

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P328415

Luminaire Tested: **22CGT3540C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( IDL-RB2A24GS1-D30W0XL)  
Test Lab: ETA Testing Technology Co., Ltd.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CGT3540C  
Description: 3500 LUMEN, 2X2 CGT LED TROFFER WITH 4000 CCT LEDS

Light Source: -  
Ballast/Driver: -

**Summary**

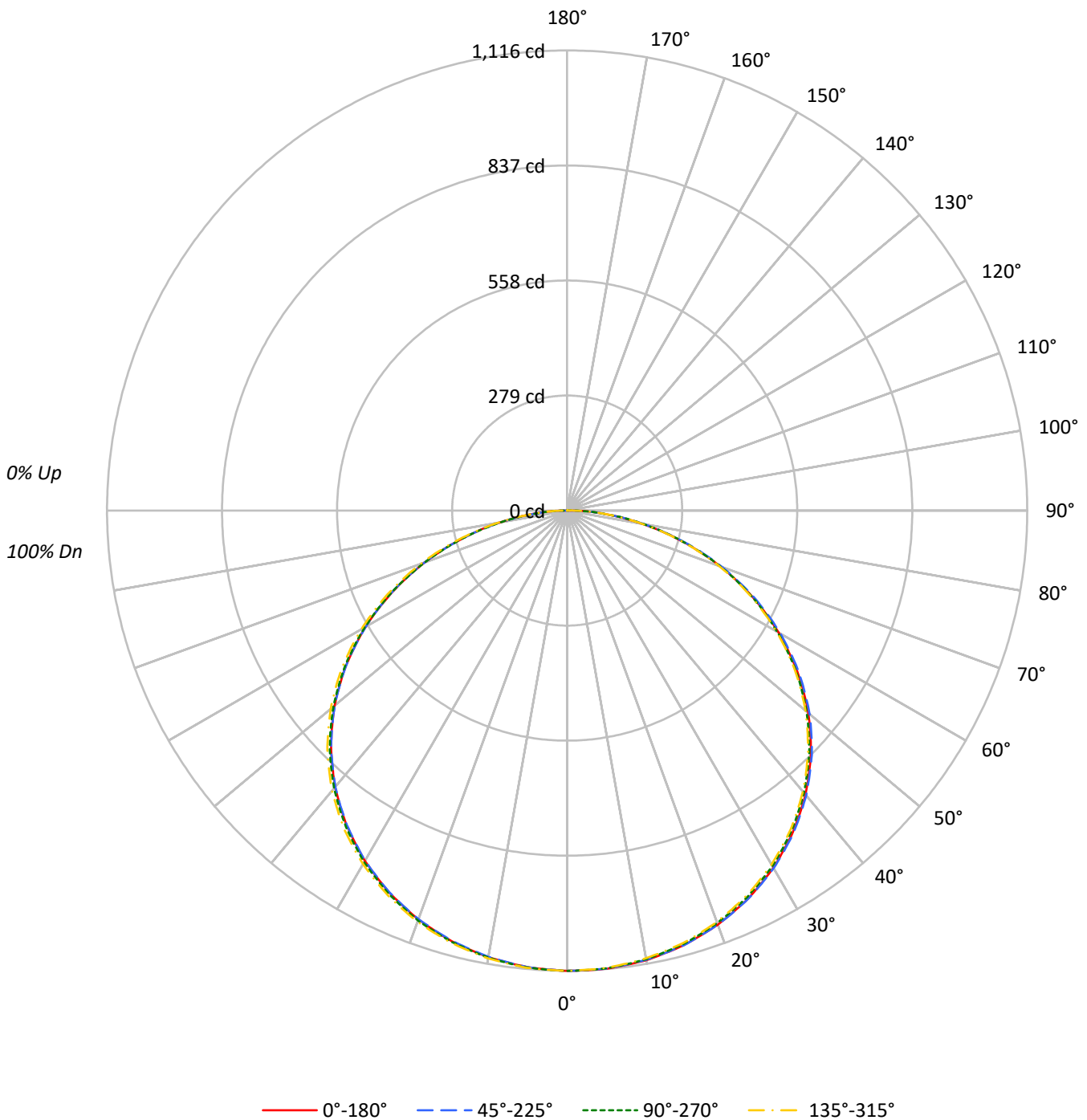
Lumens per Lamp: N/A  
Luminaire Lumens: 3581.9 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.45  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.4  
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



