

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: P364317

Luminaire Tested: **14CGT4035C-347**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364317
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: 14CGT4035C-347
Description: 4000 LUMEN, 1X4 347V CGT LED TROFFER WITH 3500 CCT LEDS

Light Source: -
Ballast/Driver: -

Summary

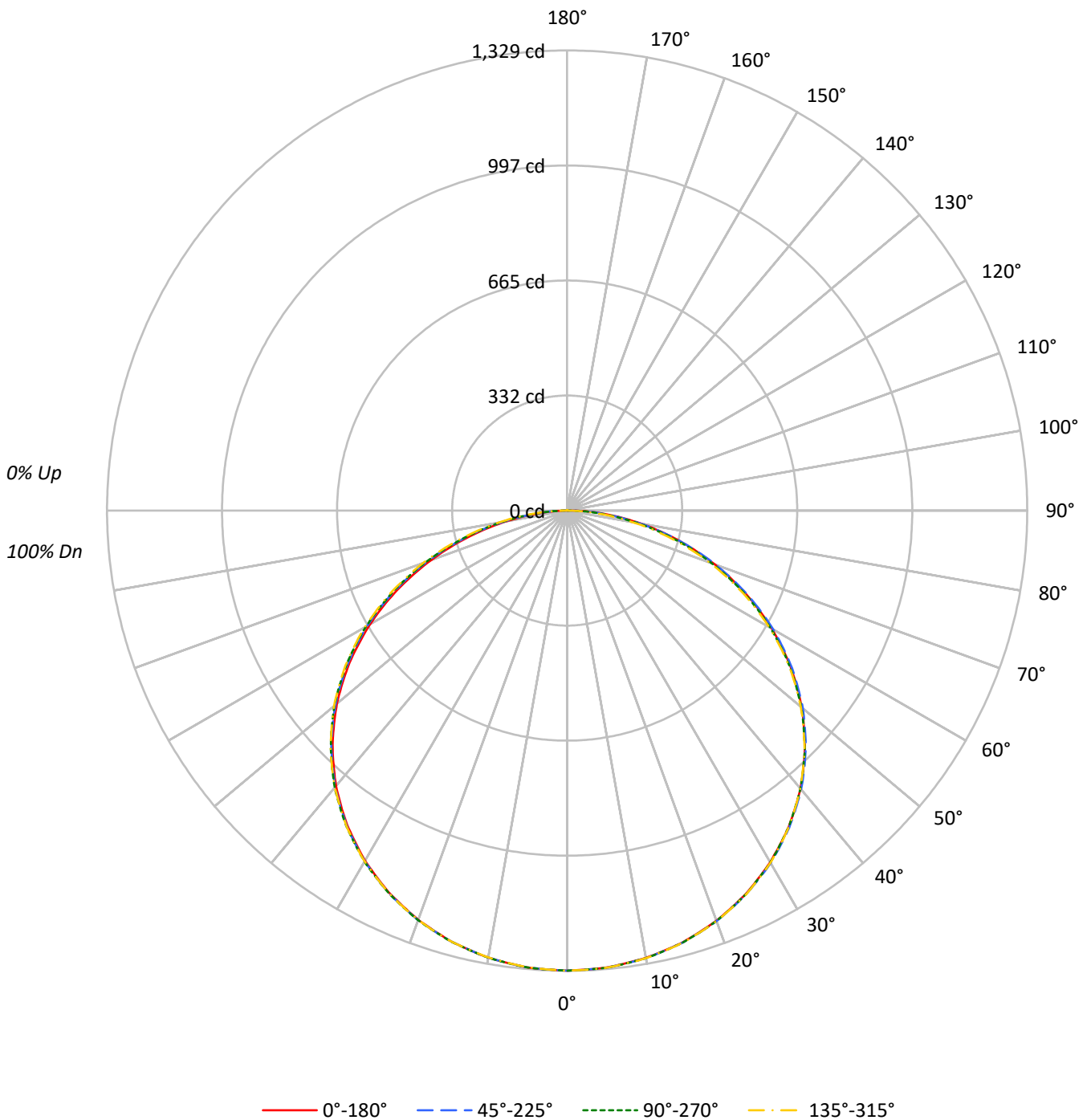
Lumens per Lamp: N/A
Luminaire Lumens: 4189.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.44
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3576	3576	3576	3576
5°	3578	3579	3577	3578
10°	3584	3586	3583	3583
15°	3596	3598	3591	3593
20°	3610	3612	3601	3605
25°	3627	3629	3615	3620
30°	3644	3647	3628	3637
35°	3665	3665	3640	3653
40°	3682	3681	3648	3668
45°	3695	3694	3646	3675
50°	3704	3694	3634	3674
55°	3700	3683	3602	3654
60°	3677	3650	3539	3613
65°	3633	3589	3441	3535
70°	3567	3493	3292	3416
75°	3474	3357	3072	3232
80°	3332	3132	2741	2978
85°	3233	2825	2081	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.0
10°-20°	364.5	8.7
20°-30°	562.9	13.4
30°-40°	696.8	16.6
40°-50°	745.9	17.8
50°-60°	697.7	16.7
60°-70°	552.8	13.2
70°-80°	335.4	8.0
80°-90°	103.2	2.5
90°-100°	2.3	0.1
100°-110°	0.2	0.0
110°-120°	0.3	0.0
120°-130°	0.4	0.0
130°-140°	0.3	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°	1053.5	25.1
0°-40°	1750.3	41.8
0°-60°	3193.9	76.2
0°-90°	4185.3	99.9
90°-120°	2.9	0.1
90°-150°	3.9	0.1
90°-180°	4.0	0.1
0°-180°	4189.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1329	1329	1329	1329	1329	
5°	1324	1325	1324	1324	1324	126
15°	1291	1292	1289	1290	1291	365
25°	1222	1222	1217	1219	1222	563
35°	1116	1116	1108	1112	1116	698
45°	971	971	958	966	971	749
55°	789	785	768	779	789	704
65°	571	564	540	555	571	564
75°	334	323	296	311	334	353
85°	105	92	67	82	105	110
90°	18	11	0	1	18	19
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	0	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°	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8
