

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: A1706983A001(120V)

Luminaire Tested: **22RTC4835**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: A1706983A001(120V)
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA A1706983A001
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RTC4835
Description:
Light Source: -
Ballast/Driver: -

Summary

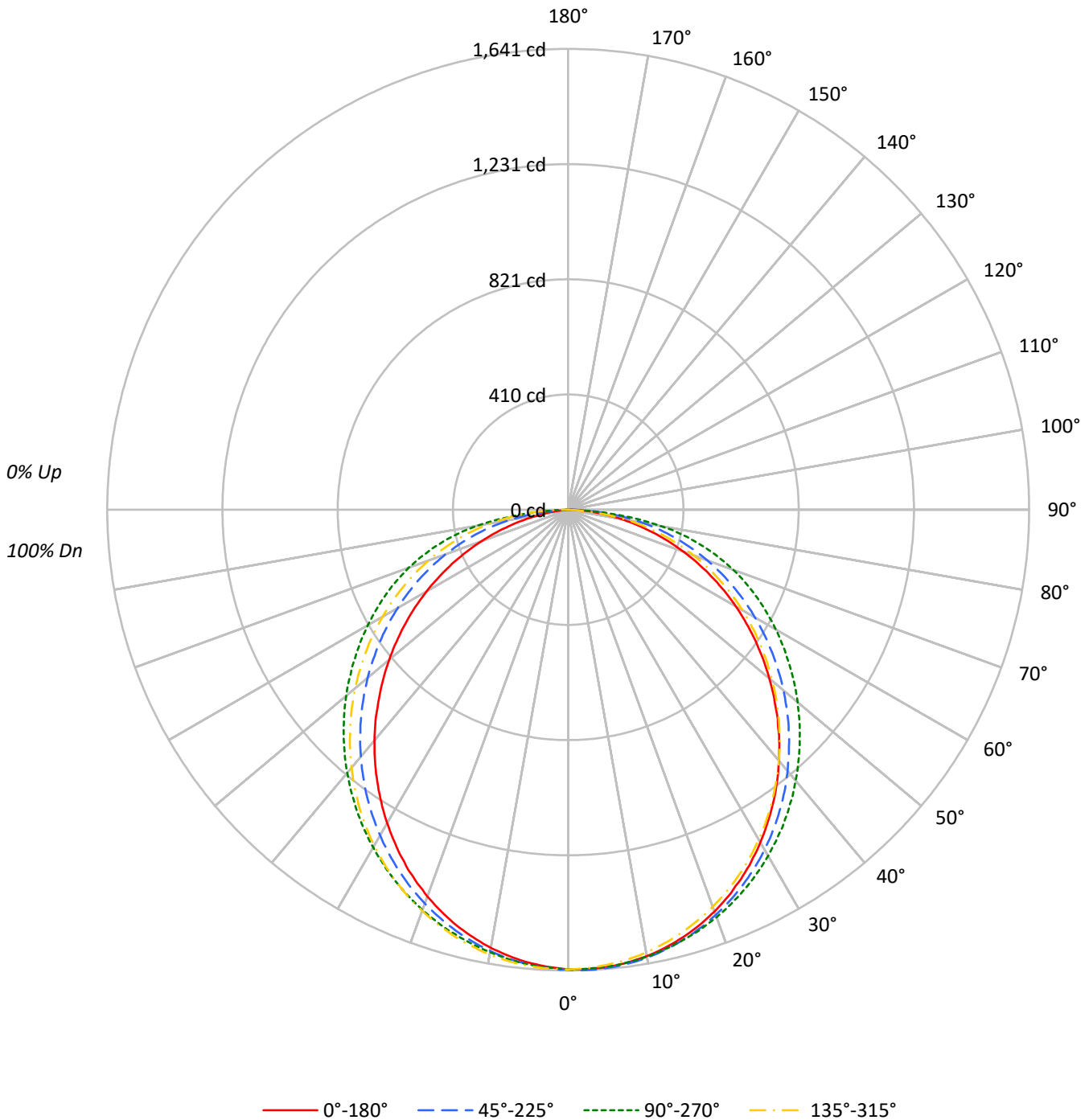
Lumens per Lamp: 4780.152 (1 lamp)
Luminaire Lumens: 4780.1 lumens
Efficiency: 100.0%
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.734
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	90	82	76	95	88	81	76	84	79	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	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	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	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5262	5262	5262	5262
5°	5273	5267	5223	5244
10°	5268	5275	5170	5223
15°	5246	5277	5100	5203
20°	5208	5281	5012	5188
25°	5153	5282	4903	5171
30°	5076	5284	4783	5150
35°	4993	5282	4648	5145
40°	4899	5286	4502	5135
45°	4795	5298	4333	5139
50°	4675	5330	4159	5159
55°	4559	5389	3967	5197
60°	4433	5483	3744	5293
65°	4273	5645	3470	5449
70°	4117	5871	3088	5674
75°	3865	6136	2567	5921
80°	3546	6216	1819	6090
85°	3120	5181	763	5074



