

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: 17908

Luminaire Tested: **E2W-WB-2T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17908
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2W-WB-2T5
Description: DIRECT/INDIRECT WALL LUMINAIRE - ELEMENT WALL
WITH WHITE INTERIOR AND 19 CELL SEMI-SPECULAR LOUVER BLADE

Light Source: TWO PHILIPS 54 WATT T5 LAMPS

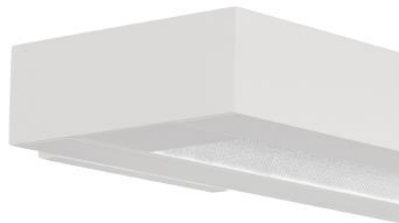
F54T5/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

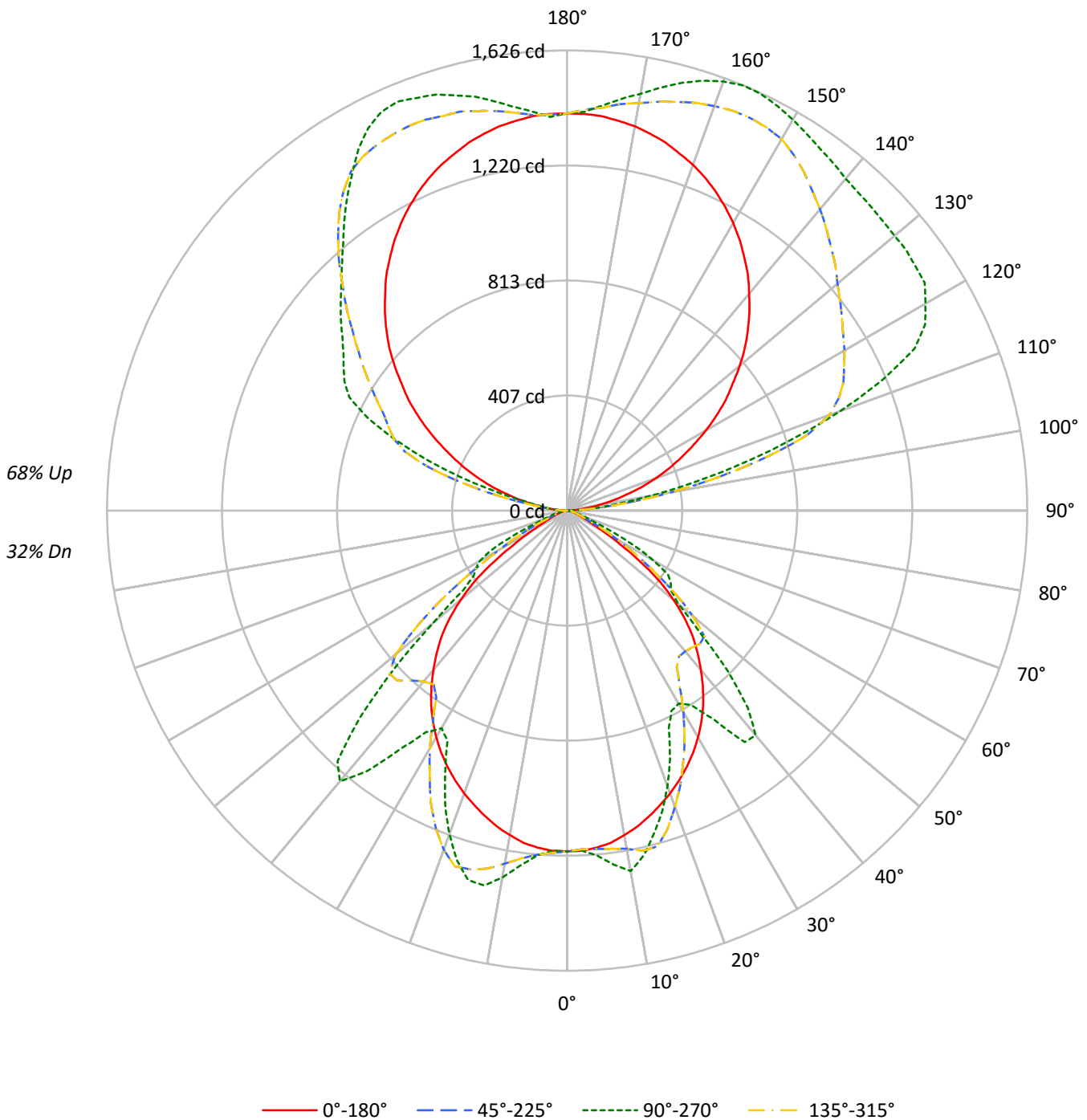
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 8045.1 lumens
Efficiency: 89.4%
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.04 / 1.32
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 121
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: 17908
CATALOG NUMBER: E2W-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	50	30	10	0	
RCR																						
0	92	92	92	92	83	83	83	83	66	66	66	50	50	50	35	35	35	29				
1	84	81	78	75	76	73	70	68	58	57	55	45	44	43	32	32	31	25				
2	77	71	66	62	69	64	60	57	52	49	46	40	38	36	29	28	27	22				
3	71	63	57	52	64	57	52	48	46	42	40	36	33	31	26	25	24	19				
4	65	56	49	45	58	51	45	41	41	37	34	32	29	27	24	22	21	17				
5	60	50	43	38	54	45	40	35	37	33	29	29	26	24	21	20	18	15				
6	55	45	38	33	49	41	35	31	33	29	26	26	23	21	20	18	16	13				
7	51	40	34	29	46	37	31	27	30	26	23	24	21	19	18	16	14	12				
8	47	37	30	26	42	34	28	24	27	23	20	22	19	17	16	14	13	11				
9	44	33	27	23	40	31	25	21	25	21	18	20	17	15	15	13	12	10				
10	41	31	25	20	37	28	23	19	23	19	16	18	16	13	14	12	11	9				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16408	16408	16408	16408
5°	16353	16741	16353	16741
10°	16115	17894	16115	18212
15°	15784	16683	15784	19072
20°	15423	15027	15423	17636
25°	15029	12771	15029	15317
30°	14555	12396	14555	13971
35°	13939	14945	13939	17110
40°	13080	18433	13080	22219
45°	12094	15479	12094	19970
50°	10425	10826	10425	13067
55°	7544	10619	7544	9590
60°	4075	9589	4075	9742
65°	2183	5408	2183	6808
70°	1622	2698	1622	3311
75°	1185	1943	1185	2349
80°	1052	1687	1052	1852
85°	954	1720	954	1720



