

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: 17909

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

Issue Date: 3/3/2020

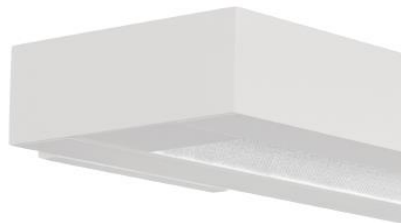
**Test Information**

Test Method: LM-41-14  
Report Number: 17909  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2W-WH-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**

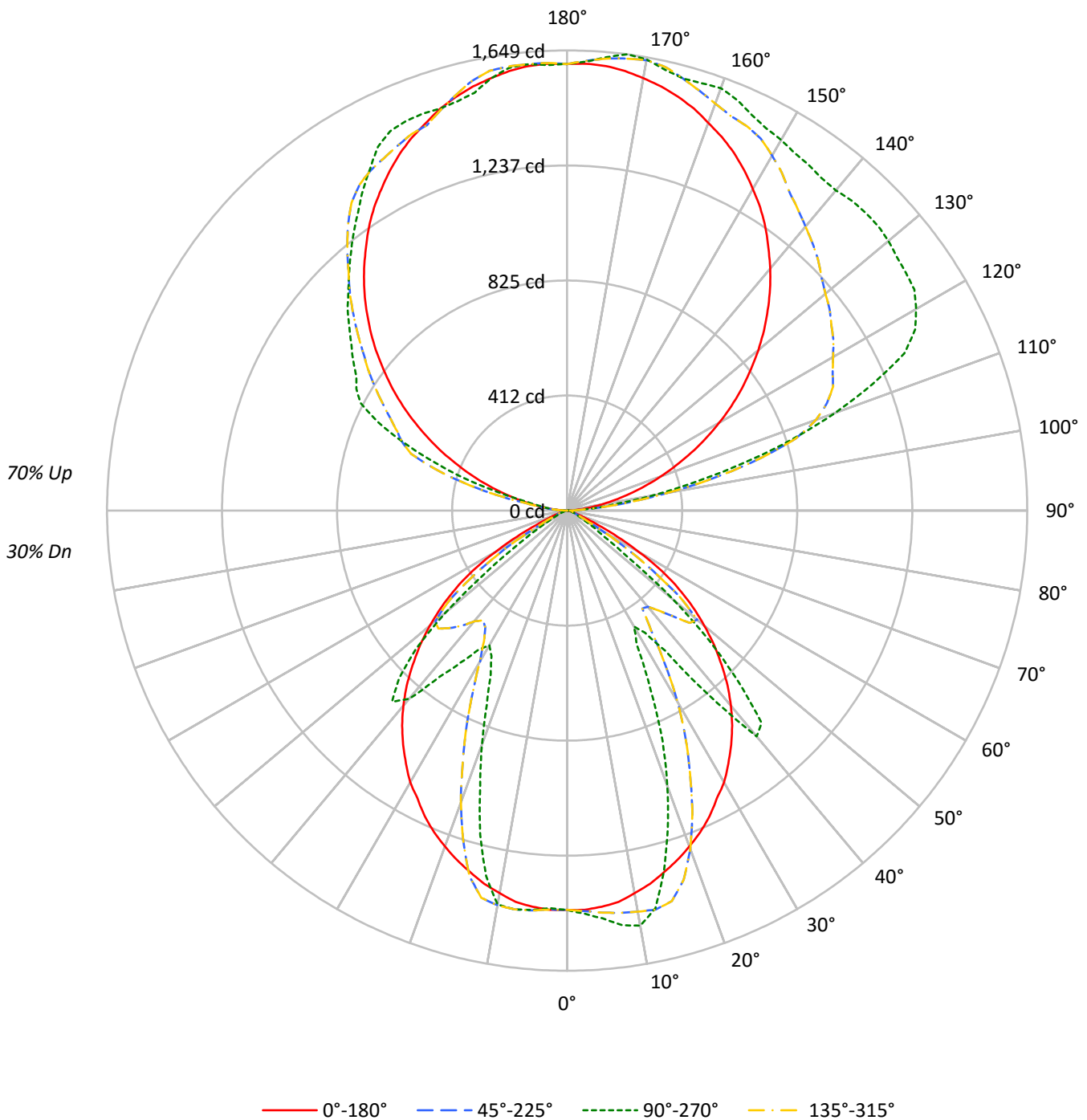
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 7763.9 lumens  
Efficiency: 86.3%  
Efficacy: 64.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 0.78 / 0.91  
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 17909  
CATALOG NUMBER: E2W-WH-2T5