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	154.8	3.2	3.2	0°	1637	1637	1637	1637	1637	
10°-20°	441.8	9.2	9.2	5°	1634	1632	1619	1625	1634	155
20°-30°	666.5	13.9	13.9	15°	1576	1586	1533	1564	1576	445
30°-40°	800.4	16.7	16.7	25°	1453	1490	1382	1458	1453	669
40°-50°	831.1	17.4	17.4	35°	1272	1346	1185	1311	1272	796
50°-60°	763.2	16.0	16.0	45°	1055	1166	953	1130	1055	813
60°-70°	612.6	12.8	12.8	55°	814	962	708	928	814	727
70°-80°	393.3	8.2	8.2	65°	562	742	456	716	562	557
80°-90°	116.4	2.4	2.4	75°	311	494	207	477	311	329
90°-100°	0.0	0.0	0.0	85°	85	140	21	138	85	99
100°-110°	0.0	0.0	0.0	90°	14	0	0	0	14	
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°	1263.1	26.4	26.4							
0°-40°	2063.5	43.2	43.2							
0°-60°	3657.9	76.5	76.5							
0°-90°	4780.1	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°	4780.1	100.0	100.0							



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	1637.1	1637.1	1637.1	1637.1	1637.1	1637.1	1637.1	1637.1	1637.1	1637.1	1637.1
1°	1636.8	1641.8	1639.4	1636.5	1635.4	1635.8	1634.2	1638.9	1637.5	1634.4	1635.5
2°	1637.2	1641.9	1639.4	1636.4	1634.5	1634.3	1631.0	1636.5	1635.3	1632.8	1634.9
3°	1636.6	1641.5	1639.3	1635.3	1633.0	1631.8	1628.0	1633.2	1632.9	1631.1	1633.8
4°	1635.6	1640.4	1638.6	1634.8	1630.5	1628.7	1623.3	1629.6	1629.9	1628.3	1631.8
5°	1634.2	1638.8	1636.4	1632.5	1628.1	1624.9	1618.7	1624.9	1626.3	1625.2	1629.2
6°	1631.2	1636.4	1634.5	1630.7	1624.1	1619.5	1613.3	1620.1	1621.6	1621.6	1626.1
7°	1628.5	1633.1	1631.6	1627.5	1620.2	1615.9	1606.8	1614.2	1617.1	1616.7	1622.4
8°	1624.2	1629.0	1628.2	1624.3	1615.8	1610.0	1600.2	1608.0	1611.1	1612.2	1618.0
9°	1619.0	1624.8	1623.9	1620.1	1610.5	1604.0	1592.3	1600.4	1605.1	1606.2	1612.7
10°	1614.0	1619.2	1619.0	1616.1	1605.1	1596.2	1584.1	1593.3	1598.6	1600.4	1607.8
11°	1608.3	1613.6	1614.0	1611.5	1598.5	1588.5	1575.2	1584.2	1591.5	1593.8	1601.9
12°	1600.9	1606.9	1607.8	1604.5	1591.6	1579.5	1565.0	1575.0	1583.9	1587.0	1594.5
13°	1593.3	1599.8	1601.3	1599.3	1584.4	1571.5	1555.3	1565.0	1575.3	1579.8	1587.5
14°	1585.2	1591.6	1594.2	1592.4	1576.2	1561.1	1544.2	1555.1	1566.6	1572.1	1580.2
15°	1576.5	1582.5	1586.6	1585.8	1567.9	1550.4	1532.8	1544.1	1557.5	1563.6	1572.3
16°	1566.9	1574.3	1578.8	1578.2	1559.1	1539.6	1520.5	1532.4	1548.0	1556.1	1563.3
17°	1556.5	1563.3	1570.5	1571.4	1549.3	1528.1	1507.5	1520.4	1537.4	1547.0	1554.5
18°	1546.1	1554.0	1560.7	1562.3	1540.3	1516.5	1494.1	1507.6	1527.0	1536.6	1545.1
19°	1534.1	1541.6	1551.9	1553.4	1529.5	1503.7	1480.0	1494.5	1516.2	1527.5	1535.0
20°	1522.6	1530.2	1540.5	1544.0	1518.8	1490.5	1465.4	1480.8	1503.5	1516.7	1524.6
