

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: 17913

Luminaire Tested: **E2W-WC-2T8**

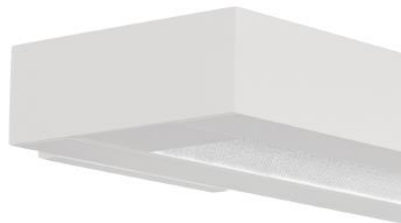
Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 17913  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2W-WC-2T8  
Description: DIRECT/INDIRECT WALL LUMINAIRE - ELEMENT WALL  
WITH WHITE INTERIOR AND WHITE LENS OVER CONCAVE PERF PANEL  
  
Light Source: TWO PHILIPS 32 WATT T8 LAMPS  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

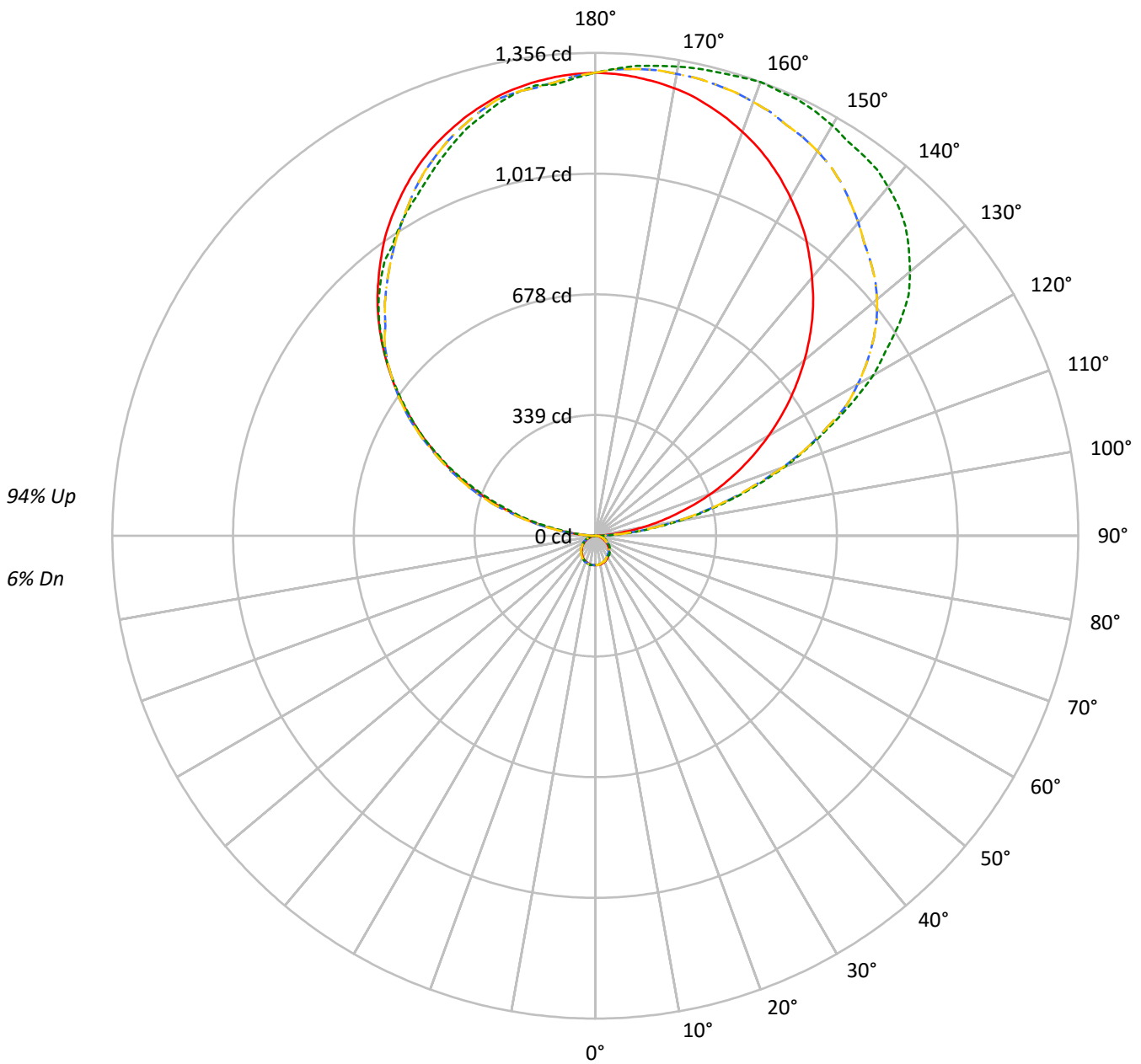
**Summary**

Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 4365.0 lumens  
Efficiency: 72.7%  
Efficacy: 70.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')  
CIE Type: Indirect  
  
Input Watts (W): 62  
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



TEST NUMBER: 17913  
CATALOG NUMBER: E2W-WC-2T8

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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	0																			
RCR																																														
0	70	70	70	70	61	61	61	61	43	43	43	26	26	26	11	11	11	4																												
1	64	61	58	56	55	53	51	49	37	36	35	23	22	22	10	9	9	3																												
2	58	53	49	46	50	46	43	40	32	30	29	20	19	18	9	8	8	3																												
3	53	47	42	38	45	40	36	33	29	26	24	18	16	15	8	7	7	2																												
4	48	41	36	32	41	36	31	28	25	22	20	16	14	13	7	6	6	2																												
5	44	36	31	27	38	31	27	24	22	19	17	14	12	11	6	5	5	2																												