### Luminous Intensity Polar Plot





TEST NUMBER: 17909  
 CATALOG NUMBER: E2W-WH-2T5

**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	88	88	88	88	79	79	79	79	62	62	62	47	47	47	32	32	32	26				
1	81	78	75	72	73	70	68	65	55	54	52	42	41	40	30	29	29	23				
2	74	69	64	60	67	62	58	55	49	47	44	38	36	35	27	26	25	20				
3	68	61	55	51	61	55	50	46	44	41	38	34	32	30	24	23	22	18				
4	63	54	48	43	56	49	44	40	39	36	33	31	28	26	22	21	20	16				
5	58	48	42	37	52	44	38	34	35	32	29	28	25	23	20	19	17	14				
6	53	44	37	32	48	40	34	30	32	28	25	25	22	20	19	17	16	13				
7	49	39	33	29	44	36	30	26	29	25	22	23	20	18	17	15	14	12				
8	46	36	30	25	41	33	27	23	27	23	20	21	18	16	16	14	13	11				
9	43	33	27	23	38	30	25	21	24	21	18	19	17	15	15	13	12	10				
10	40	30	24	20	36	27	22	19	23	19	16	18	15	13	14	12	11	9				

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

	0°	90°	180°	270°
0°	19504	19504	19504	19504
5°	19494	20072	19494	19651
10°	19268	20905	19268	19839
15°	18929	18894	18929	16969
20°	18580	15220	18580	12947
25°	18170	10647	18170	9731
30°	17704	7551	17704	8762
35°	17047	10207	17047	11057
40°	16248	18807	16248	15658
45°	15088	16720	15088	16423
50°	13608	10559	13608	12028
55°	11583	3735	11583	5432
60°	8158	2055	8158	2265
65°	3989	1348	3989	1190
70°	1761	1164	1761	857
75°	1185	985	1185	579
80°	973	1248	973	863
85°	1329	1282	1329	954



TEST NUMBER: 17909  
 CATALOG NUMBER: E2W-WH-2T5

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	137.6	1.8	1.5
10°-20°	373.8	4.8	4.2
20°-30°	444.0	5.7	4.9
30°-40°	450.0	5.8	5.0
40°-50°	513.5	6.6	5.7
50°-60°	294.5	3.8	3.3
60°-70°	76.8	1.0	0.9
70°-80°	21.4	0.3	0.2
80°-90°	7.9	0.1	0.1
90°-100°	99.3	1.3	1.1
100°-110°	508.1	6.5	5.6
110°-120°	850.7	11.0	9.5
120°-130°	927.1	11.9	10.3
130°-140°	924.4	11.9	10.3
140°-150°	851.8	11.0	9.5
150°-160°	686.4	8.8	7.6
160°-170°	442.6	5.7	4.9
170°-180°	154.0	2.0	1.7
0°-30°	955.4	12.3	10.6
0°-40°	1405.4	18.1	15.6
0°-60°	2213.4	28.5	24.6
0°-90°	2319.5	29.9	25.8
90°-120°	1458.1	18.8	16.2
90°-150°	4161.4	53.6	46.2
90°-180°	5444.0	70.1	60.5
0°-180°	7763.9	100.0	86.3