21°	1509.5	1518.1	1531.2	1534.3	1506.0	1476.7	1448.9	1466.4	1492.3	1505.7	1513.6
22°	1496.5	1505.1	1518.9	1523.7	1495.6	1462.5	1434.6	1451.5	1478.9	1494.3	1502.4
23°	1482.7	1491.7	1508.4	1512.4	1482.0	1447.5	1416.9	1436.2	1467.1	1483.0	1490.5
24°	1466.2	1478.1	1495.1	1502.0	1470.3	1432.2	1401.8	1420.5	1452.3	1470.6	1476.9
25°	1453.0	1463.4	1482.6	1489.5	1455.5	1416.7	1382.4	1404.3	1439.5	1458.0	1465.4
26°	1436.1	1448.6	1469.4	1477.5	1442.8	1400.8	1366.3	1387.7	1424.0	1444.5	1450.7
27°	1421.2	1433.3	1455.6	1464.7	1427.2	1384.0	1346.6	1370.8	1409.6	1431.6	1438.5
28°	1402.6	1417.4	1441.4	1451.3	1412.3	1367.0	1327.6	1351.6	1394.2	1416.7	1422.6
29°	1387.1	1401.0	1426.9	1437.6	1396.8	1349.2	1308.3	1335.4	1378.6	1404.0	1409.2
30°	1367.6	1384.2	1412.0	1423.8	1381.3	1331.4	1288.7	1315.4	1362.7	1387.7	1393.4
31°	1349.8	1366.7	1396.4	1407.5	1366.1	1312.9	1268.8	1298.1	1346.7	1374.5	1377.8
32°	1331.0	1349.1	1380.7	1393.8	1349.2	1294.5	1248.3	1277.1	1330.0	1358.0	1361.8
33°	1312.0	1329.1	1364.0	1377.8	1332.4	1274.9	1227.2	1259.3	1313.0	1343.2	1345.8
34°	1292.6	1312.1	1347.5	1363.7	1314.8	1253.8	1206.1	1237.7	1295.4	1326.4	1329.5
35°	1272.5	1291.3	1330.3	1346.1	1297.2	1233.7	1184.6	1219.2	1278.1	1311.2	1312.6
36°	1252.4	1273.7	1312.7	1330.9	1279.6	1213.3	1162.9	1197.0	1259.9	1292.9	1295.4
37°	1231.5	1252.2	1294.9	1312.4	1260.8	1192.8	1140.8	1176.0	1241.4	1276.1	1278.2
38°	1210.5	1233.6	1276.8	1297.0	1242.2	1172.0	1118.4	1155.1	1222.8	1259.3	1260.4
39°	1189.1	1211.3	1257.9	1277.5	1223.7	1150.7	1095.6	1133.7	1203.9	1241.6	1241.9
40°	1167.5	1190.5	1239.4	1259.8	1204.4	1129.1	1073.0	1111.9	1184.9	1223.9	1223.4
41°	1145.2	1169.4	1218.4	1241.6	1184.8	1107.1	1049.7	1090.0	1165.5	1205.6	1204.8
42°	1123.1	1147.7	1200.6	1222.8	1165.2	1085.2	1026.5	1068.0	1145.7	1187.2	1185.8
43°	1100.5	1126.2	1179.2	1204.5	1145.1	1063.0	1003.0	1045.5	1123.8	1168.6	1166.6
44°	1075.8	1104.0	1160.7	1185.1	1122.8	1040.4	977.2	1023.1	1105.7	1149.8	1145.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	1054.9	1081.9	1138.6	1165.6	1104.0	1017.6	953.3	1000.3	1083.4	1130.5	1127.0
46°	1029.7	1059.3	1119.8	1146.2	1081.3	994.8	929.2	977.5	1065.0	1110.9	1105.1
47°	1006.0	1036.8	1096.9	1126.9	1062.3	971.8	905.2	954.5	1041.9	1091.2	1084.9
48°	982.9	1013.8	1075.9	1106.4	1039.3	948.6	881.0	931.2	1023.0	1071.8	1064.4
49°	958.7	990.5	1054.6	1085.9	1017.7	925.3	856.2	908.1	999.7	1051.9	1043.8
50°	935.0	967.5	1033.2	1065.9	996.0	901.8	831.8	884.5	980.6	1031.8	1022.8
51°	911.0	943.9	1011.0	1045.4	974.3	877.8	807.4	860.9	957.0	1011.6	1001.6