6	40	32	27	23	35	28	24	20	20	17	15	12	11	9	5	5	4	1																												
7	37	29	24	20	32	25	21	18	18	15	13	11	9	8	5	4	4	1																												
8	34	26	21	17	30	23	18	15	16	13	11	10	8	7	4	4	3	1																												
9	32	24	19	15	27	21	16	13	15	12	10	9	8	6	4	3	3	1																												
10	30	21	17	13	25	19	15	12	13	11	9	8	7	6	4	3	3	1																												

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

	0°	90°	180°	270°
0°	1127	1127	1127	1127
5°	1134	1120	1134	1134
10°	1140	1110	1140	1147
15°	1126	1106	1126	1146
20°	1123	1098	1123	1149
25°	1119	1083	1119	1138
30°	1106	1091	1106	1122
35°	1085	1108	1085	1095
40°	1080	1105	1080	1087
45°	1014	1126	1014	1074
50°	1028	1124	1028	1050
55°	1000	1112	1000	1024
60°	965	1126	965	1025
65°	906	1158	906	1006
70°	809	1172	809	996
75°	716	1211	716	927
80°	604	1240	604	816
85°	563	1360	563	500



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	7.8	0.2	0.1
10°-20°	22.4	0.5	0.4
20°-30°	33.9	0.8	0.6
30°-40°	41.0	0.9	0.7
40°-50°	42.5	1.0	0.7
50°-60°	38.8	0.9	0.6
60°-70°	30.5	0.7	0.5
70°-80°	19.0	0.4	0.3
80°-90°	5.9	0.1	0.1
90°-100°	83.7	1.9	1.4
100°-110°	324.0	7.4	5.4
110°-120°	554.5	12.7	9.2
120°-130°	701.1	16.1	11.7
130°-140°	740.5	17.0	12.3
140°-150°	684.4	15.7	11.4
150°-160°	552.8	12.7	9.2
160°-170°	358.6	8.2	6.0
170°-180°	123.6	2.8	2.1
0°-30°	64.2	1.5	1.1
0°-40°	105.2	2.4	1.8
0°-60°	186.5	4.3	3.1
0°-90°	241.8	5.5	4.0
90°-120°	962.2	22.0	16.0
90°-150°	3088.2	70.7	51.5
90°-180°	4123.0	94.5	68.7
0°-180°	4365.0	100.0	72.7