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1431	1431	1431	1431	1431	
5°	1425	1467	1425	1436	1425	135
15°	1342	1339	1342	1203	1342	378
25°	1208	708	1208	647	1208	556
35°	1025	614	1025	665	1025	640
45°	783	868	783	852	783	602
55°	488	157	488	229	488	429
65°	124	42	124	37	124	139
75°	22	19	22	11	22	25
85°	8	8	8	6	8	7
90°	0	0	0	0	0	2
95°	40	96	40	47	40	51
105°	231	649	231	259	231	247
115°	492	1334	492	746	492	486
125°	765	1483	765	936	765	682
135°	1017	1511	1017	1108	1017	784
145°	1239	1511	1239	1306	1239	774
155°	1414	1564	1414	1500	1414	651
165°	1535	1603	1535	1518	1535	433
175°	1599	1631	1599	1606	1599	152
180°	1600	1600	1600	1600	1600	



TEST NUMBER: 17909  
 CATALOG NUMBER: E2W-WH-2T5

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1431.1	1431.1	1431.1	1431.1	1431.1	1431.1	1431.1	1431.1	1431.1	1431.1	1431.1
2.5°	1432.2	1436.4	1436.4	1438.5	1446.2	1438.5	1436.4	1436.4	1432.2	1433.6	1430.8
5°	1424.9	1430.8	1446.2	1456.7	1467.2	1456.7	1446.2	1430.8	1424.9	1433.6	1438.5
7.5°	1414.4	1428.7	1453.9	1477.0	1498.0	1477.0	1453.9	1428.7	1414.4	1430.8	1441.3
10°	1392.3	1418.2	1459.5	1500.1	1510.6	1500.1	1459.5	1418.2	1392.3	1418.2	1436.4
12.5°	1369.9	1407.7	1464.4	1502.9	1459.5	1502.9	1464.4	1407.7	1369.9	1400.0	1421.0
15°	1341.6	1390.2	1449.0	1425.9	1339.1	1425.9	1449.0	1390.2	1341.6	1374.8	1354.5
17.5°	1313.2	1367.1	1387.4	1320.9	1197.8	1320.9	1387.4	1367.1	1313.2	1344.0	1239.1
20°	1281.1	1348.9	1290.2	1164.2	1049.4	1164.2	1290.2	1348.9	1281.1	1302.7	1113.1
22.5°	1246.8	1328.6	1171.9	1013.0	892.7	1013.0	1171.9	1328.6	1246.8	1246.8	977.4
25°	1208.3	1290.2	1041.7	861.9	708.0	861.9	1041.7	1290.2	1208.3	1164.2	852.1
27.5°	1162.1	1246.8	918.6	690.5	539.3	690.5	918.6	1246.8	1162.1	1051.5	731.0
30°	1125.0	1182.4	790.5	533.7	479.8	533.7	790.5	1182.4	1125.0	966.9	624.0
32.5°	1075.0	1103.3	652.0	467.2	518.3	467.2	652.0	1103.3	1075.0	849.3	554.7
35°	1024.6	1020.7	523.9	493.1	613.5	493.1	523.9	1020.7	1024.6	759.7	510.6
