988.8	1008.0	1016.1	983.0	944.1	918.0	950.6	998.3	1024.1	1023.9
34°	969.0	974.7	995.6	1004.5	968.9	929.4	902.1	935.5	985.2	1012.3	1012.7
35°	953.9	960.4	982.8	992.3	957.0	914.4	886.0	920.5	972.0	999.8	998.8
36°	938.6	945.7	969.8	980.1	942.4	899.1	869.5	905.1	958.5	987.4	987.0
37°	922.9	930.8	956.4	967.5	928.8	883.6	851.4	889.4	944.8	973.4	972.6
38°	907.0	915.7	942.9	954.8	914.8	867.9	836.0	873.5	930.8	960.6	960.6
39°	890.8	900.2	929.0	941.7	900.8	851.9	817.6	857.5	916.7	947.2	945.5
40°	874.4	883.1	913.6	928.5	886.5	834.4	801.9	841.2	901.0	933.6	931.4
41°	857.7	868.7	899.4	915.0	872.0	819.5	783.0	824.8	887.6	919.6	917.2
42°	841.0	851.1	884.9	901.4	857.3	801.6	767.2	808.0	871.3	905.7	902.7
43°	823.8	836.4	870.4	887.4	842.5	786.6	748.0	791.2	857.6	891.5	887.8
44°	806.7	818.4	856.8	873.3	827.4	768.2	730.1	772.7	841.0	877.0	872.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	789.3	803.2	840.4	859.1	812.1	752.9	712.3	757.0	826.8	862.4	857.7
46°	770.1	784.9	825.1	844.8	796.9	734.3	694.3	738.2	809.7	847.6	842.5
47°	752.5	767.9	809.7	828.9	781.3	717.4	676.1	722.3	793.9	832.7	827.0
48°	734.7	751.0	794.0	815.6	765.7	700.1	658.0	703.2	777.9	817.4	811.0
49°	716.6	733.7	778.3	799.4	750.0	682.8	639.8	687.2	761.8	802.1	795.2
50°	698.6	716.3	762.6	785.7	734.2	665.3	621.5	667.8	745.7	786.8	779.2
51°	680.2	698.9	746.8	769.4	718.2	647.9	603.2	651.7	729.4	771.2	763.0
52°	662.0	681.4	730.7	755.8	702.3	630.6	584.7	632.2	712.9	755.5	746.8
53°	643.7	663.6	714.6	739.3	684.8	612.9	566.1	614.3	696.3	738.6	730.3
54°	625.3	646.0	698.3	725.4	668.4	595.1	547.6	596.2	679.7	724.2	712.3
55°	606.8	628.2	681.9	708.7	652.3	577.5	529.1	578.2	663.0	706.9	697.2
56°	588.0	608.8	665.6	693.4	636.0	559.7	510.4	560.0	646.2	692.4	678.9
57°	569.4	592.6	649.2	678.0	619.8	541.9	491.8	541.9	629.5	675.0	662.0
58°	550.8	572.9	632.8	662.4	603.4	524.3	473.0	523.9	612.7	660.4	645.2
59°	532.0	556.6	616.2	647.0	587.0	506.4	454.2	505.7	595.6	643.0	628.2
60°	513.2	536.9	598.1	631.5	570.6	488.5	435.5	487.2	578.7	626.8	611.3
61°	494.3	520.4	583.0	615.8	554.0	470.7	416.9	469.1	561.7	610.7	594.2
62°	475.4	500.8	564.8	600.2	537.5	451.2	396.3	450.9	544.7	594.4	577.1
63°	456.4	482.7	549.5	584.4	520.9	433.3	379.3	432.5	527.6	578.1	559.9
64°	437.6	464.4	531.2	568.4	504.0	415.5	358.8	414.3	510.4	561.7	542.8
65°	417.0	446.3	515.8	552.3	487.1	397.5	341.7	396.1	491.6	545.2	525.5
66°	399.7	428.2	497.3	536.2	470.1	379.5	321.4	376.2	475.8	528.5	508.2
67°	379.0	410.1	481.7	519.7	453.0	361.8	302.8	359.6	456.8	511.7	490.8
68°	361.8	391.9	462.8	503.1	435.5	343.8	284.0	339.7	440.8	494.7	473.3
69°	341.1	373.7	445.2	485.9	416.3	325.9	265.4	321.5	421.4	477.2	455.6
70°	323.8	355.5	427.5	468.4	400.1	308.0	247.0	303.3	405.1	459.5	437.8
71°	303.3	337.3	409.7	450.7	380.3	290.1	228.6	285.1	385.3	441.4	419.9
72°	284.4	319.2	391.5	430.9	363.7	272.1	208.0	266.9	366.9	423.1	401.7
73°	265.7	301.1	373.0	412.2	343.3	254.3	191.7	248.7	348.1	404.1	381.6
74°	247.1	283.0	354.2	393.1	326.0	236.4	173.9	230.7	329.2	384.6	364.5
75°	228.5	264.7	335.3	373.5	305.2	218.6	156.4	208.4	309.9	364.6	343.8
76°	210.2	246.6	316.1	353.4	287.5	201.0	139.4	193.9	290.2	343.7	326.2
77°	192.0	228.5	296.5	332.1	265.5	183.3	122.6	176.1	270.0	322.3	304.8
78°	174.0	210.6	276.6	310.5	244.6	165.9	106.4	158.6	249.1	298.5	286.6
79°	156.4	192.7	256.0	288.0	208.1	148.6	90.7	141.3	227.9	278.0	263.9
80°	139.1	175.0	232.9	262.9	199.7	131.7	75.8	124.2	206.0	250.0	244.6
81°	122.5	156.2	209.1	234.1	174.4	113.8	61.3	108.2	182.0	207.4	221.6
82°	105.2	139.3	187.3	203.3	147.6	97.8	48.7	91.1	153.9	193.7	197.7
83°	89.6	122.5	159.9	174.1	122.3	81.5	36.3	73.7	127.9	163.4	172.5
84°	73.8	104.8	134.4	142.8	95.7	62.6	26.0	56.7	100.8	134.8	146.3
85°	59.8	88.5	108.8	113.4	70.5	47.6	17.2	40.0	75.3	106.0	120.4
86°	45.9	72.0	82.2	84.1	46.5	27.9	9.5	23.6	53.0	75.9	93.5
87°	34.2	54.1	58.5	57.8	27.1	14.0	4.2	11.5	27.6	50.5	68.1
88°	24.0	36.3	35.4	33.3	8.8	3.2	0.0	1.5	9.7	26.7	47.1
89°	15.5	20.4	16.6	8.7	0.0	0.0	0.0	0.0	1.1	8.0	24.7