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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	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	35	29	24	35	28	24	22

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

	0°	90°	180°	270°
0°	3004	3004	3004	3004
5°	3012	3010	3002	3005
10°	3025	3019	3006	3008
15°	3041	3033	3012	3017
20°	3061	3048	3022	3030
25°	3083	3070	3034	3043
30°	3109	3093	3048	3059
35°	3133	3117	3062	3074
40°	3160	3139	3075	3090
45°	3183	3160	3081	3100
50°	3197	3173	3083	3098
55°	3201	3179	3070	3086
60°	3188	3167	3038	3053
65°	3165	3151	2979	2992
70°	3110	3107	2888	2891
75°	3005	3018	2748	2739
80°	2859	2906	2552	2515
85°	2708	2831	2211	2143



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.9	3.0
10°-20°	306.8	8.6
20°-30°	475.0	13.3
30°-40°	590.2	16.5
40°-50°	634.9	17.7
50°-60°	597.5	16.7
60°-70°	478.3	13.4
70°-80°	294.0	8.2
80°-90°	94.7	2.6
90°-100°	3.2	0.1
100°-110°	0.2	0.0
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	887.7	24.8
0°-40°	1478.0	41.3
0°-60°	2710.4	75.7
0°-90°	3577.3	99.9
90°-120°	3.7	0.1
90°-150°	4.4	0.1
90°-180°	5.0	0.1
0°-180°	3581.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1116	1116	1116	1116	1116	
5°	1115	1114	1111	1112	1115	106
15°	1092	1089	1081	1083	1092	308
25°	1038	1034	1022	1025	1038	479
35°	954	949	932	936	954	597
45°	836	830	810	814	836	645
55°	682	678	654	658	682	609
65°	497	495	468	470	497	491
75°	289	290	264	263	289	306
85°	88	92	72	69	88	93
90°	12	16	11	10	12	15
95°	0	0	0	0	0	2
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3
5°	1115.2	1114.8	1115.2	1115.7	1114.9	1114.5	1114.2	1114.2	1114.2	1114.2	1113.6
10°	1107.1	1106.9	1107.5	1107.3	1106.4	1105.8	1105.6	1105.6	1105.0	1104.7	1104.2
15°	1091.5	1092.1	1092.2	1092.0	1092.1	1091.0	1090.0	1089.8	1088.5	1088.6	1087.6
20°	1068.8	1068.8	1069.9	1069.9	1069.3	1068.2	1068.0	1066.4	1065.2	1064.3	1063.4
25°	1038.5	1038.7	1039.6	1039.8	1040.1	1038.3	1037.7	1036.2	1034.6	1033.8	1033.0
30°	1000.4	1001.3	1002.2	1002.8	1002.5	1000.7	999.6	998.1	996.2	995.5	994.0
35°	953.7	955.4	956.9	957.0	956.9	955.3	953.8	951.4	949.6	948.7	947.4
40°	899.5	900.5	902.7	902.9	902.8	900.8	899.5	897.2	894.8	893.5	892.2
45°	836.3	836.8	839.6	839.7	840.3	838.0	836.3	833.3	831.2	830.4	828.5
50°	763.6	764.9	767.6	767.9	769.0	766.2	764.8	761.6	759.0	757.9	756.4
55°	682.2	683.5	686.4	686.8	688.2	685.5	684.0	680.3	678.2	677.5	676.5
60°	592.4	593.6	597.2	597.6	598.8	596.4	594.7	591.5	588.8	588.5	587.7
65°	497.0	496.5	501.9	500.4	503.3	499.4	500.3	494.6	494.6	494.9	492.2
70°	395.3	393.3	400.3	397.6	402.0	396.5	398.5	392.1	393.2	394.9	390.6
75°	289.0	287.9	293.6	291.1	295.4	290.9	292.5	287.0	287.8	290.3	286.8
80°	184.5	184.2	188.6	186.8	190.0	186.5	187.6	183.7	184.1	187.5	185.3
85°	87.7	87.2	90.9	89.0	91.7	88.8	89.9	87.1	87.9	91.7	89.8
90°	11.8	21.0	14.9	15.7	15.4	15.7	14.7	15.1	12.0	16.4	17.3
95°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
105°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
110°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
115°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
120°	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.2	0.2
125°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2
130°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.3
135°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.2	0.2
140°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
145°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
150°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
155°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3
165°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
170°	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2
175°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3
5°	1113.3	1113.5	1112.7	1113.5	1111.5	1111.7	1112.0	1111.3	1111.0	1111.0	1111.3
10°	1103.8	1103.7	1102.5	1102.2	1101.3	1101.0	1100.2	1100.1	1099.4	1098.8	1099.5
