

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: CORELITE

Report Number: 14771B

Luminaire Tested: **SW-WB-2T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14771B
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SW-WB-2T5
Description: DIRECT INDIRECT BAFFLED WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND
WHITE OPAL ACRYLIC LENS
Light Source: TWO OSRAM 54 WATT FLUORESCENT LAMPS
FP54/841/HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

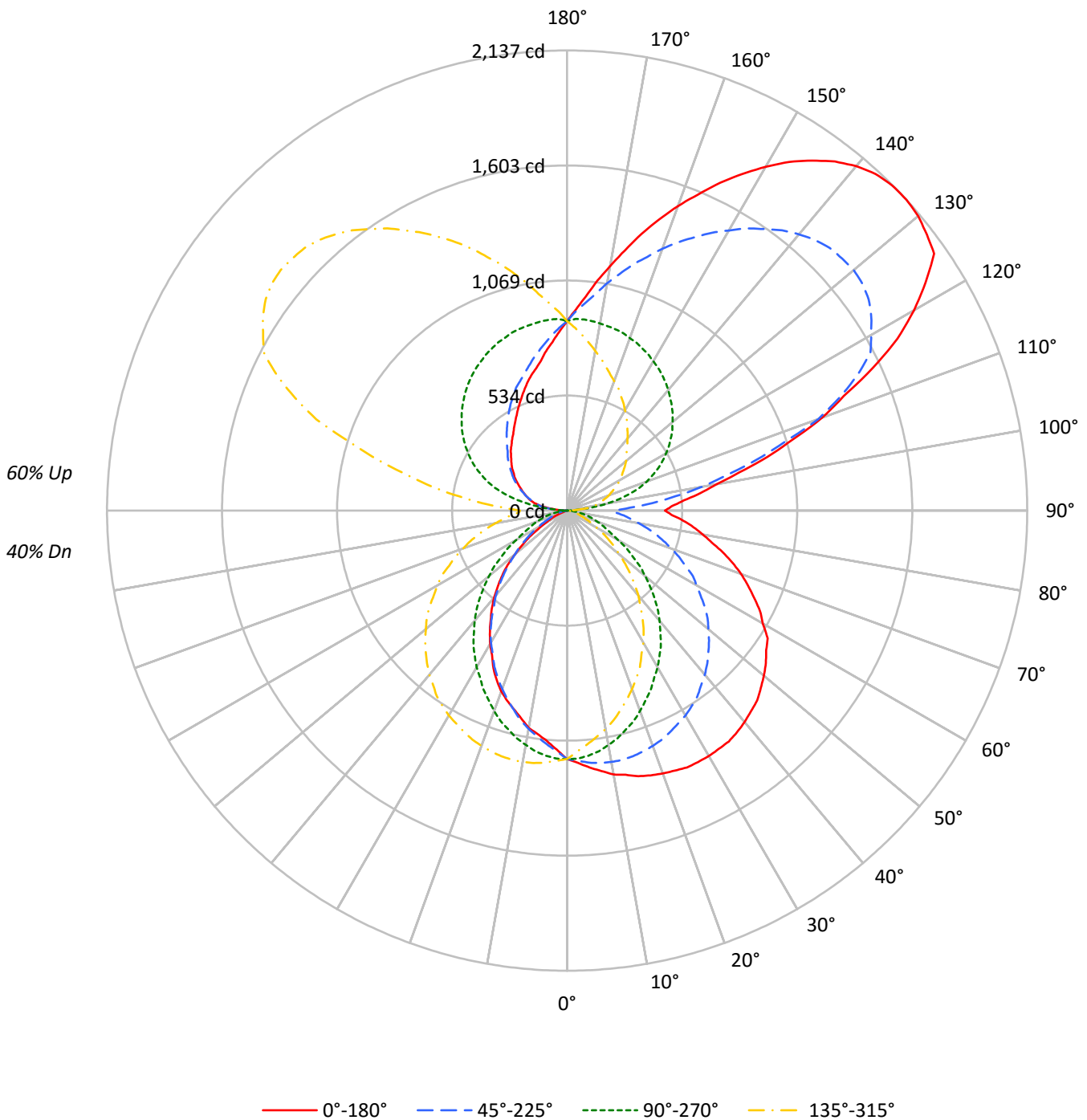
Summary

Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7759.3 lumens
Efficiency: 86.2%
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.1 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4' x H: 0.16')
CIE Type: General Diffuse
Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: 14771B
CATALOG NUMBER: SW-WB-2T5