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	116.7	1.5	1.3
10°-20°	343.5	4.3	3.8
20°-30°	471.3	5.9	5.2
30°-40°	543.4	6.8	6.0
40°-50°	572.6	7.1	6.4
50°-60°	350.6	4.4	3.9
60°-70°	126.7	1.6	1.4
70°-80°	33.8	0.4	0.4
80°-90°	9.2	0.1	0.1
90°-100°	99.7	1.2	1.1
100°-110°	516.3	6.4	5.7
110°-120°	872.2	10.8	9.7
120°-130°	940.2	11.7	10.4
130°-140°	935.9	11.6	10.4
140°-150°	868.1	10.8	9.6
150°-160°	688.7	8.6	7.7
160°-170°	419.6	5.2	4.7
170°-180°	136.5	1.7	1.5
0°-30°	931.5	11.6	10.4
0°-40°	1475.0	18.3	16.4
0°-60°	2398.2	29.8	26.6
0°-90°	2567.9	31.9	28.5
90°-120°	1488.2	18.5	16.5
90°-150°	4232.3	52.6	47.0
90°-180°	5477.0	68.1	60.9
0°-180°	8045.1	100.0	89.4

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1204	1204	1204	1204	1204	
5°	1195	1224	1195	1224	1195	113
15°	1119	1182	1119	1352	1119	315
25°	999	849	999	1019	999	460
35°	838	898	838	1028	838	522
45°	628	803	628	1036	628	478
55°	318	447	318	404	318	283
65°	68	168	68	211	68	76
75°	22	37	22	45	22	25
85°	6	11	6	11	6	7
90°	0	0	0	0	0	2
95°	40	103	40	47	40	49
105°	216	637	216	265	216	232
115°	446	1354	446	780	446	442
125°	685	1503	685	965	685	610
135°	903	1518	903	1128	903	696
145°	1091	1560	1091	1354	1091	683
155°	1243	1623	1243	1554	1243	572
165°	1345	1564	1345	1518	1345	379
175°	1399	1436	1399	1415	1399	133
180°	1403	1403	1403	1403	1403	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9
2.5°	1203.0	1202.7	1197.8	1200.6	1202.7	1200.6	1197.8	1202.7	1203.0	1210.4	1210.4
5°	1195.3	1192.9	1200.6	1213.2	1223.7	1213.2	1200.6	1192.9	1195.3	1216.0	1220.9
7.5°	1183.8	1185.2	1205.5	1231.4	1262.2	1231.4	1205.5	1185.2	1183.8	1213.2	1239.1
10°	1164.5	1167.0	1213.2	1267.1	1293.0	1267.1	1213.2	1167.0	1164.5	1210.4	1267.1
12.5°	1143.9	1159.3	1231.4	1279.7	1248.9	1279.7	1231.4	1159.3	1143.9	1205.5	1295.1
15°	1118.7	1136.2	1228.6	1223.7	1182.4	1223.7	1228.6	1136.2	1118.7	1205.5	1313.2
17.5°	1091.4	1123.6	1179.6	1167.0	1115.9	1167.0	1179.6	1123.6	1091.4	1200.6	1318.1
20°	1063.4	1111.0	1113.1	1085.1	1036.1	1085.1	1113.1	1111.0	1063.4	1187.3	1274.8
22.5°	1032.6	1092.8	1046.6	1003.3	949.4	1003.3	1046.6	1092.8	1032.6	1177.5	1213.2
25°	999.4	1077.4	972.5	915.8	849.3	915.8	972.5	1077.4	999.4	1159.3	1139.0
27.5°	964.4	1043.8	898.3	813.6	798.2	813.6	898.3	1043.8	964.4	1131.3	1051.5