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	8.5	8.2	2.1	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°	1227.7	1227.7
1°	1228.2	1227.5
2°	1228.3	1227.7
3°	1227.9	1227.6
4°	1227.0	1227.0
5°	1225.7	1225.6
6°	1223.8	1223.8
7°	1221.4	1221.4
8°	1218.5	1218.5
9°	1215.0	1214.9
10°	1211.0	1211.0
11°	1206.7	1206.4
12°	1201.6	1201.2
13°	1196.2	1195.6
14°	1190.2	1189.5
15°	1183.8	1182.9
16°	1177.0	1175.7
17°	1169.6	1168.2
18°	1161.8	1159.9
19°	1153.5	1151.5
20°	1144.9	1142.3
21°	1134.7	1132.9
22°	1126.0	1122.8
23°	1115.2	1112.4
24°	1105.7	1100.5
25°	1093.9	1090.2
26°	1083.9	1077.3
27°	1071.4	1066.4
28°	1059.5	1052.5
29°	1047.1	1040.7
30°	1034.5	1025.8
31°	1021.6	1012.1
32°	1008.3	998.0
33°	994.7	983.5
34°	980.5	969.0
35°	966.5	953.9
36°	951.8	938.6
37°	937.1	922.9
38°	921.8	907.0
39°	906.5	890.8
40°	890.8	874.4
41°	875.0	857.7
42°	859.0	841.0
43°	842.7	823.8
44°	824.6	806.7



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CANDELA DISTRIBUTION (continued):

	330°	360°
45°	809.4	789.3
46°	790.9	770.1
47°	773.8	752.5
48°	756.7	734.7
49°	739.3	716.6
50°	721.8	698.6
51°	704.1	680.2
52°	686.6	662.0
53°	668.8	643.7
54°	650.9	625.3
55°	633.0	606.8
56°	614.9	588.0
57°	596.8	569.4
58°	578.7	550.8
59°	560.4	532.0
60°	542.1	513.2
61°	523.9	494.3
62°	503.8	475.4
63°	487.1	456.4
64°	467.1	437.6
65°	450.3	417.0
66°	430.2	399.7
67°	413.5	379.0
68°	393.4	361.8
69°	375.0	341.1
70°	356.5	323.8
71°	338.1	303.3
72°	319.8	284.4
73°	301.5	265.7
74°	283.2	247.1
75°	264.7	228.5
76°	246.4	210.2
77°	228.3	192.0
78°	209.2	174.0
79°	191.3	156.4
80°	173.4	139.1
81°	155.3	122.5
82°	138.7	105.2
83°	120.7	89.6
84°	104.4	73.8
85°	88.4	59.8
86°	71.1	45.9
87°	54.7	34.2
88°	37.1	24.0
89°	21.9	15.5



TEST NUMBER: A1706983D001(277V)

CATALOG NUMBER: 22RTC3435

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	10.8	8.5

(END OF REPORT)