

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: P364314

Luminaire Tested: **22CGT3540C-347**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (IDL-RB2A32GS1-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-347
Description: 3500 LUMEN, 2X2 347V CGT LED TROFFER WITH 4000 CCT LEDS

Light Source: -
Ballast/Driver: -

Summary

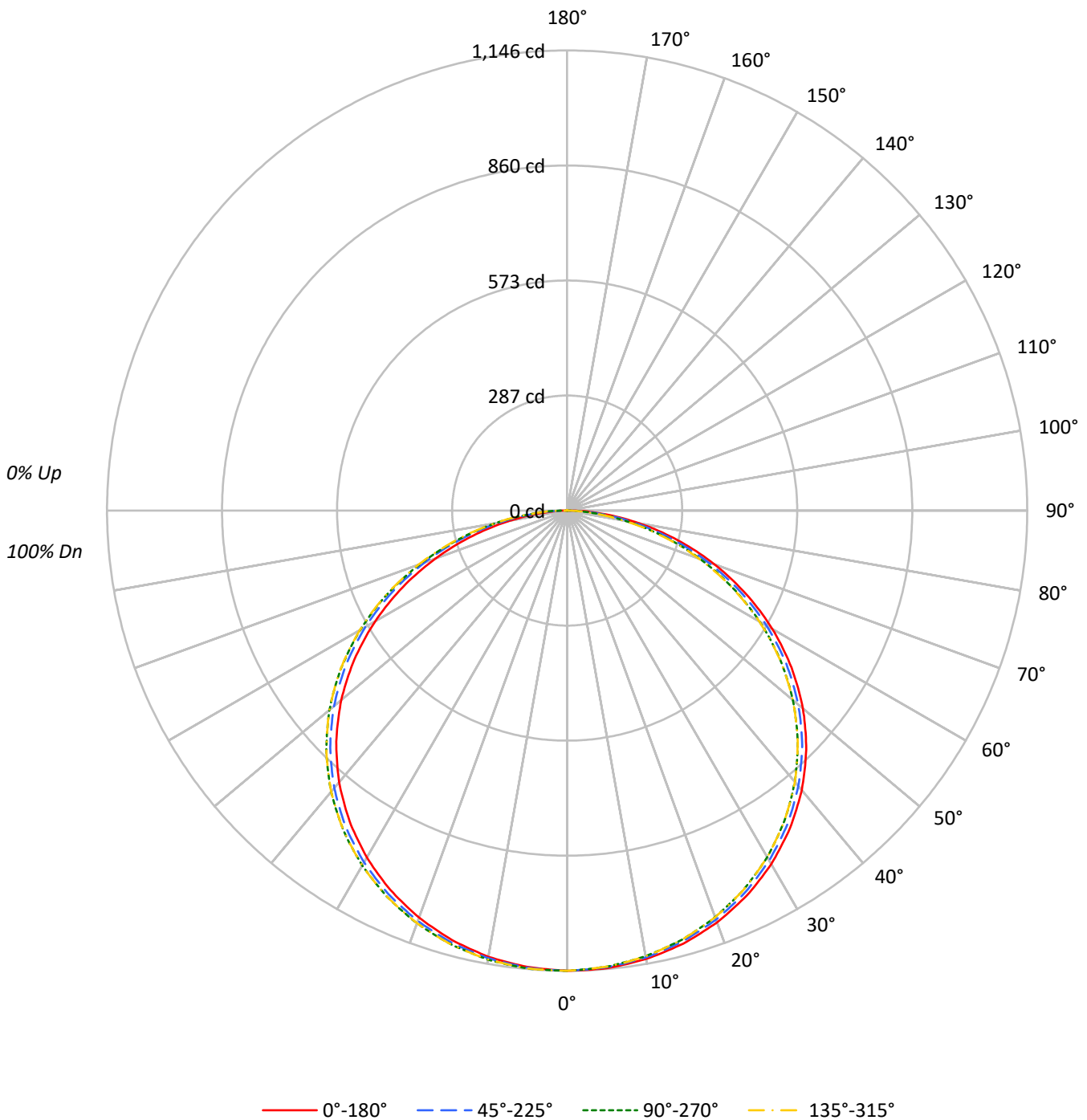
Lumens per Lamp: N/A
Luminaire Lumens: 3581.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 32.6
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: P364314
CATALOG NUMBER: 22CGT3540C-347

Luminous Intensity Polar Plot





TEST NUMBER: P364314

CATALOG NUMBER: 22CGT3540C-347

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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3084	3084	3084	3084
5°	3090	3080	3082	3092
10°	3099	3079	3083	3103
15°	3111	3082	3085	3115
20°	3126	3086	3089	3133
25°	3142	3091	3095	3151
30°	3159	3096	3100	3172
35°	3176	3100	3104	3193
40°	3193	3099	3104	3212
45°	3205	3091	3095	3228
50°	3209	3073	3074	3235
55°	3201	3039	3036	3230
60°	3177	2982	2974	3204
65°	3131	2893	2880	3155
70°	3061	2780	2739	3071
75°	2960	2583	2536	2942
80°	2808	2283	2230	2814
85°	2643	1775	1615	2538