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	83	83	83	83	83	
5°	83	82	83	83	83	8
15°	80	78	80	81	80	23
25°	74	72	74	76	74	34
35°	65	67	65	66	65	41
45°	53	58	53	56	53	42
55°	42	47	42	43	42	37
65°	28	36	28	31	28	27
75°	14	23	14	18	14	14
85°	4	9	4	3	4	4
90°	0	0	0	0	0	2
95°	43	98	43	37	43	54
105°	235	397	235	223	235	250
115°	454	727	454	450	454	449
125°	666	1043	666	663	666	595
135°	861	1231	861	859	861	664
145°	1028	1307	1028	994	1028	642
155°	1158	1350	1158	1110	1158	533
165°	1247	1346	1247	1221	1247	352
175°	1293	1324	1293	1272	1293	123
180°	1300	1300	1300	1300	1300	



TEST NUMBER: 17913  
 CATALOG NUMBER: E2W-WC-2T8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
2.5°	82.9	83.9	81.2	82.9	81.9	82.9	81.2	83.9	82.9	82.9	82.9
5°	82.9	82.9	82.9	81.9	81.9	81.9	82.9	82.9	82.9	83.9	81.9
7.5°	81.9	81.2	81.9	81.2	81.2	81.2	81.9	81.2	81.9	83.9	81.9
10°	82.4	81.2	80.2	80.2	80.2	80.2	80.2	81.2	82.4	81.9	82.9
12.5°	81.0	80.2	79.2	79.2	79.2	79.2	79.2	80.2	81.0	81.2	81.9
15°	79.8	79.2	77.4	78.4	78.4	78.4	77.4	79.2	79.8	79.2	81.2
17.5°	78.3	77.4	76.5	76.5	76.5	76.5	76.5	77.4	78.3	79.2	79.2
20°	77.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	77.4	78.4	79.2
22.5°	75.2	74.7	74.0	74.0	74.7	74.0	74.0	74.7	75.2	76.5	78.4
25°	74.4	72.0	71.3	72.0	72.0	72.0	71.3	72.0	74.4	74.7	75.7
27.5°	72.1	70.3	68.5	70.3	71.3	70.3	68.5	70.3	72.1	74.0	73.0
30°	70.3	69.3	66.6	68.5	69.3	68.5	66.6	69.3	70.3	71.3	73.0
32.5°	67.5	65.8	65.8	66.6	67.5	66.6	65.8	65.8	67.5	68.5	70.3
35°	65.2	65.8	61.1	66.6	66.6	66.6	61.1	65.8	65.2	67.5	67.5
37.5°	62.6	62.1	61.1	63.1	64.8	63.1	61.1	62.1	62.6	63.8	64.8
40°	60.7	57.7	58.4	63.1	62.1	63.1	58.4	57.7	60.7	62.1	62.1
