

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: P364318

Luminaire Tested: **14CGT4040C-347**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (IDL-RB2A40JL1-D30W0XL)
Test Lab: ETA Testing Technology Co., Ltd.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CGT4040C-347
Description: 4000 LUMEN, 1X4 347V CGT LED TROFFER WITH 4000 CCT LEDS

Light Source: -
Ballast/Driver: -

Summary

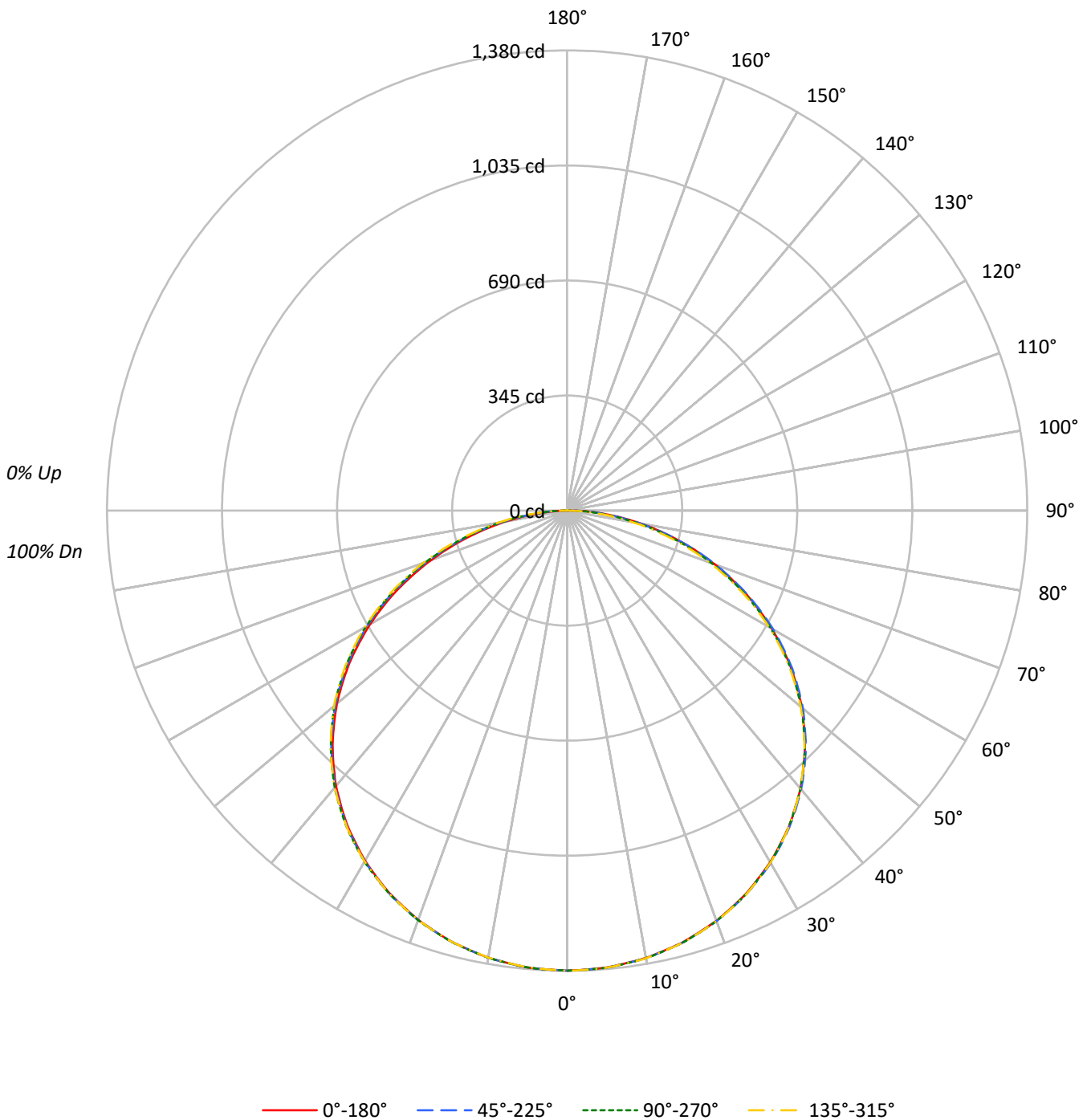
Lumens per Lamp: N/A
Luminaire Lumens: 4350.6 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.44
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.9
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	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52		62	56	51		60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		44	38	33	31
8	59	45	37	31	58	45	36	30	43	36	30		42	35	30		41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	24		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3713	3713	3713	3713
5°	3715	3717	3715	3716
10°	3722	3724	3720	3721
15°	3734	3737	3729	3731
20°	3749	3751	3740	3744
25°	3766	3768	3754	3759
30°	3784	3787	3767	3777
35°	3805	3806	3780	3794
40°	3824	3823	3789	3810
45°	3838	3836	3786	3816
50°	3846	3836	3774	3816
55°	3842	3825	3740	3795
60°	3818	3789	3675	3752
65°	3773	3727	3573	3671
70°	3704	3627	3419	3548
75°	3608	3487	3191	3356
80°	3459	3253	2847	3092
85°	3356	2933	2161	2637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	3.0
10°-20°	378.5	8.7
20°-30°	584.6	13.4
30°-40°	723.6	16.6
40°-50°	774.6	17.8
50°-60°	724.5	16.7
60°-70°	574.1	13.2
70°-80°	348.3	8.0
80°-90°	107.1	2.5
90°-100°	2.4	0.1
100°-110°	0.2	0.0
110°-120°	0.3	0.0
120°-130°	0.4	0.0
130°-140°	0.4	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1094.0	25.1
0°-40°	1817.6	41.8
0°-60°	3316.7	76.2
0°-90°	4346.2	99.9
90°-120°	3.0	0.1
90°-150°	4.0	0.1
90°-180°	4.0	0.1
0°-180°	4350.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1380	1380	1380	1380	1380	
5°	1375	1376	1375	1376	1375	131
15°	1340	1341	1339	1339	1340	379
25°	1268	1269	1264	1266	1268	585
35°	1158	1158	1151	1155	1158	725
45°	1008	1008	995	1003	1008	778
55°	819	815	797	809	819	731
65°	593	585	561	576	593	586
75°	347	335	307	323	347	366
85°	109	95	70	85	109	114
90°	19	12	0	1	19	20
95°	0	0	0	0	0	4
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	1	0	0	1	1	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°	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9
5°	1375.4	1375.8	1375.8	1375.8	1375.6	1376.1	1375.9	1375.8	1376.0	1376.0	1376.2
10°	1362.2	1362.9	1363.1	1362.6	1362.7	1363.1	1363.2	1362.8	1363.2	1363.0	1363.6
15°	1340.3	1340.6	1340.8	1340.7	1340.9	1341.2	1341.5	1341.6	1341.9	1341.3	1341.9
20°	1309.1	1309.4	1310.2	1309.9	1310.6	1310.8	1311.1	1310.5	1310.9	1309.9	1310.6
25°	1268.5	1268.7	1269.8	1269.6	1270.1	1270.3	1270.6	1270.3	1270.2	1269.1	1270.0
30°	1217.8	1218.3	1220.0	1219.9	1220.8	1220.7	1221.2	1220.2	1220.4	1218.7	1220.1
35°	1158.4	1158.7	1160.3	1160.2	1161.4	1160.8	1161.6	1160.5	1160.4	1158.5	1160.0