TEST NUMBER: P364314

CATALOG NUMBER: 22CGT3540C-347

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.0
10°-20°	314.2	8.8
20°-30°	484.7	13.5
30°-40°	599.1	16.7
40°-50°	639.7	17.9
50°-60°	596.1	16.6
60°-70°	469.6	13.1
70°-80°	281.8	7.9
80°-90°	84.4	2.4
90°-100°	1.9	0.1
100°-110°	0.2	0.0
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.3	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	907.6	25.3
0°-40°	1506.7	42.1
0°-60°	2742.5	76.6
0°-90°	3578.3	99.9
90°-120°	2.4	0.1
90°-150°	3.2	0.1
90°-180°	4.0	0.1
0°-180°	3581.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1146	1146	1146	1146	1146	
5°	1144	1140	1141	1145	1144	109
15°	1117	1106	1107	1118	1117	315
25°	1058	1041	1042	1061	1058	488
35°	967	944	945	972	967	605
45°	842	812	813	848	842	649
55°	682	648	647	688	682	609
65°	492	454	452	496	492	486
75°	285	248	244	283	285	301
85°	86	58	52	82	86	91
90°	14	0	5	12	14	15
95°	0	0	0	0	0	3
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



TEST NUMBER: P364314

CATALOG NUMBER: 22CGT3540C-347

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
5°	1143.9	1143.4	1143.0	1142.0	1142.3	1141.1	1141.2	1141.0	1140.5	1140.2	1140.0
10°	1134.0	1133.3	1132.5	1131.2	1130.8	1129.3	1128.6	1128.3	1127.8	1126.8	1126.2
15°	1116.6	1115.5	1114.6	1112.5	1111.9	1109.8	1109.1	1108.0	1107.3	1106.2	1105.3
20°	1091.5	1089.8	1088.4	1086.2	1085.3	1082.6	1081.3	1079.9	1079.0	1077.5	1076.5
25°	1058.2	1056.2	1054.7	1051.9	1050.8	1047.7	1046.1	1044.0	1042.8	1041.0	1039.8
30°	1016.7	1014.2	1013.1	1009.9	1008.1	1004.3	1002.9	1000.2	998.4	996.5	995.1
35°	966.9	963.9	963.0	959.1	957.3	953.2	951.0	948.0	945.9	943.6	941.8
40°	909.0	905.9	904.1	900.2	898.1	893.5	891.1	887.4	885.4	882.1	880.4
45°	842.2	838.5	837.1	832.6	830.6	825.3	822.5	818.1	815.5	812.3	810.2
50°	766.6	763.0	761.0	756.4	754.2	748.5	745.0	740.4	737.4	734.1	731.7
55°	682.2	678.6	676.9	671.9	669.5	663.5	659.8	654.4	651.1	647.8	645.2
60°	590.3	586.5	584.8	580.1	577.4	570.8	567.1	560.8	557.4	554.1	551.2
65°	491.8	487.7	486.1	480.9	478.2	471.3	467.2	460.6	456.8	454.4	451.2
70°	389.0	384.0	383.3	377.0	375.8	367.4	365.0	356.2	355.3	353.3	347.1
75°	284.7	278.7	279.0	271.5	270.7	261.9	259.6	251.1	249.5	248.4	242.8
80°	181.2	176.2	175.5	169.0	167.2	161.2	157.2	150.3	148.0	147.3	142.8
85°	85.6	81.1	80.6	74.5	72.8	66.1	64.0	58.0	57.3	57.5	52.6
90°	13.5	11.6	10.1	0.8	7.7	8.9	0.1	0.6	0.1	0.1	0.1
95°	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	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	0.3	0.3	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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2
125°	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
130°	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
135°	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3
140°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
145°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
150°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
155°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4
170°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
175°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
180°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P364314

CATALOG NUMBER: 22CGT3540C-347

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
5°	1140.6	1139.7	1140.4	1140.1	1140.7	1140.3	1140.7	1140.9	1141.4	1142.1	1141.6
10°	1127.4	1127.0	1127.2	1127.1	1127.3	1127.4	1127.8	1128.3	1128.9	1129.6	1130.3
15°	1106.3	1106.1	1106.5	1106.2	1106.8	1106.4	1107.0	1107.4	1108.7	1110.0	1111.0
20°	1077.7	1077.7	1078.1	1077.6	1077.9	1077.6	1078.4	1078.8	1080.8	1082.3	1084.1
25°	1041.2	1041.2	1041.4	1040.8	1040.9	1040.6	1041.8	1042.3	1044.6	1046.6	1049.5
30°	996.7	996.6	997.0	996.0	996.3	996.0	997.2	997.8	1000.8	1003.1	1006.7
35°	943.8	943.3	944.1	942.6	943.0	942.5	943.9	944.8	948.6	951.3	955.5
40°	882.4	882.0	883.1	881.5	881.4	880.5	882.3	883.5	887.5	890.7	895.6
45°	812.6	811.9	812.9	811.1	811.0	810.4	812.2	813.3	817.6	821.5	827.1
50°	734.0	733.7	734.5	732.6	732.2	731.3	733.2	734.3	739.2	743.4	749.8
55°	647.7	647.4	648.1	645.5	645.2	644.1	646.3	647.1	652.6	657.2	664.2
60°	553.6	553.4	554.0	551.4	550.8	549.3	551.6	552.6	558.4	563.2	570.8
65°	453.6	453.0	453.6	450.8	450.4	448.9	451.1	452.3	458.0	463.3	471.2
70°	352.1	348.5	352.0	346.4	348.8	344.4	349.6	348.1	356.6	358.9	369.0
75°	246.8	243.8	246.5	241.6	243.5	240.4	244.9	243.9	251.6	253.9	263.8
80°	146.1	143.3	145.0	141.2	142.4	140.4	144.2	143.9	150.3	153.0	161.2
85°	55.5	51.8	53.9	49.5	54.4	49.0	55.9	52.3	58.6	59.8	66.6
90°	0.1	5.1	0.1	4.6	0.1	4.2	0.1	5.0	0.1	0.6	0.1
95°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
100°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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°	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
120°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
125°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
130°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
135°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4
140°	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
145°	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4
150°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4
165°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4
170°	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
175°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4
180°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P364314