52°	886.6	920.5	989.5	1024.8	952.9	852.2	782.6	837.2	935.4	991.2	980.3
53°	862.5	896.7	967.6	1003.5	930.8	830.7	757.7	811.1	914.0	969.1	959.0
54°	838.0	872.8	945.3	982.8	908.4	804.2	733.0	789.6	891.8	950.6	937.7
55°	813.5	848.9	923.1	961.6	886.0	782.6	707.9	763.4	870.1	927.5	916.0
56°	788.9	822.7	900.7	938.8	863.8	756.1	683.0	741.7	848.1	909.0	894.1
57°	763.9	800.8	878.1	919.0	841.6	734.2	657.8	715.5	826.0	886.2	872.6
58°	739.4	774.3	855.6	896.2	819.0	707.8	632.9	691.4	804.1	867.5	850.6
59°	714.5	752.5	832.8	876.4	796.2	683.6	607.6	667.2	781.5	844.1	828.7
60°	689.6	725.8	809.9	853.0	773.5	659.1	582.4	643.1	759.4	823.4	806.5
61°	664.4	703.3	787.1	833.2	750.9	634.8	557.4	618.9	737.0	801.9	784.1
62°	639.8	676.9	764.0	809.3	725.9	610.4	529.9	594.8	714.6	780.9	762.0
63°	612.3	652.4	741.0	787.2	704.8	586.0	506.9	570.6	691.8	759.5	739.8
64°	589.3	627.8	717.7	765.1	679.4	561.5	479.1	546.1	669.3	738.2	717.3
65°	561.8	603.2	694.2	742.3	657.8	537.0	456.2	522.0	646.3	716.5	692.7
66°	539.0	578.6	668.6	719.5	632.3	512.5	429.0	497.6	623.5	694.4	672.1
67°	511.6	554.0	647.0	696.2	610.6	488.0	405.9	473.4	598.3	672.3	647.3
68°	488.7	529.6	620.7	673.1	584.0	463.5	378.5	449.1	575.1	649.9	626.7
69°	461.3	504.9	598.8	649.1	559.5	438.8	353.4	422.6	551.4	625.1	601.4
70°	438.1	480.1	571.9	624.7	534.7	414.3	328.6	400.5	527.8	603.8	580.2
71°	410.8	455.4	547.2	599.5	509.5	389.7	304.1	374.0	503.6	577.9	554.7
72°	385.7	430.6	522.0	574.0	484.0	365.1	279.4	352.0	479.3	555.6	530.9
73°	360.6	406.1	496.4	548.1	457.9	340.5	255.3	325.6	454.4	528.5	506.7
74°	335.9	381.4	470.5	521.3	431.6	316.0	231.2	303.7	429.2	505.3	482.1
75°	311.2	356.6	444.3	494.1	404.9	291.6	206.7	277.5	403.6	476.8	457.3
76°	286.6	332.0	417.7	463.2	377.7	267.2	183.8	255.7	377.7	451.6	432.0
77°	262.3	307.5	390.8	436.4	349.4	240.9	161.2	229.8	350.9	421.2	406.3
78°	238.3	283.2	363.4	404.3	320.9	219.2	139.5	205.5	323.5	392.5	379.9
79°	214.7	258.9	334.9	376.0	291.3	193.5	118.4	182.5	295.7	363.0	352.9
80°	191.6	232.5	305.9	335.8	257.6	170.2	98.3	159.9	266.7	329.0	325.1
81°	169.4	209.4	275.2	297.8	208.6	148.0	79.0	138.7	231.8	292.7	297.5
82°	145.9	186.3	242.2	259.6	186.5	125.9	62.3	115.9	198.0	253.2	266.1
83°	125.0	163.6	204.9	220.7	150.5	101.8	45.8	94.7	164.0	208.9	232.6
84°	103.6	139.6	171.1	179.5	117.6	77.3	32.2	70.6	128.2	174.0	196.2
85°	84.6	117.5	137.4	140.5	83.2	53.9	20.7	49.1	94.7	137.6	161.9
86°	67.0	94.0	102.3	99.1	51.9	30.6	10.9	29.2	62.4	97.9	127.6
87°	53.3	71.5	70.5	66.6	28.1	14.5	4.4	12.8	34.6	65.6	93.4
88°	35.7	53.5	41.8	34.7	2.8	1.2	0.0	1.6	9.9	33.7	62.1
89°	23.6	26.9	16.9	1.6	0.0	0.0	0.0	0.0	0.1	4.6	35.6