42.5°	57.2	53.9	56.7	58.4	60.4	58.4	56.7	53.9	57.2	58.4	60.4
45°	52.6	52.2	53.9	56.7	58.4	56.7	53.9	52.2	52.6	55.7	57.7
47.5°	51.7	49.5	51.2	53.9	54.9	53.9	51.2	49.5	51.7	54.9	53.0
50°	48.5	45.8	49.5	51.2	53.0	51.2	49.5	45.8	48.5	50.2	51.2
52.5°	45.3	43.1	45.8	49.5	50.2	49.5	45.8	43.1	45.3	45.8	46.8
55°	42.1	40.3	42.1	45.8	46.8	45.8	42.1	40.3	42.1	43.1	44.0
57.5°	37.6	38.6	40.3	44.0	44.0	44.0	40.3	38.6	37.6	40.3	42.1
60°	35.4	33.9	36.6	40.3	41.3	40.3	36.6	33.9	35.4	35.9	38.6
62.5°	30.8	32.2	34.9	37.6	38.6	37.6	34.9	32.2	30.8	32.2	35.9
65°	28.1	27.7	32.2	33.9	35.9	33.9	32.2	27.7	28.1	28.5	32.2
67.5°	24.0	25.7	28.5	31.2	32.2	31.2	28.5	25.7	24.0	25.0	27.7
70°	20.3	21.3	25.7	29.4	29.4	29.4	25.7	21.3	20.3	23.0	25.0
72.5°	16.8	18.6	22.3	25.7	26.7	25.7	22.3	18.6	16.8	20.3	21.3
75°	13.6	15.8	20.3	23.0	23.0	23.0	20.3	15.8	13.6	15.8	19.6
77.5°	10.0	13.1	15.8	19.6	18.6	19.6	15.8	13.1	10.0	13.1	16.8
80°	7.7	11.4	14.1	17.6	15.8	17.6	14.1	11.4	7.7	9.4	12.1
82.5°	5.4	9.4	10.4	12.1	10.4	12.1	10.4	9.4	5.4	6.7	8.7
85°	3.6	6.7	5.9	8.7	8.7	8.7	5.9	6.7	3.6	4.0	3.2
87.5°	1.9	3.2	3.2	6.7	6.7	6.7	3.2	3.2	1.9	1.2	0.5
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°	14.1	47.5	34.9	61.1	42.1	61.1	34.9	47.5	14.1	10.4	18.6
95°	42.7	105.6	91.1	117.3	97.5	117.3	91.1	105.6	42.7	38.6	44.0
97.5°	83.9	178.1	155.4	189.8	161.8	189.8	155.4	178.1	83.9	84.6	89.3
100°	131.5	295.9	227.9	309.5	238.0	309.5	227.9	295.9	131.5	137.3	138.3
102.5°	183.0	331.3	305.8	347.6	315.0	347.6	305.8	331.3	183.0	161.8	191.7
105°	234.7	409.2	386.5	428.3	397.3	428.3	386.5	409.2	234.7	239.7	244.2
107.5°	290.1	473.5	467.1	513.4	480.0	513.4	467.1	473.5	290.1	292.2	305.1
110°	346.1	528.7	558.7	596.8	566.1	596.8	558.7	528.7	346.1	342.9	358.5