37.5°	971.1	900.4	442.0	582.7	831.1	582.7	442.0	900.4	971.1	654.8	495.2
40°	913.3	803.1	449.7	731.0	1057.1	731.0	449.7	803.1	913.3	564.5	518.3
42.5°	850.7	684.9	485.4	918.6	1031.2	918.6	485.4	684.9	850.7	482.6	559.6
45°	782.8	585.5	533.7	918.6	867.5	918.6	533.7	585.5	782.8	421.1	595.3
47.5°	714.6	495.2	595.3	761.8	695.4	761.8	595.3	495.2	714.6	385.4	626.1
50°	641.8	419.0	608.6	585.5	498.0	585.5	608.6	419.0	641.8	365.1	616.3
52.5°	567.3	351.8	508.5	426.7	269.9	426.7	508.5	351.8	567.3	344.1	536.5
55°	487.5	297.9	370.0	244.0	157.2	244.0	370.0	297.9	487.5	311.2	419.0
57.5°	402.2	246.8	251.7	141.9	113.9	141.9	251.7	246.8	402.2	269.9	297.9
60°	299.3	195.7	144.7	98.5	75.4	98.5	144.7	195.7	299.3	206.2	185.2
62.5°	203.4	137.0	83.1	69.8	54.4	69.8	83.1	137.0	203.4	144.7	103.4
65°	123.7	85.2	54.4	49.5	41.8	49.5	54.4	85.2	123.7	83.1	64.9
67.5°	69.8	52.3	41.8	36.9	34.1	36.9	41.8	52.3	69.8	49.5	41.8
70°	44.2	34.1	31.3	29.2	29.2	29.2	31.3	34.1	44.2	34.1	31.3
72.5°	30.2	26.4	26.4	23.6	21.5	23.6	26.4	26.4	30.2	26.4	26.4
75°	22.5	21.5	21.5	21.5	18.7	21.5	21.5	21.5	22.5	18.7	15.9
77.5°	13.8	15.9	18.7	15.9	13.8	15.9	18.7	15.9	13.8	15.9	15.9
80°	12.4	15.9	15.9	15.9	15.9	15.9	15.9	15.9	12.4	15.9	11.0
82.5°	9.6	11.0	13.8	13.8	13.8	13.8	13.8	11.0	9.6	8.2	11.0
85°	8.5	8.2	6.1	13.8	8.2	13.8	6.1	8.2	8.5	3.3	6.1
87.5°	4.7	3.3	6.1	8.2	8.2	8.2	6.1	3.3	4.7	3.3	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	52.3	26.4	49.5	18.7	49.5	26.4	52.3	11.0	6.1	18.7
95°	40.4	129.3	103.4	123.7	95.7	123.7	103.4	129.3	40.4	39.0	52.3
97.5°	78.9	269.9	213.9	216.0	167.7	216.0	213.9	269.9	78.9	69.8	85.2
100°	122.6	521.1	365.1	462.3	308.4	462.3	365.1	521.1	122.6	126.5	146.7
102.5°	173.7	600.9	536.5	551.9	464.4	551.9	536.5	600.9	173.7	169.8	259.4
105°	231.4	756.9	708.0	731.0	649.2	731.0	708.0	756.9	231.4	354.6	382.6
107.5°	293.0	887.8	859.8	920.7	841.6	920.7	859.8	887.8	293.0	472.1	498.0
110°	357.0	946.6	949.4	1087.9	1020.7	1087.9	949.4	946.6	357.0	564.5	595.3