15°	1087.8	1086.6	1086.3	1085.6	1083.6	1082.7	1081.8	1081.2	1080.1	1079.7	1080.3
20°	1064.0	1063.4	1061.6	1061.7	1059.3	1057.4	1055.8	1055.2	1054.6	1053.2	1054.1
25°	1033.0	1032.3	1030.4	1029.7	1027.3	1025.0	1023.8	1021.7	1020.5	1020.3	1020.7
30°	993.8	993.2	991.9	990.6	987.2	985.2	982.9	980.9	979.8	979.1	980.3
35°	947.6	947.1	945.3	944.0	940.1	937.0	934.5	932.2	931.5	930.0	931.5
40°	893.1	892.3	890.6	888.4	884.6	880.9	878.6	875.5	874.8	873.1	874.8
45°	829.7	828.8	827.5	825.4	821.1	816.5	813.8	809.7	809.1	807.4	809.0
50°	757.6	757.2	755.8	753.4	748.7	743.4	740.3	736.5	735.3	733.6	735.0
55°	677.6	677.3	676.1	673.1	668.1	662.5	658.8	654.4	653.3	651.3	653.3
60°	589.6	588.8	588.0	584.8	579.5	573.2	569.3	564.5	563.4	561.4	563.2
65°	496.3	493.5	494.7	489.2	486.2	477.4	476.7	467.8	470.2	465.1	470.1
70°	396.0	392.4	394.6	387.9	385.8	376.2	375.1	367.1	368.3	363.7	368.1
75°	291.5	288.6	290.3	284.3	282.1	273.4	271.7	264.3	265.4	260.9	264.3
80°	188.8	186.5	187.4	182.7	179.9	172.9	170.7	164.7	164.8	161.0	163.0
85°	92.7	90.3	90.7	86.6	84.5	78.5	76.9	71.6	72.3	68.0	70.3
90°	16.7	17.3	15.5	21.1	10.9	2.0	9.0	11.1	7.5	0.4	0.3
95°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.4	0.3
100°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3
105°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
110°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
115°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
120°	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
125°	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
130°	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
135°	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
150°	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3
165°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3
170°	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
175°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3
5°	1111.2	1111.3	1111.1	1111.6	1111.8	1112.4	1112.4	1112.4	1113.0	1112.8	1113.6
10°	1098.5	1099.1	1099.9	1100.4	1100.6	1100.9	1101.6	1101.4	1101.8	1102.2	1103.5
15°	1079.9	1080.4	1081.1	1082.3	1082.1	1082.9	1083.6	1084.1	1084.3	1085.0	1086.3
20°	1053.7	1055.1	1055.7	1056.3	1056.8	1058.0	1057.8	1058.5	1059.4	1060.3	1062.5
25°	1020.8	1021.7	1021.9	1023.7	1024.1	1024.9	1025.7	1026.4	1027.4	1028.0	1030.8
30°	979.7	980.6	981.6	983.0	983.5	984.6	985.3	986.1	987.6	989.2	991.6
35°	930.4	932.0	933.0	934.8	935.3	935.8	937.2	937.6	940.4	941.3	944.6
40°	873.6	875.5	876.9	877.7	879.0	879.5	880.6	881.7	883.5	885.3	888.7
45°	808.2	810.8	811.1	812.7	813.6	814.5	815.5	816.5	818.7	820.8	824.0
50°	734.7	736.9	737.8	739.1	739.9	740.0	742.2	742.7	745.5	747.3	750.5
55°	653.0	655.0	655.9	657.1	657.8	657.8	659.7	660.0	663.2	665.5	669.1
60°	562.9	565.4	565.9	567.5	568.3	567.2	569.5	569.6	573.1	575.2	578.8
65°	466.5	471.8	469.3	474.3	471.5	469.9	475.4	472.1	478.7	477.5	483.6
70°	364.8	370.0	367.4	372.0	369.6	367.5	372.1	369.7	375.4	374.2	381.2
75°	261.2	265.9	263.6	268.3	266.0	263.4	267.3	264.9	269.7	269.4	275.2
80°	160.9	164.2	163.4	167.0	165.6	162.3	165.4	163.2	166.8	166.8	171.5
85°	67.6	71.2	70.0	73.9	72.6	69.4	72.4	69.7	73.0	72.3	76.3
90°	13.8	7.2	10.8	8.2	12.1	10.4	7.6	10.4	7.6	11.3	8.5
95°	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
110°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
115°	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
120°	0.3	0.3	0.3	0.3	0.2	0.4	0.4	0.4	0.3	0.3	0.3
125°	0.3	0.3	0.3	0.3	0.2	0.4	0.4	0.4	0.4	0.3	0.3
130°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3
135°	0.3	0.3	0.3	0.2	0.2	0.4	0.4	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3
150°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
155°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
160°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
165°	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
175°	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3





