

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: P328414

Luminaire Tested: **22CGT3535C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328414
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: 22CGT3535C
Description: 3500 LUMEN, 2X2 CGT LED TROFFER WITH 3500 CCT LEDS

Light Source: -
Ballast/Driver: -

Summary

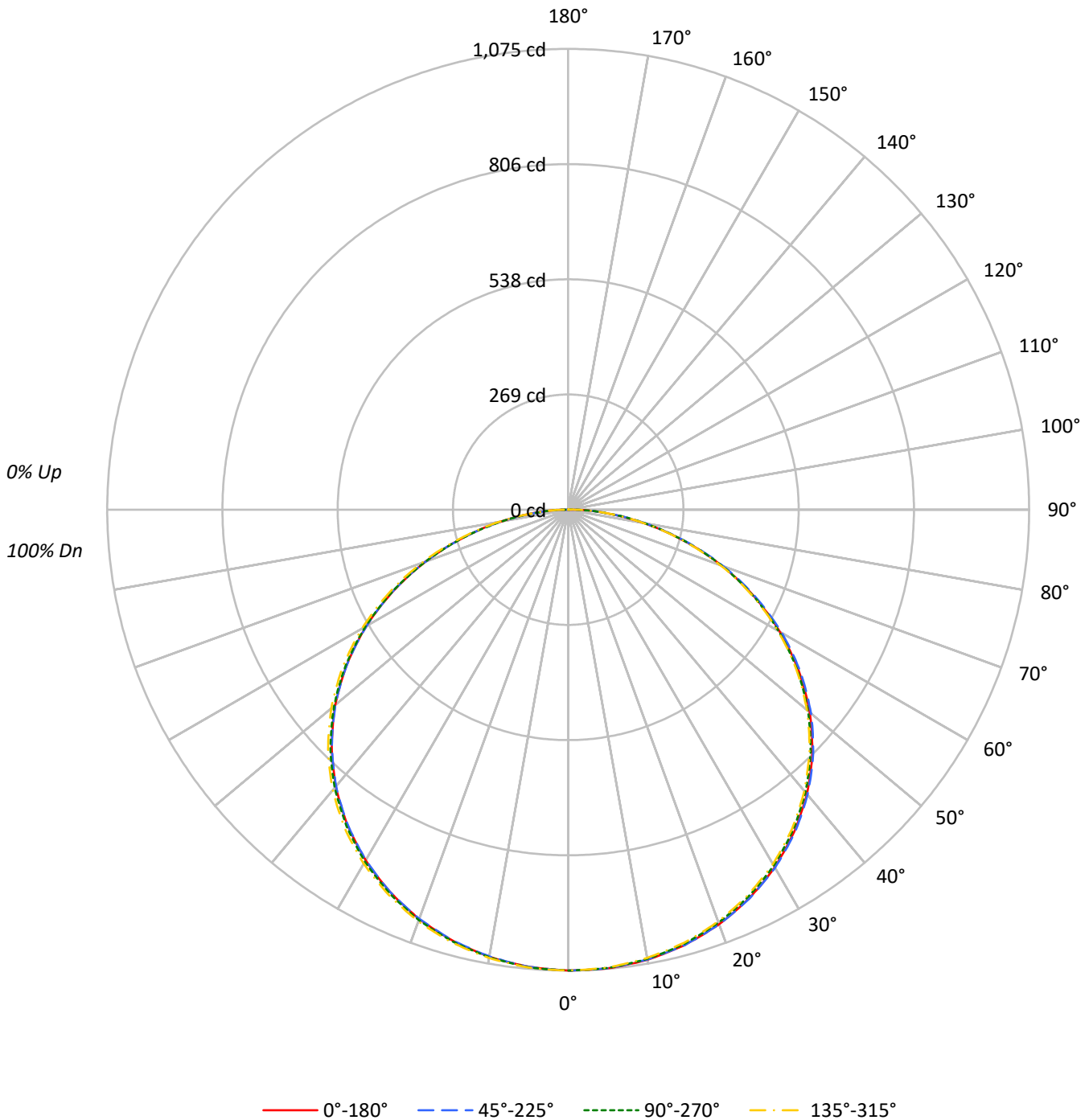
Lumens per Lamp: N/A
Luminaire Lumens: 3449.2 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.45
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 31.4
Input Voltage (V): NR
Input Current (A_{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