5°	1324.4	1324.9	1324.8	1324.8	1324.6	1325.1	1325.0	1324.8	1325.0	1325.0	1325.2
10°	1311.8	1312.5	1312.6	1312.1	1312.2	1312.6	1312.7	1312.3	1312.7	1312.5	1313.1
15°	1290.7	1290.9	1291.1	1291.1	1291.3	1291.5	1291.8	1291.9	1292.2	1291.6	1292.2
20°	1260.6	1260.9	1261.7	1261.4	1262.0	1262.2	1262.5	1262.0	1262.3	1261.4	1262.0
25°	1221.5	1221.8	1222.7	1222.5	1223.1	1223.2	1223.5	1223.2	1223.2	1222.1	1222.9
30°	1172.7	1173.2	1174.8	1174.7	1175.5	1175.5	1176.0	1175.0	1175.2	1173.6	1174.9
35°	1115.5	1115.8	1117.3	1117.3	1118.3	1117.8	1118.6	1117.5	1117.5	1115.6	1117.0
40°	1048.3	1048.2	1050.3	1050.1	1051.7	1051.4	1052.0	1051.0	1050.3	1048.0	1049.3
45°	971.0	971.5	973.7	973.7	975.0	974.6	975.2	973.4	973.5	970.7	971.6
50°	884.7	885.0	887.6	887.6	888.8	888.4	888.9	886.6	885.5	882.4	883.7
55°	788.6	788.8	791.9	791.5	793.5	792.2	792.1	789.6	788.0	785.0	785.6
60°	683.3	683.5	686.7	686.7	688.4	686.7	686.8	683.3	681.2	678.1	678.6
65°	570.6	570.8	573.8	573.3	575.6	573.3	573.1	568.9	566.4	563.6	563.4
70°	453.3	452.2	456.4	454.6	457.2	453.7	454.1	448.4	446.7	443.9	442.2
75°	334.1	331.3	337.0	332.7	336.9	331.1	333.0	325.1	325.2	322.9	318.8
80°	215.0	213.1	217.2	213.7	216.1	209.9	211.8	205.3	203.8	202.1	199.2
85°	104.7	103.1	106.1	102.6	104.2	99.2	99.5	93.4	92.7	91.5	88.2
90°	18.2	13.2	18.7	12.7	17.3	16.5	15.7	13.3	11.2	11.1	1.4
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	0.2	0.2
110°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	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	0.4	0.4	0.4	0.4	0.3	0.3
125°	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
130°	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
135°	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
140°	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.3	0.3
145°	0.5	0.5	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.3	0.4
150°	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.4	0.4	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