TEST NUMBER: 17909  
 CATALOG NUMBER: E2W-WH-2T5

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	421.1	1000.5	1008.2	1231.4	1185.2	1231.4	1008.2	1000.5	421.1	610.7	639.4
115°	491.7	1023.5	1051.5	1297.9	1333.5	1297.9	1051.5	1023.5	491.7	644.3	672.3
117.5°	559.6	1051.5	1072.5	1341.2	1405.6	1341.2	1072.5	1051.5	559.6	687.7	713.6
120°	628.9	1085.1	1100.5	1374.8	1444.1	1374.8	1100.5	1085.1	628.9	736.6	761.8
122.5°	697.8	1126.4	1131.3	1390.2	1474.9	1390.2	1131.3	1126.4	697.8	787.7	813.6
125°	764.6	1139.0	1156.5	1395.1	1482.6	1395.1	1156.5	1139.0	764.6	813.6	867.5
127.5°	828.7	1167.0	1185.2	1415.4	1490.3	1415.4	1185.2	1167.0	828.7	895.5	918.6
130°	894.4	1197.8	1208.3	1425.9	1502.9	1425.9	1208.3	1197.8	894.4	954.3	977.4
132.5°	956.7	1233.5	1236.3	1436.4	1510.6	1436.4	1236.3	1233.5	956.7	1018.6	1038.9
135°	1016.9	1262.2	1272.0	1438.5	1510.6	1438.5	1272.0	1262.2	1016.9	1082.3	1100.5
137.5°	1076.4	1295.1	1300.6	1441.3	1507.8	1441.3	1300.6	1295.1	1076.4	1136.2	1159.3
140°	1132.4	1323.7	1328.6	1456.7	1498.0	1456.7	1328.6	1323.7	1132.4	1208.3	1225.8
142.5°	1184.8	1354.5	1359.4	1467.2	1500.1	1467.2	1359.4	1354.5	1184.8	1272.0	1290.2
145°	1238.7	1421.0	1390.2	1490.3	1510.6	1490.3	1390.2	1421.0	1238.7	1331.4	1346.8
147.5°	1287.7	1441.3	1433.6	1498.0	1518.3	1498.0	1433.6	1441.3	1287.7	1348.9	1384.6
150°	1331.1	1477.0	1469.3	1513.4	1533.7	1513.4	1469.3	1477.0	1331.1	1390.2	1407.7
152.5°	1374.5	1500.1	1502.9	1541.4	1544.2	1541.4	1502.9	1500.1	1374.5	1410.5	1423.1
155°	1414.4	1515.5	1521.1	1575.0	1564.5	1575.0	1521.1	1515.5	1414.4	1428.7	1441.3
157.5°	1449.0	1533.7	1530.9	1595.2	1592.4	1595.2	1530.9	1533.7	1449.0	1444.1	1459.5
160°	1478.4	1559.6	1551.9	1595.2	1610.6	1595.2	1551.9	1559.6	1478.4	1469.3	1469.3
162.5°	1510.6	1587.5	1577.1	1595.2	1605.7	1595.2	1577.1	1587.5	1510.6	1498.0	1505.7
165°	1535.1	1615.5	1602.9	1610.6	1602.9	1610.6	1602.9	1615.5	1535.1	1533.7	1541.4
167.5°	1556.8	1638.6	1628.1	1646.3	1618.3	1646.3	1628.1	1638.6	1556.8	1569.4	1577.1
170°	1573.2	1641.4	1638.6	1651.2	1641.4	1651.2	1638.6	1641.4	1573.2	1582.7	1600.1
172.5°	1588.6	1633.7	1633.7	1649.1	1649.1	1649.1	1633.7	1633.7	1588.6	1605.7	1605.7
175°	1599.1	1623.2	1626.0	1630.9	1630.9	1630.9	1626.0	1623.2	1599.1	1607.8	1605.7
177.5°	1602.9	1610.6	1613.4	1607.8	1610.6	1607.8	1613.4	1610.6	1602.9	1607.8	1605.7
180°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4