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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°	2893	2893	2893	2893
5°	2901	2898	2891	2894
10°	2913	2907	2895	2897
15°	2928	2920	2900	2905
20°	2947	2935	2910	2918
25°	2969	2956	2921	2930
30°	2994	2979	2935	2946
35°	3017	3001	2949	2960
40°	3043	3022	2962	2975
45°	3065	3043	2968	2985
50°	3079	3055	2969	2983
55°	3082	3061	2956	2972
60°	3070	3050	2926	2940
65°	3047	3035	2869	2881
70°	2995	2991	2781	2784
75°	2894	2906	2646	2637
80°	2754	2797	2458	2422
85°	2609	2726	2130	2062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.0
10°-20°	295.4	8.6
20°-30°	457.4	13.3
30°-40°	568.4	16.5
40°-50°	611.4	17.7
50°-60°	575.4	16.7
60°-70°	460.5	13.4
70°-80°	283.1	8.2
80°-90°	91.2	2.6
90°-100°	3.1	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°	854.8	24.8
0°-40°	1423.2	41.3
0°-60°	2610.0	75.7
0°-90°	3444.8	99.9
90°-120°	3.5	0.1
90°-150°	4.2	0.1
90°-180°	4.0	0.1
0°-180°	3449.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1075	1075	1075	1075	1075	
5°	1074	1073	1070	1071	1074	102
15°	1051	1048	1041	1043	1051	297
25°	1000	996	984	987	1000	461
35°	918	914	898	901	918	575
45°	805	800	780	784	805	621
55°	657	652	630	633	657	586
65°	479	477	450	452	479	473
75°	278	280	254	254	278	294
85°	84	88	69	67	84	89
90°	11	16	11	10	11	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°	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0
5°	1073.9	1073.6	1073.9	1074.3	1073.6	1073.2	1073.0	1073.0	1073.0	1073.0	1072.4
10°	1066.1	1065.9	1066.4	1066.3	1065.4	1064.8	1064.6	1064.6	1064.1	1063.8	1063.3
15°	1051.1	1051.7	1051.7	1051.6	1051.7	1050.6	1049.6	1049.4	1048.1	1048.3	1047.3
20°	1029.2	1029.2	1030.3	1030.3	1029.7	1028.6	1028.5	1026.9	1025.7	1024.9	1024.0
25°	1000.0	1000.2	1001.1	1001.3	1001.6	999.8	999.3	997.8	996.3	995.5	994.7
30°	963.4	964.2	965.0	965.6	965.3	963.6	962.6	961.2	959.3	958.6	957.2
35°	918.4	920.0	921.5	921.5	921.4	919.9	918.5	916.1	914.4	913.5	912.3
40°	866.2	867.2	869.3	869.4	869.3	867.5	866.1	864.0	861.6	860.4	859.1
45°	805.3	805.8	808.5	808.6	809.2	806.9	805.3	802.4	800.4	799.7	797.8
50°	735.4	736.6	739.2	739.4	740.5	737.8	736.5	733.4	730.9	729.8	728.4
55°	656.9	658.1	661.0	661.4	662.7	660.1	658.7	655.1	653.0	652.4	651.5
60°	570.4	571.6	575.1	575.5	576.6	574.3	572.7	569.6	567.0	566.7	565.9
65°	478.6	478.1	483.3	481.8	484.7	480.9	481.8	476.3	476.3	476.6	473.9
70°	380.7	378.7	385.5	382.8	387.1	381.9	383.8	377.6	378.6	380.2	376.1
75°	278.3	277.2	282.7	280.4	284.5	280.1	281.7	276.4	277.1	279.5	276.2
80°	177.7	177.4	181.6	179.9	183.0	179.5	180.6	176.9	177.3	180.5	178.5
85°	84.5	84.0	87.5	85.7	88.3	85.5	86.6	83.9	84.7	88.3	86.5
90°	11.4	20.2	14.4	15.1	14.8	15.1	14.2	14.6	11.6	15.8	16.6
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	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.2	0.2
125°	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.2	0.2
130°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.2	0.2
135°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	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	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
150°	0.2	0.2	0.2	0.2	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	0.2	0.2	0.2	0.2	0.2
160°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2
165°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
170°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2
175°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	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°	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0
5°	1072.0	1072.3	1071.5	1072.2	1070.3	1070.5	1070.8	1070.1	1069.9	1069.9	1070.1
10°	1062.9	1062.8	1061.6	1061.3	1060.6	1060.2	1059.4	1059.3	1058.7	1058.1	1058.8
15°	1047.5	1046.4	1046.0	1045.3	1043.5	1042.6	1041.7	1041.1	1040.1	1039.7	1040.3
20°	1024.6	1024.0	1022.3	1022.3	1020.0	1018.3	1016.7	1016.1	1015.6	1014.2	1015.1
25°	994.8	994.0	992.3	991.6	989.3	987.0	985.8	983.8	982.7	982.5	982.9
30°	957.0	956.4	955.2	953.9	950.6	948.7	946.5	944.5	943.6	942.8	944.0
35°	912.5	912.0	910.3	909.1	905.3	902.3	899.8	897.7	897.0	895.5	897.0
40°	860.0	859.3	857.6	855.5	851.8	848.2	846.1	843.1	842.4	840.8	842.4
45°	798.9	798.2	796.9	794.9	790.7	786.3	783.6	779.8	779.2	777.5	779.0
50°	729.5	729.1	727.8	725.5	721.0	715.8	712.9	709.3	708.1	706.5	707.8
55°	652.5	652.2	651.0	648.2	643.4	637.9	634.4	630.1	629.1	627.2	629.1
60°	567.8	567.0	566.2	563.1	558.0	552.0	548.2	543.6	542.5	540.6	542.3
65°	477.9	475.2	476.4	471.1	468.2	459.7	459.0	450.5	452.8	447.9	452.7
70°	381.3	377.9	380.0	373.5	371.5	362.2	361.2	353.5	354.7	350.2	354.4
75°	280.7	277.9	279.5	273.8	271.6	263.3	261.7	254.5	255.6	251.2	254.5
80°	181.8	179.6	180.4	175.9	173.2	166.5	164.4	158.6	158.7	155.0	157.0
85°	89.3	86.9	87.4	83.4	81.4	75.6	74.1	69.0	69.6	65.5	67.7
90°	16.1	16.6	14.9	20.3	10.5	2.0	8.6	10.7	7.2	0.4	0.2
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	0.2	0.4	0.3
105°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
110°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
125°	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
130°	0.2	0.3	0.3	0.2	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°	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
145°	0.2	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	0.2	0.3	0.3
155°	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3
160°	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3
165°	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
170°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	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°	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0
5°	1070.1	1070.1	1069.9	1070.4	1070.7	1071.2	1071.2	1071.2	1071.7	1071.6	1072.3
10°	1057.8	1058.4	1059.2	1059.7	1059.9	1060.1	1060.8	1060.6	1061.0	1061.4	1062.6
15°	1039.9	1040.4	1041.1	1042.3	1042.0	1042.8	1043.5	1043.9	1044.1	1044.8	1046.0
20°	1014.7	1016.0	1016.6	1017.2	1017.7	1018.8	1018.6	1019.3	1020.1	1021.1	1023.1
25°	983.0	983.8	984.1	985.8	986.1	986.9	987.7	988.4	989.3	989.9	992.6
30°	943.4	944.3	945.2	946.6	947.1	948.1	948.9	949.6	951.0	952.6	954.9
35°	896.0	897.5	898.4	900.2	900.6	901.1	902.5	902.9	905.6	906.4	909.6
40°	841.3	843.1	844.5	845.2	846.5	846.9	848.0	849.1	850.8	852.5	855.8
45°	778.3	780.7	781.1	782.6	783.4	784.3	785.3	786.3	788.4	790.4	793.5
50°	707.4	709.6	710.5	711.7	712.5	712.6	714.7	715.2	717.9	719.6	722.7
55°	628.8	630.7	631.6	632.7	633.4	633.4	635.2	635.6	638.7	640.9	644.3
60°	542.1	544.4	545.0	546.5	547.2	546.2	548.4	548.5	551.8	553.9	557.3
65°	449.2	454.3	451.9	456.8	454.1	452.5	457.8	454.6	461.0	459.9	465.6
70°	351.3	356.3	353.8	358.2	355.9	353.9	358.3	356.0	361.5	360.4	367.0
75°	251.6	256.0	253.8	258.4	256.2	253.6	257.4	255.1	259.7	259.4	265.0
80°	154.9	158.1	157.4	160.8	159.5	156.3	159.3	157.1	160.6	160.6	165.1
85°	65.1	68.6	67.4	71.2	69.9	66.8	69.8	67.1	70.3	69.6	73.5
90°	13.3	7.0	10.4	7.9	11.6	10.0	7.3	10.1	7.3	10.8	8.2
95°	0.2	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	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
120°	0.3	0.3	0.3	0.2	0.2	0.4	0.3	0.3	0.3	0.3	0.3
125°	0.3	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.3	0.3	0.3
130°	0.3	0.3	0.3	0.2	0.2	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	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
150°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
155°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
160°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
165°	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
170°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
175°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	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: P328414
 CATALOG NUMBER: 22CGT3535C