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	90	90	90	90	82	82	82	82	67	67	67	53	53	53	41	41	41	35
1	82	78	75	71	74	71	68	65	58	56	54	46	45	43	35	34	33	28
2	74	68	63	58	68	62	57	53	51	47	45	40	38	36	31	29	28	23
3	68	60	53	48	61	54	49	45	45	41	37	36	33	30	27	25	24	20
4	62	53	46	41	56	48	42	38	40	35	32	32	29	26	24	22	20	17
5	57	47	40	35	52	43	37	32	35	31	27	28	25	22	22	20	18	15
6	52	42	35	30	47	39	32	28	32	27	24	26	22	20	20	17	16	13
7	48	38	31	26	44	35	29	24	29	24	21	23	20	17	18	16	14	11
8	45	34	28	23	41	32	26	22	26	22	18	21	18	15	17	14	12	10
9	42	31	25	21	38	29	23	19	24	20	16	20	16	14	15	13	11	9
10	39	29	22	18	35	26	21	17	22	18	15	18	15	12	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6210	6210	6210	6210
5°	6447	6002	5782	6002
10°	6755	5716	5561	5716
15°	7041	5404	5265	5404
20°	7335	5080	5045	5080
25°	7673	4744	4718	4744
30°	7996	4408	4346	4408
35°	8365	4074	3955	4074
40°	8714	3695	3588	3695
45°	9130	3300	3121	3300
50°	9533	2862	2518	2862
55°	10018	2388	1892	2388
60°	10566	1881	1181	1881
65°	11234	1501	766	1501
70°	12183	1228	150	1228
75°	13532	981	143	981
80°	16148	649	81	649
85°	22993	302	21	302



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	108.1	1.4	1.2
10°-20°	304.6	3.9	3.4
20°-30°	451.1	5.8	5.0
30°-40°	528.8	6.8	5.9
40°-50°	529.3	6.8	5.9
50°-60°	458.1	5.9	5.1
60°-70°	348.7	4.5	3.9
70°-80°	242.7	3.1	2.7
80°-90°	153.8	2.0	1.7
90°-100°	248.8	3.2	2.8
100°-110°	540.8	7.0	6.0
110°-120°	770.7	9.9	8.6
120°-130°	852.3	11.0	9.5
130°-140°	784.7	10.1	8.7
140°-150°	635.2	8.2	7.1
150°-160°	452.8	5.8	5.0
160°-170°	263.5	3.4	2.9
170°-180°	85.2	1.1	0.9
0°-30°	863.8	11.1	9.6
0°-40°	1392.7	17.9	15.5
0°-60°	2380.1	30.7	26.4
0°-90°	3125.4	40.3	34.7
90°-120°	1560.3	20.1	17.3
90°-150°	3832.5	49.4	42.6
90°-180°	4634.0	59.7	51.5
0°-180°	7759.3	100.0	86.2

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1154	1154	1154	1154	1154	
5°	1198	1142	1074	1142	1198	116
15°	1277	1053	955	1053	1277	362
25°	1316	918	809	918	1316	607
35°	1309	759	619	759	1309	819
45°	1248	572	426	572	1248	961
55°	1129	371	213	371	1129	1012
65°	958	199	65	199	958	949
75°	748	104	8	104	748	790
85°	543	23	0	23	543	462
90°	454	0	0	0	454	258
95°	545	61	45	61	545	480
105°	963	301	171	301	963	1019
115°	1566	467	235	467	1566	1546
125°	2081	588	302	588	2081	1827
135°	2135	687	369	687	2135	1646
145°	1984	769	436	769	1984	1246
155°	1680	829	532	829	1680	780
165°	1329	871	649	871	1329	381
175°	998	891	785	891	998	100
180°	880	880	880	880	880	