TEST NUMBER: P328415  
 CATALOG NUMBER: 22CGT3540C

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1116.3	1116.3	1116.3	1116.3
5°	1113.4	1114.2	1114.3	1115.2
10°	1103.6	1105.1	1105.8	1107.1
15°	1087.1	1089.1	1090.0	1091.5
20°	1063.2	1065.3	1066.8	1068.8
25°	1032.1	1034.5	1036.7	1038.5
30°	993.2	996.4	997.9	1000.4
35°	946.5	950.2	951.5	953.7
40°	891.2	894.6	896.8	899.5
45°	827.1	831.2	833.0	836.3
50°	754.0	758.4	760.1	763.6
55°	672.1	676.3	678.3	682.2
60°	582.1	586.5	588.2	592.4
65°	484.6	491.5	491.0	497.0
70°	381.6	389.5	388.1	395.3
75°	276.1	283.3	282.2	289.0
80°	173.0	179.2	179.2	184.5
85°	77.4	82.6	83.0	87.7
90°	1.1	10.2	3.4	11.8
95°	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.1
105°	0.2	0.2	0.2	0.2
110°	0.2	0.2	0.2	0.2
115°	0.3	0.3	0.3	0.3
120°	0.3	0.3	0.4	0.3
125°	0.4	0.4	0.4	0.4
130°	0.4	0.4	0.4	0.4
135°	0.3	0.4	0.4	0.4
140°	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.2
155°	0.3	0.3	0.3	0.2
160°	0.3	0.3	0.3	0.3
165°	0.3	0.3	0.3	0.3
170°	0.3	0.3	0.3	0.3
175°	0.3	0.3	0.3	0.3
180°	0.3	0.3	0.3	0.3

(END OF REPORT)