30°	924.9	992.8	821.3	761.8	787.7	761.8	821.3	992.8	924.9	1090.0	969.7
32.5°	882.5	928.4	741.5	744.3	813.6	744.3	741.5	928.4	882.5	1020.7	882.9
35°	837.8	869.6	675.1	756.9	898.3	756.9	675.1	869.6	837.8	959.2	805.9
37.5°	787.7	790.5	649.2	818.5	1031.2	818.5	649.2	790.5	787.7	880.1	775.1
40°	735.2	721.3	649.2	910.9	1036.1	910.9	649.2	721.3	735.2	805.9	787.7
42.5°	681.4	641.5	654.8	923.5	943.8	923.5	654.8	641.5	681.4	726.1	813.6
45°	627.5	570.1	664.6	836.7	803.1	836.7	664.6	570.1	627.5	647.1	849.3
47.5°	562.1	505.7	656.9	705.9	633.8	705.9	656.9	505.7	562.1	577.8	852.1
50°	491.7	442.0	579.9	556.8	510.6	556.8	579.9	442.0	491.7	518.3	790.5
52.5°	413.7	385.4	479.8	446.9	462.3	446.9	479.8	385.4	413.7	456.7	664.6
55°	317.5	323.8	374.9	388.2	446.9	388.2	374.9	323.8	317.5	380.5	523.9
57.5°	222.3	251.7	280.4	357.4	423.9	357.4	280.4	251.7	222.3	297.9	385.4
60°	149.5	162.1	200.6	316.1	351.8	316.1	200.6	162.1	149.5	195.7	272.7
62.5°	97.1	100.6	139.1	244.0	265.0	244.0	139.1	100.6	97.1	123.7	192.9
65°	67.7	69.8	88.0	160.0	167.7	160.0	88.0	69.8	67.7	80.3	126.5
67.5°	50.9	49.5	60.0	98.5	103.4	98.5	60.0	49.5	50.9	57.2	77.5
70°	40.7	39.0	46.7	64.9	67.7	64.9	46.7	39.0	40.7	44.6	54.4
72.5°	30.2	29.2	36.9	46.7	49.5	46.7	36.9	29.2	30.2	34.1	39.0
75°	22.5	23.6	26.4	36.9	36.9	36.9	26.4	23.6	22.5	23.6	34.1
77.5°	13.8	21.5	21.5	26.4	29.2	26.4	21.5	21.5	13.8	18.7	26.4
80°	13.4	13.8	15.9	21.5	21.5	21.5	15.9	13.8	13.4	18.7	21.5
82.5°	9.6	11.0	11.0	13.8	13.8	13.8	11.0	11.0	9.6	8.2	13.8
85°	6.1	6.1	6.1	11.0	11.0	11.0	6.1	6.1	6.1	8.2	8.2
87.5°	3.3	3.3	6.1	3.3	6.1	3.3	6.1	3.3	3.3	0.5	6.1
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	11.0	54.4	31.3	52.3	26.4	52.3	31.3	54.4	11.0	8.2	18.7
95°	40.4	126.5	106.2	121.6	103.4	121.6	106.2	126.5	40.4	36.9	49.5
97.5°	76.4	269.9	220.9	220.9	169.8	220.9	220.9	269.9	76.4	67.7	83.1
100°	117.7	518.3	372.8	462.3	297.9	462.3	372.8	518.3	117.7	113.9	146.7
102.5°	163.5	605.8	547.0	554.7	454.6	554.7	547.0	605.8	163.5	160.0	267.1
105°	216.0	784.9	728.9	741.5	636.6	741.5	728.9	784.9	216.0	349.7	390.3
107.5°	275.2	934.0	890.6	943.8	829.0	943.8	890.6	934.0	275.2	477.7	518.3
110°	331.5	1008.2	985.1	1123.6	1026.3	1123.6	985.1	1008.2	331.5	582.7	610.7