40°	1088.6	1088.5	1090.7	1090.4	1092.1	1091.8	1092.5	1091.4	1090.7	1088.3	1089.7
45°	1008.4	1008.9	1011.1	1011.1	1012.5	1012.1	1012.7	1010.9	1011.0	1008.0	1008.9
50°	918.8	919.1	921.7	921.8	923.0	922.6	923.1	920.7	919.5	916.4	917.7
55°	818.9	819.2	822.3	821.9	824.0	822.6	822.5	820.0	818.3	815.2	815.8
60°	709.5	709.8	713.2	713.1	714.9	713.1	713.2	709.6	707.4	704.1	704.7
65°	592.6	592.8	595.9	595.4	597.8	595.4	595.2	590.8	588.2	585.3	585.1
70°	470.8	469.5	473.9	472.1	474.8	471.2	471.6	465.6	463.9	461.0	459.2
75°	347.0	344.0	350.0	345.5	349.9	343.8	345.8	337.6	337.7	335.4	331.1
80°	223.2	221.3	225.6	222.0	224.4	218.0	219.9	213.2	211.6	209.9	206.9
85°	108.7	107.0	110.2	106.6	108.2	103.1	103.4	97.0	96.3	95.0	91.6
90°	18.9	13.7	19.4	13.2	17.9	17.1	16.3	13.8	11.6	11.5	1.5
95°	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
100°	0.1	0.1	0.2	0.2	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	0.3	0.3
110°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
115°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
120°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
125°	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.3	0.3
130°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.3	0.3
135°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.3	0.3
140°	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
145°	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.4
150°	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.4
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4
170°	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4
175°	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9
5°	1376.6	1376.2	1376.1	1376.1	1376.0	1375.7	1375.3	1375.3	1375.4	1375.4	1375.3
10°	1363.8	1363.7	1363.4	1363.0	1362.6	1362.3	1362.0	1361.5	1361.5	1361.2	1361.4
15°	1342.3	1342.1	1341.8	1341.1	1340.2	1339.4	1339.3	1338.6	1339.0	1338.3	1338.7
20°	1311.5	1311.2	1310.9	1309.6	1308.7	1307.5	1307.3	1306.0	1306.6	1306.0	1306.8
25°	1271.3	1270.9	1270.8	1269.4	1267.6	1266.1	1265.4	1264.3	1264.8	1263.8	1265.3
30°	1221.7	1221.2	1220.9	1218.6	1217.2	1215.1	1214.0	1212.4	1213.3	1212.7	1214.4
35°	1162.3	1161.1	1160.5	1157.9	1155.8	1153.2	1152.2	1150.6	1151.7	1151.0	1152.7
40°	1091.6	1090.5	1089.8	1087.1	1084.1	1081.1	1080.4	1078.5	1079.3	1078.7	1081.0
45°	1011.3	1009.7	1008.7	1005.1	1002.3	998.4	997.5	994.9	996.3	995.8	998.6
50°	919.3	917.9	917.1	912.7	909.2	904.9	904.0	901.5	902.8	902.6	905.8
55°	818.3	815.8	814.8	810.0	805.8	800.8	799.8	797.2	798.7	798.7	802.3
60°	706.6	703.8	702.5	697.1	692.3	687.2	685.9	682.8	684.9	685.3	689.5
65°	586.8	583.5	581.5	576.0	570.8	565.7	564.4	561.2	563.4	563.9	568.5
70°	461.6	456.7	457.3	448.7	446.4	438.2	440.3	434.5	439.3	437.2	444.4
75°	335.0	328.1	328.9	320.2	318.1	310.2	312.3	306.9	311.4	309.3	316.5
80°	208.8	202.8	202.5	194.9	192.5	186.3	187.8	183.7	187.1	185.9	191.5
85°	93.1	87.0	85.9	79.3	77.0	72.1	74.0	70.0	73.7	71.8	76.8
90°	10.7	0.6	8.5	9.7	0.2	0.3	0.2	0.3	0.2	0.6	0.2