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8
5°	1325.6	1325.3	1325.2	1325.1	1325.0	1324.7	1324.4	1324.3	1324.5	1324.4	1324.4
10°	1313.3	1313.2	1312.9	1312.5	1312.1	1311.9	1311.6	1311.1	1311.1	1310.8	1311.0
15°	1292.6	1292.4	1292.1	1291.4	1290.6	1289.8	1289.7	1289.0	1289.4	1288.7	1289.1
20°	1262.9	1262.6	1262.4	1261.1	1260.3	1259.1	1258.9	1257.6	1258.2	1257.6	1258.4
25°	1224.2	1223.8	1223.7	1222.4	1220.7	1219.2	1218.6	1217.4	1217.9	1217.0	1218.5
30°	1176.5	1175.9	1175.6	1173.4	1172.1	1170.1	1169.0	1167.5	1168.3	1167.8	1169.4
35°	1119.2	1118.1	1117.6	1115.0	1113.0	1110.5	1109.6	1108.0	1109.0	1108.4	1110.0
40°	1051.2	1050.1	1049.5	1046.8	1044.0	1041.1	1040.4	1038.5	1039.3	1038.7	1041.0
45°	973.8	972.3	971.3	967.9	965.2	961.5	960.5	958.1	959.4	958.9	961.6
50°	885.3	883.9	883.1	878.9	875.5	871.4	870.5	868.1	869.3	869.1	872.2
55°	788.0	785.6	784.6	780.0	775.9	771.2	770.1	767.7	769.1	769.1	772.6
60°	680.5	677.8	676.5	671.2	666.7	661.7	660.5	657.5	659.6	659.9	664.0
65°	565.1	561.9	560.0	554.7	549.7	544.7	543.5	540.4	542.5	543.0	547.5
70°	444.5	439.7	440.3	432.1	429.9	422.0	424.0	418.4	423.0	421.0	427.9
75°	322.6	315.9	316.8	308.3	306.3	298.7	300.7	295.5	299.9	297.9	304.8
80°	201.1	195.3	195.0	187.7	185.4	179.4	180.8	176.9	180.1	179.1	184.4
85°	89.6	83.7	82.7	76.4	74.2	69.5	71.3	67.4	71.0	69.1	74.0
90°	10.3	0.5	8.2	9.3	0.2	0.3	0.2	0.3	0.2	0.5	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°	0.2	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	0.3	0.3	0.3	0.2	0.2	0.2	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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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	0.3	0.3	0.4	0.3	0.4	0.4	0.4
140°	0.3	0.4	0.4	0.4	0.4	0.3	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	0.3	0.4	0.4	0.4
150°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165°	0.4	0.4	0.4	0.4	0.4	0.3	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	0.3	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
180°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8
5°	1324.2	1324.2	1324.5	1324.3	1324.3	1324.5	1324.3	1323.8	1324.0	1323.6	1323.8
10°	1310.9	1311.2	1311.0	1311.1	1311.0	1311.3	1311.1	1310.3	1310.7	1310.3	1311.0
15°	1288.9	1289.2	1289.1	1289.0	1289.2	1289.6	1287.5	1288.2	1289.0	1288.7	1289.6
20°	1258.1	1258.9	1258.3	1258.3	1257.9	1259.0	1257.9	1257.1	1258.0	1257.7	1258.9
25°	1218.7	1219.4	1218.4	1218.5	1218.4	1219.1	1218.3	1217.0	1218.1	1218.1	1219.5
30°	1169.0	1170.0	1169.7	1170.0	1169.8	1170.5	1169.1	1167.9	1169.2	1169.3	1170.7
35°	1109.8	1111.6	1110.9	1110.9	1110.9	1112.1	1110.8	1108.8	1110.6	1110.9	1112.6
40°	1040.8	1042.9	1042.3	1043.1	1042.4	1044.3	1042.3	1040.9	1042.5	1042.9	1045.1
45°	962.0	964.6	963.4	964.3	963.8	965.7	964.3	962.4	964.4	964.8	967.6
50°	872.7	875.2	874.6	875.8	875.4	877.6	875.5	874.3	876.5	877.6	880.4
55°	773.8	776.4	776.1	777.1	777.2	778.8	778.1	775.8	779.0	780.3	783.5
60°	665.3	668.4	668.2	669.5	669.7	671.4	670.3	668.7	672.4	673.9	677.7
65°	548.8	552.5	552.4	554.4	554.1	555.2	555.2	553.4	557.5	559.5	563.8
70°	427.0	433.2	430.6	435.2	433.1	434.2	436.0	432.9	439.5	439.1	445.3
75°	303.6	310.1	307.3	313.1	310.3	310.9	313.8	310.3	317.1	316.6	324.5
80°	185.3	189.3	187.2	192.7	192.2	192.2	193.3	192.1	197.0	198.0	204.5
85°	73.6	78.5	77.7	82.8	82.5	82.3	84.3	82.3	87.2	87.7	94.0
90°	8.4	0.2	10.6	8.4	0.4	0.6	9.0	0.7	9.9	1.1	11.9
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	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.2	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°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.4	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	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5
135°	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.4	0.5	0.5
140°	0.4	0.4	0.4	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.5
145°	0.4	0.4	0.4	0.3	0.3	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	0.4
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4
165°	0.4	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	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.4	0.4	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