TEST NUMBER: 17913  
 CATALOG NUMBER: E2W-WC-2T8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	399.6	578.7	642.0	681.9	645.7	681.9	642.0	578.7	399.6	393.9	409.2
115°	454.5	625.7	716.5	771.7	727.4	771.7	716.5	625.7	454.5	433.7	462.7
117.5°	508.4	668.3	796.2	849.6	815.2	849.6	796.2	668.3	508.4	488.9	514.4
120°	561.4	720.0	850.6	921.1	901.3	921.1	850.6	720.0	561.4	532.4	569.5
122.5°	614.8	795.2	904.0	1030.0	967.4	1030.0	904.0	795.2	614.8	579.4	622.2
125°	666.5	817.9	952.0	1056.2	1042.6	1056.2	952.0	817.9	666.5	600.5	671.0
127.5°	717.4	861.5	995.6	1099.7	1108.9	1099.7	995.6	861.5	717.4	671.0	717.2
130°	766.6	903.1	1032.7	1141.6	1153.2	1141.6	1032.7	903.1	766.6	719.2	761.8
132.5°	814.4	944.9	1065.4	1178.7	1194.0	1178.7	1065.4	944.9	814.4	768.0	803.3
135°	861.0	982.0	1091.6	1208.6	1231.1	1208.6	1091.6	982.0	861.0	820.7	833.3
137.5°	905.4	1019.1	1117.1	1232.9	1258.3	1232.9	1117.1	1019.1	905.4	859.5	875.1
140°	946.6	1051.7	1148.7	1251.2	1279.1	1251.2	1148.7	1051.7	946.6	913.9	912.2
142.5°	987.4	1084.4	1177.7	1262.0	1297.4	1262.0	1177.7	1084.4	987.4	956.5	949.3
145°	1027.7	1133.4	1206.6	1290.0	1307.3	1290.0	1206.6	1133.4	1027.7	999.0	986.4
147.5°	1063.1	1146.0	1229.4	1299.2	1315.5	1299.2	1229.4	1146.0	1063.1	1017.4	1022.8
150°	1096.2	1173.2	1247.4	1314.5	1330.8	1314.5	1247.4	1173.2	1096.2	1077.0	1058.9
152.5°	1128.3	1197.7	1262.0	1325.4	1341.7	1325.4	1262.0	1197.7	1128.3	1109.6	1097.0
155°	1157.8	1222.2	1271.9	1334.5	1349.9	1334.5	1271.9	1222.2	1157.8	1143.3	1130.7
157.5°	1184.5	1241.0	1287.3	1336.3	1350.9	1336.3	1287.3	1241.0	1184.5	1173.2	1160.4
160°	1207.2	1259.3	1296.4	1338.0	1356.3	1338.0	1296.4	1259.3	1207.2	1198.5	1188.6
162.5°	1228.9	1274.7	1305.6	1337.3	1350.9	1337.3	1305.6	1274.7	1228.9	1217.5	1213.1
165°	1247.4	1288.3	1311.0	1338.0	1346.2	1338.0	1311.0	1288.3	1247.4	1232.9	1236.6
167.5°	1264.3	1300.1	1316.2	1334.5	1343.4	1334.5	1316.2	1300.1	1264.3	1247.4	1256.6
170°	1276.5	1303.6	1317.2	1331.8	1338.0	1331.8	1317.2	1303.6	1276.5	1253.9	1265.5
172.5°	1285.9	1307.3	1319.0	1327.1	1330.8	1327.1	1319.0	1307.3	1285.9	1274.7	1269.2
175°	1293.2	1309.1	1315.5	1318.2	1324.4	1318.2	1315.5	1309.1	1293.2	1287.3	1279.1
177.5°	1298.3	1309.1	1311.0	1308.3	1312.8	1308.3	1311.0	1309.1	1298.3	1296.4	1292.0
180°	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4