TEST NUMBER: 14771B
 CATALOG NUMBER: SW-WB-2T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8
2.5°	1173.2	1182.6	1163.1	1165.8	1152.9	1148.2	1118.5	1128.6	1111.1	1128.6	1118.5
5°	1197.5	1200.2	1175.2	1163.1	1142.1	1125.9	1088.8	1094.2	1074.0	1094.2	1088.8
7.5°	1219.8	1212.4	1182.6	1158.3	1127.3	1098.9	1059.1	1066.5	1046.9	1066.5	1059.1
10°	1244.8	1227.2	1185.4	1145.5	1105.0	1066.5	1029.4	1034.8	1024.7	1034.8	1029.4
12.5°	1256.9	1240.0	1185.4	1133.4	1082.7	1039.5	997.7	1002.4	987.5	1002.4	997.7
15°	1277.2	1244.8	1180.6	1109.1	1053.0	1002.4	957.8	970.0	955.1	970.0	957.8
17.5°	1289.3	1252.2	1173.2	1088.8	1026.0	968.0	920.7	935.6	925.4	935.6	920.7
20°	1299.4	1252.2	1163.1	1066.5	990.2	930.8	881.5	901.1	893.7	901.1	881.5
22.5°	1306.9	1252.2	1150.9	1042.2	953.1	888.3	841.7	861.3	853.9	861.3	841.7
25°	1316.3	1244.8	1133.4	1012.5	918.0	851.8	799.9	816.7	809.3	816.7	799.9
27.5°	1316.3	1240.0	1115.8	987.5	875.1	807.3	747.9	772.2	755.3	772.2	747.9
30°	1316.3	1229.9	1098.9	953.1	840.4	764.7	708.0	725.6	715.5	725.6	708.0
32.5°	1311.6	1217.8	1076.7	920.7	798.5	718.2	660.8	675.6	668.2	675.6	660.8
35°	1308.9	1200.2	1054.4	883.6	759.0	673.6	611.5	626.3	618.9	626.3	611.5
37.5°	1296.7	1182.6	1022.0	846.4	710.7	626.3	557.5	574.4	574.4	574.4	557.5
40°	1281.9	1158.3	995.0	812.0	667.2	574.4	514.9	527.8	527.8	527.8	514.9
42.5°	1264.3	1133.4	962.6	770.1	623.0	529.8	463.0	477.8	475.8	477.8	463.0
45°	1247.5	1109.1	928.1	727.6	572.3	477.8	413.7	428.5	426.5	428.5	413.7
47.5°	1219.8	1076.7	893.7	683.1	522.7	428.5	364.4	381.9	376.5	381.9	364.4
50°	1192.8	1046.9	856.6	639.2	472.1	374.5	315.1	332.0	315.1	332.0	315.1
52.5°	1163.1	1012.5	822.1	596.6	427.5	324.6	278.0	285.4	263.1	285.4	278.0
55°	1128.6	972.7	779.6	547.4	370.8	280.0	233.4	238.1	213.2	238.1	233.4
57.5°	1103.7	935.6	735.0	502.8	328.3	230.7	199.0	188.9	159.2	188.9	199.0
60°	1049.6	891.0	693.2	455.5	271.6	188.9	156.5	149.0	117.3	149.0	156.5
62.5°	1009.8	846.4	658.8	406.3	232.1	156.5	132.2	119.3	92.3	119.3	132.2
65°	957.8	799.9	604.1	357.0	198.7	129.4	99.7	97.0	65.3	97.0	99.7
67.5°	908.5	752.6	562.2	309.7	174.0	104.5	82.2	72.7	40.3	72.7	82.2
70°	859.3	705.3	514.9	270.6	146.7	84.9	65.3	65.3	10.6	65.3	65.3
72.5°	804.6	648.6	470.4	226.0	123.0	62.6	52.5	50.5	10.6	50.5	52.5
75°	747.9	602.0	426.5	196.3	103.5	47.8	37.6	43.0	7.9	43.0	37.6
77.5°	688.5	544.7	381.9	169.3	81.2	32.9	30.2	30.2	3.2	30.2	30.2
80°	639.2	505.5	337.4	144.3	58.9	20.8	22.8	25.5	3.2	25.5	22.8
82.5°	591.9	458.2	297.6	124.7	39.0	10.6	15.4	20.8	0.5	20.8	15.4
85°	542.6	421.1	265.2	102.4	22.8	5.9	7.9	18.1	0.5	18.1	7.9
87.5°	487.9	376.5	226.0	84.9	5.9	3.2	3.2	10.6	0.5	10.6	3.2
90°	453.5	389.4	218.6	91.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	487.9	448.1	290.1	191.6	20.4	18.1	22.8	3.2	5.9	3.2	22.8
95°	544.7	529.8	396.8	300.3	61.3	65.3	62.6	37.6	45.1	37.6	62.6
97.5°	624.3	626.3	507.5	433.9	124.4	87.6	107.2	77.5	84.9	77.5	107.2
100°	703.3	799.9	636.5	675.6	188.9	107.2	129.4	119.3	124.7	119.3	129.4
102.5°	819.4	868.7	757.3	733.0	248.3	122.0	147.0	134.2	151.7	134.2	147.0
105°	962.6	999.7	908.5	839.0	301.3	151.7	163.9	166.6	171.3	166.6	163.9
107.5°	1098.9	1148.2	1059.1	905.8	350.9	174.0	186.2	181.4	188.9	181.4	186.2
110°	1259.6	1286.6	1240.0	975.4	394.1	191.6	206.4	196.3	203.7	196.3	206.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1390.6	1447.3	1368.3	1039.5	429.9	215.9	223.3	215.9	220.6	215.9	223.3
115°	1566.1	1608.0	1487.1	1091.5	467.0	238.1	242.9	230.7	235.4	230.7	242.9
117.5°	1729.5	1736.9	1588.4	1133.4	500.1	260.4	263.1	250.3	253.0	250.3	263.1
120°	1860.5	1860.5	1630.3	1167.8	529.8	287.4	282.7	272.6	270.6	272.6	282.7
122.5°	1974.6	1979.3	1674.8	1202.9	560.9	309.7	300.3	285.4	290.1	285.4	300.3
125°	2080.6	1994.2	1709.9	1207.6	588.2	324.6	317.1	294.9	302.3	294.9	317.1
127.5°	2105.6	2018.5	1729.5	1219.8	615.5	371.8	337.4	322.5	322.5	322.5	337.4
130°	2127.8	2036.0	1736.9	1222.5	638.8	398.8	357.0	337.4	337.4	337.4	357.0
132.5°	2137.3	2043.4	1732.2	1219.8	664.8	431.2	374.5	352.2	352.2	352.2	374.5
135°	2135.3	2033.3	1724.8	1217.8	687.1	458.2	391.4	369.1	369.1	369.1	391.4
137.5°	2120.4	2006.3	1704.5	1212.4	709.0	485.2	413.7	384.0	386.7	384.0	413.7
140°	2088.0	1971.9	1674.8	1200.2	730.3	517.6	436.0	404.2	401.5	404.2	436.0
142.5°	2043.4	1922.6	1640.4	1188.1	750.2	542.6	460.9	419.1	419.1	419.1	460.9
145°	1984.0	1835.5	1595.8	1167.8	768.8	572.3	485.2	438.7	436.0	438.7	485.2
147.5°	1919.9	1798.4	1554.0	1160.4	786.0	581.8	512.9	448.1	458.2	448.1	512.9
150°	1842.9	1732.2	1502.0	1143.5	799.9	616.9	537.2	485.2	480.5	485.2	537.2
152.5°	1761.9	1662.7	1454.7	1125.9	817.1	641.2	564.9	510.2	505.5	510.2	564.9
155°	1680.2	1583.7	1400.7	1106.4	829.2	666.2	589.2	535.2	532.5	535.2	589.2
157.5°	1588.4	1506.7	1348.7	1086.8	843.1	688.5	618.9	564.9	559.5	564.9	618.9
160°	1504.7	1423.0	1294.0	1064.5	851.5	712.8	639.2	591.9	589.2	591.9	639.2
162.5°	1415.6	1348.7	1234.6	1042.2	864.0	737.7	663.5	621.6	618.9	621.6	663.5
165°	1329.2	1267.0	1182.6	1019.9	871.4	757.3	693.2	648.6	648.6	648.6	693.2
167.5°	1237.3	1148.2	1125.9	984.8	876.5	782.3	722.9	681.0	673.6	681.0	722.9
170°	1152.9	1113.8	1071.9	972.7	882.2	789.7	752.6	693.2	705.3	693.2	752.6
172.5°	1076.7	1039.5	1014.5	950.4	887.3	824.2	785.0	747.9	747.9	747.9	785.0
175°	997.7	972.7	968.0	928.1	891.0	841.7	816.7	787.0	785.0	787.0	816.7
177.5°	935.6	916.0	925.4	903.1	891.0	866.7	849.1	822.1	831.6	822.1	849.1
180°	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8