95°	0.2	0.2	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°	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
110°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3
115°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
120°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
125°	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4
130°	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
135°	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
140°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4
145°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
150°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
160°	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
165°	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
175°	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9	1379.9
5°	1375.2	1375.1	1375.4	1375.3	1375.2	1375.5	1375.2	1374.7	1374.9	1374.5	1374.7
10°	1361.3	1361.7	1361.4	1361.6	1361.4	1361.8	1361.5	1360.7	1361.1	1360.7	1361.4
15°	1338.5	1338.8	1338.6	1338.5	1338.8	1339.2	1337.1	1337.7	1338.5	1338.3	1339.2
20°	1306.5	1307.3	1306.7	1306.7	1306.3	1307.4	1306.3	1305.5	1306.3	1306.1	1307.3
25°	1265.6	1266.3	1265.2	1265.3	1265.3	1266.0	1265.1	1263.9	1264.9	1265.0	1266.4
30°	1213.9	1215.0	1214.7	1215.0	1214.8	1215.6	1214.1	1212.8	1214.1	1214.3	1215.7
35°	1152.5	1154.4	1153.6	1153.6	1153.7	1154.9	1153.5	1151.5	1153.3	1153.7	1155.4
40°	1080.8	1083.0	1082.4	1083.2	1082.5	1084.5	1082.3	1080.9	1082.6	1083.0	1085.3
45°	999.0	1001.7	1000.5	1001.4	1000.9	1002.8	1001.4	999.4	1001.5	1002.0	1004.9
50°	906.3	908.8	908.3	909.5	909.1	911.4	909.2	907.9	910.2	911.4	914.3
55°	803.6	806.3	805.9	807.0	807.1	808.8	808.0	805.6	809.0	810.3	813.7
60°	690.8	694.1	693.8	695.3	695.5	697.2	696.1	694.4	698.3	699.8	703.7
65°	570.0	573.8	573.6	575.7	575.4	576.5	576.5	574.7	578.9	581.0	585.5
70°	443.5	449.8	447.2	452.0	449.7	450.9	452.8	449.6	456.4	456.0	462.4
75°	315.3	322.0	319.1	325.1	322.3	322.8	325.8	322.2	329.3	328.8	337.0
80°	192.4	196.5	194.4	200.1	199.5	199.5	200.7	199.5	204.6	205.6	212.4
85°	76.5	81.5	80.7	86.0	85.6	85.4	87.6	85.5	90.6	91.0	97.6
90°	8.7	0.2	11.0	8.7	0.4	0.6	9.3	0.7	10.2	1.1	12.3
95°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
110°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
115°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
120°	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5
125°	0.4	0.4	0.4	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5
130°	0.4	0.4	0.4	0.4	0.3	0.6	0.6	0.5	0.5	0.5	0.5
135°	0.4	0.4	0.4	0.3	0.4	0.6	0.6	0.5	0.5	0.5	0.5
140°	0.4	0.4	0.4	0.3	0.4	0.5	0.5	0.5	0.4	0.5	0.5
145°	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.5
150°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
155°	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4
160°	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
165°	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
170°	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.5
175°	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P364318