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	13.7	11.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7



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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	1637.1	1637.1
1°	1636.8	1636.8
2°	1637.1	1637.2
3°	1636.0	1636.6
4°	1634.2	1635.6
5°	1631.8	1634.2
6°	1628.7	1631.2
7°	1624.8	1628.5
8°	1620.5	1624.2
9°	1615.4	1619.0
10°	1609.5	1614.0
11°	1602.5	1608.3
12°	1595.0	1600.9
13°	1588.7	1593.3
14°	1579.2	1585.2
15°	1570.6	1576.5
16°	1559.9	1566.9
17°	1550.8	1556.5
18°	1538.8	1546.1
19°	1527.7	1534.1
20°	1515.4	1522.6
21°	1503.4	1509.5
22°	1490.6	1496.5
23°	1476.9	1482.7
24°	1463.0	1466.2
25°	1448.4	1453.0
26°	1433.4	1436.1
27°	1418.1	1421.2
28°	1401.7	1402.6
29°	1385.7	1387.1
30°	1368.6	1367.6
31°	1351.6	1349.8
32°	1332.5	1331.0
33°	1315.5	1312.0
34°	1295.0	1292.6
35°	1278.3	1272.5
36°	1257.4	1252.4
37°	1237.6	1231.5
38°	1217.2	1210.5
39°	1197.2	1189.1
40°	1176.8	1167.5
41°	1155.8	1145.2
42°	1134.4	1123.1
43°	1113.1	1100.5
44°	1091.3	1075.8



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CANDELA DISTRIBUTION (continued):

	330°	360°
45°	1069.4	1054.9
46°	1047.2	1029.7
47°	1025.0	1006.0
48°	1002.3	982.9
49°	979.6	958.7
50°	956.8	935.0
51°	933.7	911.0
52°	911.0	886.6
53°	885.6	862.5
54°	864.2	838.0
55°	838.9	813.5
56°	817.2	788.9
57°	791.4	763.9
58°	769.8	739.4
59°	743.8	714.5
60°	720.1	689.6
61°	696.1	664.4
62°	672.2	639.8
63°	648.1	612.3
64°	624.1	589.3
65°	600.1	561.8
66°	575.9	539.0
67°	551.8	511.6
68°	527.8	488.7
69°	503.5	461.3
70°	479.3	438.1
71°	455.3	410.8
72°	431.1	385.7
73°	407.0	360.6
74°	383.0	335.9
75°	358.8	311.2
76°	334.6	286.6
77°	310.8	262.3
78°	284.7	238.3
79°	263.1	214.7
80°	237.4	191.6
81°	208.7	169.4
82°	190.6	145.9
83°	168.8	125.0
84°	145.7	103.6
85°	125.4	84.6
86°	102.8	67.0
87°	80.0	53.3
88°	57.1	35.7
89°	35.8	23.6



TEST NUMBER: A1706983A001(120V)

CATALOG NUMBER: 22RTC4835

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	19.6	13.7

(END OF REPORT)