TEST NUMBER: 14771B
 CATALOG NUMBER: SW-WB-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8
2.5°	1148.2	1152.9	1165.8	1163.1	1182.6	1173.2
5°	1125.9	1142.1	1163.1	1175.2	1200.2	1197.5
7.5°	1098.9	1127.3	1158.3	1182.6	1212.4	1219.8
10°	1066.5	1105.0	1145.5	1185.4	1227.2	1244.8
12.5°	1039.5	1082.7	1133.4	1185.4	1240.0	1256.9
15°	1002.4	1053.0	1109.1	1180.6	1244.8	1277.2
17.5°	968.0	1026.0	1088.8	1173.2	1252.2	1289.3
20°	930.8	990.2	1066.5	1163.1	1252.2	1299.4
22.5°	888.3	953.1	1042.2	1150.9	1252.2	1306.9
25°	851.8	918.0	1012.5	1133.4	1244.8	1316.3
27.5°	807.3	875.1	987.5	1115.8	1240.0	1316.3
30°	764.7	840.4	953.1	1098.9	1229.9	1316.3
32.5°	718.2	798.5	920.7	1076.7	1217.8	1311.6
35°	673.6	759.0	883.6	1054.4	1200.2	1308.9
37.5°	626.3	710.7	846.4	1022.0	1182.6	1296.7
40°	574.4	667.2	812.0	995.0	1158.3	1281.9
42.5°	529.8	623.0	770.1	962.6	1133.4	1264.3
45°	477.8	572.3	727.6	928.1	1109.1	1247.5
47.5°	428.5	522.7	683.1	893.7	1076.7	1219.8
50°	374.5	472.1	639.2	856.6	1046.9	1192.8
52.5°	324.6	427.5	596.6	822.1	1012.5	1163.1
55°	280.0	370.8	547.4	779.6	972.7	1128.6
57.5°	230.7	328.3	502.8	735.0	935.6	1103.7
60°	188.9	271.6	455.5	693.2	891.0	1049.6
62.5°	156.5	232.1	406.3	658.8	846.4	1009.8
65°	129.4	198.7	357.0	604.1	799.9	957.8
67.5°	104.5	174.0	309.7	562.2	752.6	908.5
70°	84.9	146.7	270.6	514.9	705.3	859.3
72.5°	62.6	123.0	226.0	470.4	648.6	804.6
75°	47.8	103.5	196.3	426.5	602.0	747.9
77.5°	32.9	81.2	169.3	381.9	544.7	688.5
80°	20.8	58.9	144.3	337.4	505.5	639.2
82.5°	10.6	39.0	124.7	297.6	458.2	591.9
85°	5.9	22.8	102.4	265.2	421.1	542.6
87.5°	3.2	5.9	84.9	226.0	376.5	487.9
90°	0.5	0.5	91.0	218.6	389.4	453.5
92.5°	18.1	20.4	191.6	290.1	448.1	487.9
95°	65.3	61.3	300.3	396.8	529.8	544.7
97.5°	87.6	124.4	433.9	507.5	626.3	624.3
100°	107.2	188.9	675.6	636.5	799.9	703.3
102.5°	122.0	248.3	733.0	757.3	868.7	819.4
105°	151.7	301.3	839.0	908.5	999.7	962.6
107.5°	174.0	350.9	905.8	1059.1	1148.2	1098.9
110°	191.6	394.1	975.4	1240.0	1286.6	1259.6