TEST NUMBER: 17913  
 CATALOG NUMBER: E2W-WC-2T8

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	82.7	82.7	82.7	82.7	82.7	82.7
2.5°	82.9	82.9	82.9	82.9	82.9	82.9
5°	83.9	82.9	83.9	81.9	83.9	82.9
7.5°	81.9	82.9	81.9	81.9	83.9	81.9
10°	81.9	82.9	81.9	82.9	81.9	82.4
12.5°	81.2	81.9	81.2	81.9	81.2	81.0
15°	81.2	81.2	81.2	81.2	79.2	79.8
17.5°	79.2	79.2	79.2	79.2	79.2	78.3
20°	78.4	79.2	78.4	79.2	78.4	77.4
22.5°	76.5	75.7	76.5	78.4	76.5	75.2
25°	74.0	75.7	74.0	75.7	74.7	74.4
27.5°	72.0	73.0	72.0	73.0	74.0	72.1
30°	69.3	71.3	69.3	73.0	71.3	70.3
32.5°	67.5	68.5	67.5	70.3	68.5	67.5
35°	65.8	65.8	65.8	67.5	67.5	65.2
37.5°	63.1	63.8	63.1	64.8	63.8	62.6
40°	60.4	61.1	60.4	62.1	62.1	60.7
42.5°	56.7	58.4	56.7	60.4	58.4	57.2
45°	53.9	55.7	53.9	57.7	55.7	52.6
47.5°	50.2	51.2	50.2	53.0	54.9	51.7
50°	48.5	49.5	48.5	51.2	50.2	48.5
52.5°	45.8	46.8	45.8	46.8	45.8	45.3
55°	43.1	43.1	43.1	44.0	43.1	42.1
57.5°	40.3	40.3	40.3	42.1	40.3	37.6
60°	35.9	37.6	35.9	38.6	35.9	35.4
62.5°	33.9	34.9	33.9	35.9	32.2	30.8
65°	29.4	31.2	29.4	32.2	28.5	28.1
67.5°	27.7	28.5	27.7	27.7	25.0	24.0
70°	23.0	25.0	23.0	25.0	23.0	20.3
72.5°	20.3	21.3	20.3	21.3	20.3	16.8
75°	15.8	17.6	15.8	19.6	15.8	13.6
77.5°	12.1	14.8	12.1	16.8	13.1	10.0
80°	9.4	10.4	9.4	12.1	9.4	7.7
82.5°	5.0	3.2	5.0	8.7	6.7	5.4
85°	1.2	3.2	1.2	3.2	4.0	3.6
87.5°	0.5	0.5	0.5	0.5	1.2	1.9
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	5.0	13.1	5.0	18.6	10.4	14.1
95°	27.7	36.6	27.7	44.0	38.6	42.7
97.5°	54.9	68.5	54.9	89.3	84.6	83.9
100°	97.5	113.8	97.5	138.3	137.3	131.5
102.5°	122.0	169.0	122.0	191.7	161.8	183.0
105°	207.1	223.4	207.1	244.2	239.7	234.7
107.5°	260.5	275.9	260.5	305.1	292.2	290.1
110°	318.7	333.0	318.7	358.5	342.9	346.1





TEST NUMBER: 17913  
 CATALOG NUMBER: E2W-WC-2T8

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	378.3	391.2	378.3	409.2	393.9	399.6
115°	428.3	450.0	428.3	462.7	433.7	454.5
117.5°	489.9	503.5	489.9	514.4	488.9	508.4
120°	544.3	560.6	544.3	569.5	532.4	561.4
122.5°	595.8	612.1	595.8	622.2	579.4	614.8
125°	619.5	662.8	619.5	671.0	600.5	666.5
127.5°	692.8	715.5	692.8	717.2	671.0	717.4
130°	746.2	764.5	746.2	761.8	719.2	766.6
132.5°	794.4	812.5	794.4	803.3	768.0	814.4
135°	840.5	858.8	840.5	833.3	820.7	861.0
137.5°	881.3	900.3	881.3	875.1	859.5	905.4
140°	917.7	937.4	917.7	912.2	913.9	946.6
142.5°	945.6	972.1	945.6	949.3	956.5	987.4
145°	977.5	993.6	977.5	986.4	999.0	1027.7
147.5°	991.9	1025.5	991.9	1022.8	1017.4	1063.1
150°	1036.4	1054.5	1036.4	1058.9	1077.0	1096.2
152.5°	1066.1	1079.7	1066.1	1097.0	1109.6	1128.3
155°	1098.0	1109.6	1098.0	1130.7	1143.3	1157.8
157.5°	1132.4	1140.6	1132.4	1160.4	1173.2	1184.5
160°	1163.1	1170.5	1163.1	1188.6	1198.5	1207.2
162.5°	1193.0	1199.5	1193.0	1213.1	1217.5	1228.9
165°	1217.5	1221.2	1217.5	1236.6	1232.9	1247.4
167.5°	1240.3	1245.7	1240.3	1256.6	1247.4	1264.3
170°	1250.2	1263.8	1250.2	1265.5	1253.9	1276.5
172.5°	1272.9	1275.7	1272.9	1269.2	1274.7	1285.9
175°	1271.9	1271.9	1271.9	1279.1	1287.3	1293.2
177.5°	1281.8	1286.5	1281.8	1292.0	1296.4	1298.3
180°	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4

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