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1075.0	1075.0	1075.0	1075.0
5°	1072.1	1072.9	1073.1	1073.9
10°	1062.7	1064.2	1064.8	1066.1
15°	1046.8	1048.8	1049.6	1051.1
20°	1023.8	1025.9	1027.3	1029.2
25°	993.9	996.2	998.3	1000.0
30°	956.4	959.5	960.9	963.4
35°	911.5	915.0	916.3	918.4
40°	858.2	861.5	863.6	866.2
45°	796.5	800.5	802.1	805.3
50°	726.1	730.4	731.9	735.4
55°	647.2	651.2	653.2	656.9
60°	560.6	564.8	566.4	570.4
65°	466.7	473.3	472.8	478.6
70°	367.4	375.1	373.7	380.7
75°	265.9	272.8	271.7	278.3
80°	166.6	172.5	172.5	177.7
85°	74.5	79.5	79.9	84.5
90°	1.1	9.8	3.3	11.4
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	0.3	0.3
125°	0.3	0.4	0.4	0.4
130°	0.3	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	0.2	0.3	0.2
155°	0.2	0.2	0.3	0.2
160°	0.2	0.2	0.3	0.2
165°	0.3	0.3	0.3	0.3
170°	0.3	0.3	0.2	0.2
175°	0.3	0.3	0.2	0.2
180°	0.3	0.3	0.3	0.3

(END OF REPORT)