TEST NUMBER: 14771B
 CATALOG NUMBER: SW-WB-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	215.9	429.9	1039.5	1368.3	1447.3	1390.6
115°	238.1	467.0	1091.5	1487.1	1608.0	1566.1
117.5°	260.4	500.1	1133.4	1588.4	1736.9	1729.5
120°	287.4	529.8	1167.8	1630.3	1860.5	1860.5
122.5°	309.7	560.9	1202.9	1674.8	1979.3	1974.6
125°	324.6	588.2	1207.6	1709.9	1994.2	2080.6
127.5°	371.8	615.5	1219.8	1729.5	2018.5	2105.6
130°	398.8	638.8	1222.5	1736.9	2036.0	2127.8
132.5°	431.2	664.8	1219.8	1732.2	2043.4	2137.3
135°	458.2	687.1	1217.8	1724.8	2033.3	2135.3
137.5°	485.2	709.0	1212.4	1704.5	2006.3	2120.4
140°	517.6	730.3	1200.2	1674.8	1971.9	2088.0
142.5°	542.6	750.2	1188.1	1640.4	1922.6	2043.4
145°	572.3	768.8	1167.8	1595.8	1835.5	1984.0
147.5°	581.8	786.0	1160.4	1554.0	1798.4	1919.9
150°	616.9	799.9	1143.5	1502.0	1732.2	1842.9
152.5°	641.2	817.1	1125.9	1454.7	1662.7	1761.9
155°	666.2	829.2	1106.4	1400.7	1583.7	1680.2
157.5°	688.5	843.1	1086.8	1348.7	1506.7	1588.4
160°	712.8	851.5	1064.5	1294.0	1423.0	1504.7
162.5°	737.7	864.0	1042.2	1234.6	1348.7	1415.6
165°	757.3	871.4	1019.9	1182.6	1267.0	1329.2
167.5°	782.3	876.5	984.8	1125.9	1148.2	1237.3
170°	789.7	882.2	972.7	1071.9	1113.8	1152.9
172.5°	824.2	887.3	950.4	1014.5	1039.5	1076.7
175°	841.7	891.0	928.1	968.0	972.7	997.7
177.5°	866.7	891.0	903.1	925.4	916.0	935.6
180°	879.8	879.8	879.8	879.8	879.8	879.8

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