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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°	389.2	1051.5	1038.9	1256.6	1205.5	1256.6	1038.9	1051.5	389.2	647.1	662.5
115°	445.5	1090.0	1077.4	1323.7	1354.5	1323.7	1077.4	1090.0	445.5	687.7	695.4
117.5°	504.3	1111.0	1103.3	1362.2	1425.9	1362.2	1103.3	1111.0	504.3	721.3	728.9
120°	565.9	1139.0	1131.3	1400.0	1461.6	1400.0	1131.3	1139.0	565.9	759.7	775.1
122.5°	626.1	1182.4	1156.5	1415.4	1498.0	1415.4	1156.5	1182.4	626.1	815.7	823.4
125°	685.2	1197.8	1185.2	1418.2	1502.9	1418.2	1185.2	1197.8	685.2	836.7	877.3
127.5°	737.7	1228.6	1216.0	1430.8	1510.6	1430.8	1216.0	1228.6	737.7	918.6	931.2
130°	795.4	1262.2	1246.8	1436.4	1510.6	1436.4	1246.8	1262.2	795.4	972.5	990.0
132.5°	852.1	1297.9	1285.3	1449.0	1513.4	1449.0	1285.3	1297.9	852.1	1036.1	1057.1
135°	903.2	1331.4	1318.1	1461.6	1518.3	1461.6	1318.1	1331.4	903.2	1108.2	1120.8
137.5°	952.9	1364.3	1354.5	1479.8	1523.2	1479.8	1354.5	1364.3	952.9	1171.9	1192.9
140°	1000.5	1402.8	1390.2	1498.0	1530.9	1498.0	1390.2	1402.8	1000.5	1246.8	1259.4
142.5°	1049.4	1436.4	1423.1	1521.1	1546.3	1521.1	1423.1	1436.4	1049.4	1305.5	1323.7
145°	1091.4	1492.4	1459.5	1554.0	1559.6	1554.0	1459.5	1492.4	1091.4	1362.2	1377.6
147.5°	1134.1	1500.1	1490.3	1564.5	1577.1	1564.5	1490.3	1500.1	1134.1	1384.6	1421.0
150°	1173.3	1521.1	1515.5	1584.8	1595.2	1584.8	1515.5	1521.1	1173.3	1433.6	1444.1
152.5°	1209.3	1526.0	1526.0	1605.7	1610.6	1605.7	1526.0	1526.0	1209.3	1453.9	1456.7
155°	1242.6	1528.8	1530.9	1613.4	1623.2	1613.4	1530.9	1528.8	1242.6	1459.5	1464.4
157.5°	1273.4	1526.0	1528.8	1607.8	1626.0	1607.8	1528.8	1526.0	1273.4	1464.4	1469.3
160°	1300.3	1518.3	1521.1	1592.4	1613.4	1592.4	1521.1	1518.3	1300.3	1464.4	1469.3
162.5°	1322.3	1505.7	1510.6	1569.4	1592.4	1569.4	1510.6	1505.7	1322.3	1461.6	1461.6
165°	1345.4	1492.4	1495.2	1546.3	1564.5	1546.3	1495.2	1492.4	1345.4	1456.7	1459.5
167.5°	1363.3	1464.4	1479.8	1498.0	1530.9	1498.0	1479.8	1464.4	1363.3	1451.8	1446.2
170°	1378.7	1459.5	1461.6	1487.5	1495.2	1487.5	1461.6	1459.5	1378.7	1441.3	1433.6
172.5°	1388.8	1441.3	1449.0	1459.5	1467.2	1459.5	1449.0	1441.3	1388.8	1421.0	1418.2
175°	1399.0	1423.1	1428.7	1436.4	1436.4	1436.4	1428.7	1423.1	1399.0	1410.5	1402.8
177.5°	1402.8	1413.3	1418.2	1413.3	1410.5	1413.3	1418.2	1413.3	1402.8	1397.9	1400.0
180°	1403.4	1403.4	1403.4	1403.4	1403.4	1403.4	1403.4	1403.4	1403.4	1403.4	1403.4