CATALOG NUMBER: 22CGT3540C-347

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
5°	1142.6	1142.8	1143.7	1144.1	1144.3	1144.7	1144.3	1144.6	1144.4	1144.3	1144.4
10°	1131.5	1132.4	1133.4	1134.7	1134.8	1135.5	1135.1	1135.7	1135.3	1134.9	1135.3
15°	1112.9	1114.2	1115.6	1117.3	1117.8	1118.3	1118.8	1118.7	1118.5	1118.1	1118.7
20°	1086.6	1088.4	1090.5	1092.6	1092.6	1093.9	1094.2	1094.2	1093.9	1093.6	1093.9
25°	1052.5	1054.9	1057.1	1059.4	1059.8	1061.3	1061.9	1061.6	1061.8	1061.1	1061.4
30°	1010.1	1013.4	1016.0	1018.7	1019.1	1020.9	1021.4	1021.0	1021.0	1020.6	1021.3
35°	959.5	963.3	966.0	969.4	970.0	972.0	972.7	972.2	972.2	971.4	972.3
40°	899.8	904.6	907.8	911.5	912.3	914.5	915.5	914.7	914.7	914.0	914.8
45°	831.8	837.2	840.3	844.7	845.4	848.2	849.3	848.1	848.2	847.6	848.5
50°	754.9	761.2	764.6	768.7	770.2	772.7	774.0	772.8	772.9	772.4	773.6
55°	670.2	676.5	680.3	684.6	686.3	688.4	690.0	688.6	688.9	688.4	689.9
60°	576.9	583.8	587.9	592.2	594.1	595.4	597.6	596.2	597.0	596.4	598.1
65°	477.5	484.7	488.5	493.5	494.6	495.5	498.0	496.6	497.4	496.9	498.9
70°	372.7	381.8	383.9	389.4	390.1	390.3	394.0	391.5	393.3	392.1	395.1
75°	267.1	276.5	277.3	284.9	283.6	283.0	288.1	284.3	287.5	284.6	289.7
80°	164.2	172.5	174.0	180.1	182.7	181.6	182.9	182.3	181.9	182.8	184.0
85°	69.2	76.2	78.0	83.4	83.7	82.2	85.7	82.8	84.7	83.0	86.5
90°	9.8	8.5	1.4	13.2	12.9	12.1	13.8	12.5	13.5	12.7	13.7
95°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
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	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
120°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
125°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
130°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
135°	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
140°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4
145°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
150°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3
155°	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4
165°	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4
170°	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4
180°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P364314

CATALOG NUMBER: 22CGT3540C-347

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1146.1	1146.1	1146.1	1146.1
5°	1144.5	1144.1	1143.9	1143.9
10°	1135.2	1135.2	1135.1	1134.0
15°	1118.3	1118.0	1117.3	1116.6
20°	1093.8	1093.2	1091.8	1091.5
25°	1061.2	1060.5	1058.9	1058.2
30°	1020.5	1019.7	1017.8	1016.7
35°	971.5	970.7	968.4	966.9
40°	914.1	913.1	910.4	909.0
45°	847.5	846.6	843.4	842.2
50°	772.6	771.3	767.9	766.6
55°	688.6	687.5	683.8	682.2
60°	596.3	595.6	591.8	590.3
65°	497.6	497.0	493.0	491.8
70°	393.1	393.8	388.6	389.0
75°	286.4	288.9	283.1	284.7
80°	180.9	184.1	180.2	181.2
85°	85.7	87.4	84.7	85.6
90°	14.1	13.7	13.6	13.5
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°	0.4	0.4	0.4	0.4
125°	0.4	0.4	0.4	0.4
130°	0.4	0.4	0.5	0.5
135°	0.4	0.5	0.5	0.4
140°	0.4	0.4	0.4	0.4
145°	0.4	0.4	0.4	0.4
150°	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.3
160°	0.4	0.4	0.4	0.4
165°	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.3
180°	0.4	0.4	0.4	0.4

(END OF REPORT)