TEST NUMBER: 17909  
 CATALOG NUMBER: E2W-WH-2T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1431.1	1431.1	1431.1	1431.1	1431.1	1431.1
2.5°	1436.4	1425.9	1436.4	1430.8	1433.6	1432.2
5°	1449.0	1436.4	1449.0	1438.5	1433.6	1424.9
7.5°	1449.0	1441.3	1449.0	1441.3	1430.8	1414.4
10°	1430.8	1433.6	1430.8	1436.4	1418.2	1392.3
12.5°	1331.4	1341.2	1331.4	1421.0	1400.0	1369.9
15°	1179.6	1202.7	1179.6	1354.5	1374.8	1341.6
17.5°	1036.1	1036.1	1036.1	1239.1	1344.0	1313.2
20°	887.8	892.7	887.8	1113.1	1302.7	1281.1
22.5°	754.1	752.0	754.1	977.4	1246.8	1246.8
25°	641.5	647.1	641.5	852.1	1164.2	1208.3
27.5°	575.0	587.6	575.0	731.0	1051.5	1162.1
30°	549.1	556.8	549.1	624.0	966.9	1125.0
32.5°	559.6	590.4	559.6	554.7	849.3	1075.0
35°	624.0	664.6	624.0	510.6	759.7	1024.6
37.5°	700.3	749.2	700.3	495.2	654.8	971.1
40°	798.2	880.1	798.2	518.3	564.5	913.3
42.5°	857.0	928.4	857.0	559.6	482.6	850.7
45°	800.3	852.1	800.3	595.3	421.1	782.8
47.5°	670.2	736.6	670.2	626.1	385.4	714.6
50°	528.8	567.3	528.8	616.3	365.1	641.8
52.5°	370.0	377.7	370.0	536.5	344.1	567.3
55°	206.2	228.6	206.2	419.0	311.2	487.5
57.5°	134.2	141.9	134.2	297.9	269.9	402.2
60°	77.5	83.1	77.5	185.2	206.2	299.3
62.5°	49.5	52.3	49.5	103.4	144.7	203.4
65°	36.9	36.9	36.9	64.9	83.1	123.7
67.5°	29.2	26.4	29.2	41.8	49.5	69.8
70°	21.5	21.5	21.5	31.3	34.1	44.2
72.5°	18.7	13.8	18.7	26.4	26.4	30.2
75°	13.8	11.0	13.8	15.9	18.7	22.5
77.5°	15.9	11.0	15.9	15.9	15.9	13.8
80°	6.1	11.0	6.1	11.0	15.9	12.4
82.5°	3.3	6.1	3.3	11.0	8.2	9.6
85°	3.3	6.1	3.3	6.1	3.3	8.5
87.5°	3.3	0.5	3.3	6.1	3.3	4.7
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	3.3	13.8	3.3	18.7	6.1	11.0
95°	34.1	46.7	34.1	52.3	39.0	40.4
97.5°	64.9	72.6	64.9	85.2	69.8	78.9
100°	98.5	106.2	98.5	146.7	126.5	122.6
102.5°	116.0	154.4	116.0	259.4	169.8	173.7
105°	254.5	259.4	254.5	382.6	354.6	231.4
107.5°	380.5	388.2	380.5	498.0	472.1	293.0
110°	508.5	505.7	508.5	595.3	564.5	357.0





TEST NUMBER: 17909  
 CATALOG NUMBER: E2W-WH-2T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	624.0	631.7	624.0	639.4	610.7	421.1
115°	731.0	746.4	731.0	672.3	644.3	491.7
117.5°	805.9	833.9	805.9	713.6	687.7	559.6
120°	829.0	872.4	829.0	761.8	736.6	628.9
122.5°	867.5	895.5	867.5	813.6	787.7	697.8
125°	882.9	936.1	882.9	867.5	813.6	764.6
127.5°	949.4	974.6	949.4	918.6	895.5	828.7
130°	995.6	1018.6	995.6	977.4	954.3	894.4
132.5°	1041.7	1066.9	1041.7	1038.9	1018.6	956.7
135°	1087.9	1108.2	1087.9	1100.5	1082.3	1016.9
137.5°	1136.2	1156.5	1136.2	1159.3	1136.2	1076.4
140°	1195.0	1205.5	1195.0	1225.8	1208.3	1132.4
142.5°	1246.8	1256.6	1246.8	1290.2	1272.0	1184.8
145°	1297.9	1305.5	1297.9	1346.8	1331.4	1238.7
147.5°	1323.7	1362.2	1323.7	1384.6	1348.9	1287.7
150°	1415.4	1413.3	1415.4	1407.7	1390.2	1331.1
152.5°	1464.4	1469.3	1464.4	1423.1	1410.5	1374.5
155°	1487.5	1500.1	1487.5	1441.3	1428.7	1414.4
157.5°	1498.0	1510.6	1498.0	1459.5	1444.1	1449.0
160°	1500.1	1513.4	1500.1	1469.3	1469.3	1478.4
162.5°	1507.8	1510.6	1507.8	1505.7	1498.0	1510.6
165°	1515.5	1518.3	1515.5	1541.4	1533.7	1535.1
167.5°	1544.2	1533.7	1544.2	1577.1	1569.4	1556.8
170°	1559.6	1572.2	1559.6	1600.1	1582.7	1573.2
172.5°	1605.7	1600.1	1605.7	1605.7	1605.7	1588.6
175°	1613.4	1605.7	1613.4	1605.7	1607.8	1599.1
177.5°	1605.7	1598.0	1605.7	1605.7	1607.8	1602.9
180°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4

(END OF REPORT)