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9
2.5°	1216.0	1202.7	1216.0	1210.4	1210.4	1203.0
5°	1241.2	1223.7	1241.2	1220.9	1216.0	1195.3
7.5°	1279.7	1264.3	1279.7	1239.1	1213.2	1183.8
10°	1325.8	1316.0	1325.8	1267.1	1210.4	1164.5
12.5°	1362.2	1356.6	1362.2	1295.1	1205.5	1143.9
15°	1346.8	1351.7	1346.8	1313.2	1205.5	1118.7
17.5°	1287.4	1295.1	1287.4	1318.1	1200.6	1091.4
20°	1210.4	1216.0	1210.4	1274.8	1187.3	1063.4
22.5°	1120.8	1126.4	1120.8	1213.2	1177.5	1032.6
25°	1015.8	1018.6	1015.8	1139.0	1159.3	999.4
27.5°	906.0	915.8	906.0	1051.5	1131.3	964.4
30°	861.9	887.8	861.9	969.7	1090.0	924.9
32.5°	887.8	928.4	887.8	882.9	1020.7	882.5
35°	949.4	1028.4	949.4	805.9	959.2	837.8
37.5°	1059.2	1159.3	1059.2	775.1	880.1	787.7
40°	1134.1	1248.9	1134.1	787.7	805.9	735.2
42.5°	1113.1	1200.6	1113.1	813.6	726.1	681.4
45°	972.5	1036.1	972.5	849.3	647.1	627.5
47.5°	784.9	833.9	784.9	852.1	577.8	562.1
50°	570.1	616.3	570.1	790.5	518.3	491.7
52.5°	439.2	462.3	439.2	664.6	456.7	413.7
55°	367.2	403.6	367.2	523.9	380.5	317.5
57.5°	328.7	382.6	328.7	385.4	297.9	222.3
60°	288.1	357.4	288.1	272.7	195.7	149.5
62.5°	226.5	300.7	226.5	192.9	123.7	97.1
65°	146.7	211.1	146.7	126.5	80.3	67.7
67.5°	95.7	129.3	95.7	77.5	57.2	50.9
70°	62.1	83.1	62.1	54.4	44.6	40.7
72.5°	44.6	62.1	44.6	39.0	34.1	30.2
75°	31.3	44.6	31.3	34.1	23.6	22.5
77.5°	26.4	31.3	26.4	26.4	18.7	13.8
80°	18.7	23.6	18.7	21.5	18.7	13.4
82.5°	15.9	13.8	15.9	13.8	8.2	9.6
85°	8.2	11.0	8.2	8.2	8.2	6.1
87.5°	3.3	8.2	3.3	6.1	0.5	3.3
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	3.3	13.8	3.3	18.7	8.2	11.0
95°	36.9	46.7	36.9	49.5	36.9	40.4
97.5°	64.9	75.4	64.9	83.1	67.7	76.4
100°	95.7	103.4	95.7	146.7	113.9	117.7
102.5°	113.9	157.2	113.9	267.1	160.0	163.5
105°	262.2	265.0	262.2	390.3	349.7	216.0
107.5°	395.9	398.0	395.9	518.3	477.7	275.2
110°	526.0	531.6	526.0	610.7	582.7	331.5