CATALOG NUMBER: 14CGT4040C-347

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1379.9	1379.9	1379.9	1379.9
5°	1375.5	1375.5	1375.4	1375.4
10°	1362.3	1361.8	1362.7	1362.2
15°	1339.2	1340.0	1339.8	1340.3
20°	1307.6	1308.6	1308.1	1309.1
25°	1267.5	1268.1	1267.5	1268.5
30°	1216.9	1217.6	1217.2	1217.8
35°	1156.3	1157.7	1157.0	1158.4
40°	1086.4	1087.7	1087.0	1088.6
45°	1005.9	1007.9	1006.7	1008.4
50°	915.7	917.6	916.6	918.8
55°	815.6	817.5	816.3	818.9
60°	705.7	708.2	707.3	709.5
65°	588.0	590.6	589.8	592.6
70°	464.2	468.4	466.7	470.8
75°	337.6	344.0	340.7	347.0
80°	214.4	220.0	216.4	223.2
85°	99.5	105.1	104.3	108.7
90°	15.5	16.8	18.6	18.9
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°	0.3	0.3	0.3	0.3
115°	0.4	0.4	0.4	0.4
120°	0.5	0.5	0.5	0.5
125°	0.5	0.6	0.6	0.5
130°	0.5	0.6	0.6	0.6
135°	0.5	0.6	0.6	0.6
140°	0.5	0.6	0.6	0.6
145°	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5
155°	0.4	0.5	0.5	0.4
160°	0.4	0.5	0.4	0.4
165°	0.5	0.5	0.5	0.5
170°	0.4	0.4	0.4	0.4
175°	0.5	0.4	0.4	0.4
180°	0.5	0.5	0.5	0.5

(END OF REPORT)