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CATALOG NUMBER: 14CGT4035C-347

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1328.8	1328.8	1328.8	1328.8
5°	1324.5	1324.5	1324.4	1324.4
10°	1311.8	1311.4	1312.2	1311.8
15°	1289.6	1290.4	1290.1	1290.7
20°	1259.2	1260.1	1259.7	1260.6
25°	1220.5	1221.2	1220.5	1221.5
30°	1171.8	1172.5	1172.2	1172.7
35°	1113.5	1114.8	1114.1	1115.5
40°	1046.2	1047.4	1046.8	1048.3
45°	968.7	970.6	969.4	971.0
50°	881.8	883.6	882.7	884.7
55°	785.4	787.3	786.1	788.6
60°	679.6	681.9	681.1	683.3
65°	566.3	568.8	568.0	570.6
70°	447.0	451.0	449.4	453.3
75°	325.1	331.2	328.1	334.1
80°	206.5	211.9	208.4	215.0
85°	95.9	101.2	100.5	104.7
90°	14.9	16.2	17.9	18.2
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	0.5	0.5	0.5
130°	0.5	0.5	0.6	0.6
135°	0.5	0.6	0.6	0.6
140°	0.5	0.5	0.5	0.5
145°	0.5	0.5	0.5	0.5
150°	0.4	0.5	0.4	0.4
155°	0.4	0.4	0.4	0.4
160°	0.4	0.5	0.4	0.4
165°	0.4	0.5	0.4	0.4
170°	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4
180°	0.4	0.4	0.4	0.4

(END OF REPORT)