TEST NUMBER: 17908
 CATALOG NUMBER: E2W-WB-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	656.9	659.7	656.9	662.5	647.1	389.2
115°	752.0	780.0	752.0	695.4	687.7	445.5
117.5°	826.2	867.5	826.2	728.9	721.3	504.3
120°	869.6	908.1	869.6	775.1	759.7	565.9
122.5°	898.3	936.1	898.3	823.4	815.7	626.1
125°	910.9	964.8	910.9	877.3	836.7	685.2
127.5°	966.9	1000.5	966.9	931.2	918.6	737.7
130°	1018.6	1043.8	1018.6	990.0	972.5	795.4
132.5°	1062.0	1085.1	1062.0	1057.1	1036.1	852.1
135°	1111.0	1128.5	1111.0	1120.8	1108.2	903.2
137.5°	1162.1	1177.5	1162.1	1192.9	1171.9	952.9
140°	1223.7	1231.4	1223.7	1259.4	1246.8	1000.5
142.5°	1287.4	1293.0	1287.4	1323.7	1305.5	1049.4
145°	1348.9	1354.5	1348.9	1377.6	1362.2	1091.4
147.5°	1379.7	1413.3	1379.7	1421.0	1384.6	1134.1
150°	1464.4	1474.9	1464.4	1444.1	1433.6	1173.3
152.5°	1510.6	1523.2	1510.6	1456.7	1453.9	1209.3
155°	1533.7	1554.0	1533.7	1464.4	1459.5	1242.6
157.5°	1538.6	1564.5	1538.6	1469.3	1464.4	1273.4
160°	1536.5	1551.9	1536.5	1469.3	1464.4	1300.3
162.5°	1526.0	1541.4	1526.0	1461.6	1461.6	1322.3
165°	1513.4	1518.3	1513.4	1459.5	1456.7	1345.4
167.5°	1495.2	1498.0	1495.2	1446.2	1451.8	1363.3
170°	1482.6	1467.2	1482.6	1433.6	1441.3	1378.7
172.5°	1446.2	1438.5	1446.2	1418.2	1421.0	1388.8
175°	1423.1	1415.4	1423.1	1402.8	1410.5	1399.0
177.5°	1405.6	1392.3	1405.6	1400.0	1397.9	1402.8
180°	1403.4	1403.4	1403.4	1403.4	1403.4	1403.4

(END OF REPORT)