

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: P364313

Luminaire Tested: **22CGT3535C-347**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364313
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: 22CGT3535C-347
Description: 3500 LUMEN, 2X2 347V CGT LED TROFFER WITH 3500 CCT LEDS

Light Source: -
Ballast/Driver: -

Summary

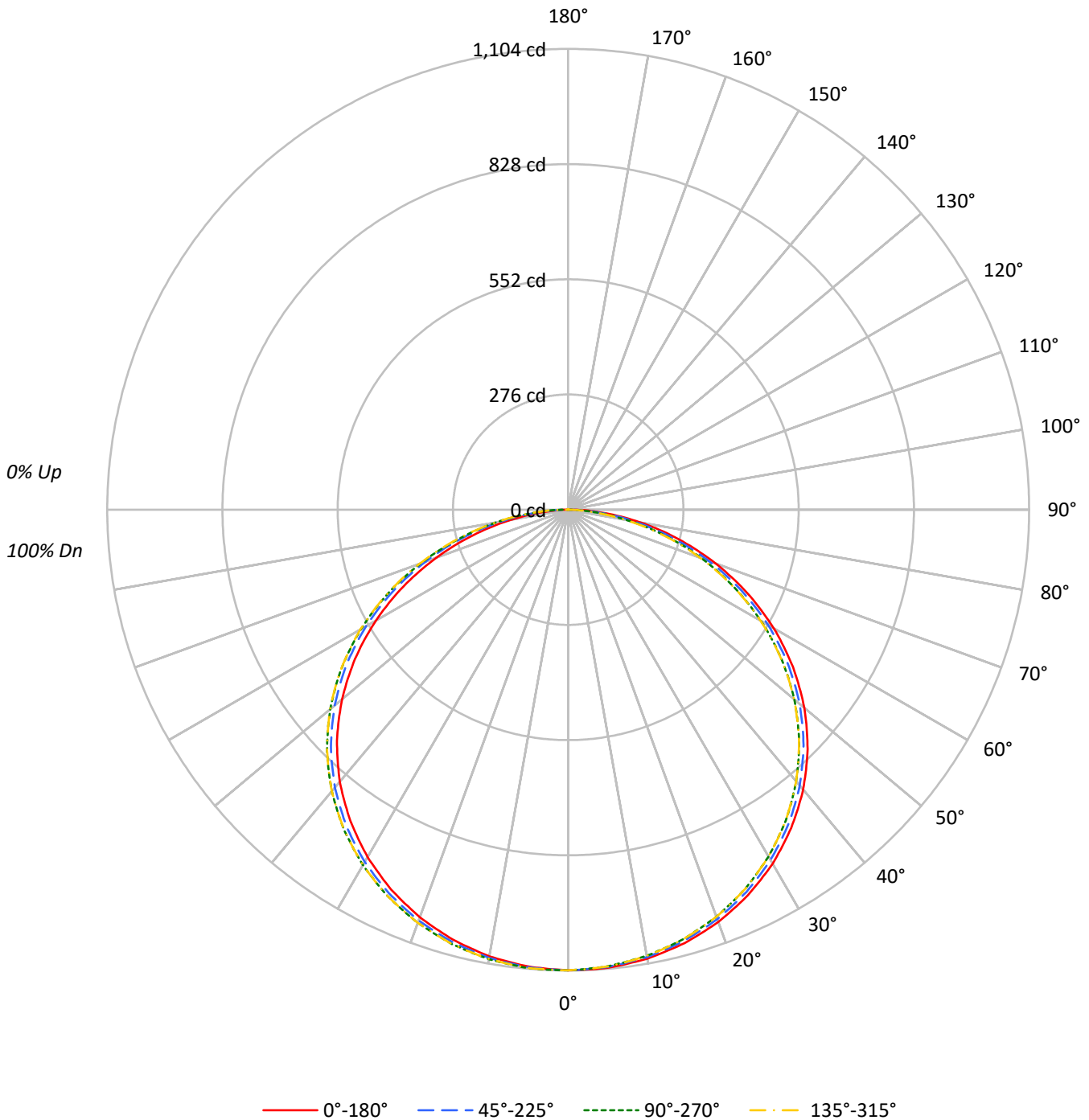
Lumens per Lamp: N/A
Luminaire Lumens: 3449.2 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



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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	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°	2970	2970	2970	2970
5°	2975	2966	2968	2978
10°	2984	2965	2969	2988
15°	2996	2968	2971	3000
20°	3010	2971	2975	3017
25°	3026	2976	2980	3034
30°	3042	2982	2985	3055
35°	3059	2985	2989	3075
40°	3075	2984	2989	3094
45°	3086	2977	2981	3108
50°	3090	2959	2960	3115
55°	3082	2927	2923	3110
60°	3060	2872	2864	3085
65°	3016	2786	2774	3039
70°	2947	2677	2637	2957
75°	2851	2487	2442	2833
80°	2704	2197	2148	2710
85°	2544	1711	1556	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	3.0
10°-20°	302.6	8.8
20°-30°	466.8	13.5
30°-40°	576.9	16.7
40°-50°	616.1	17.9
50°-60°	574.0	16.6
60°-70°	452.2	13.1
70°-80°	271.4	7.9
80°-90°	81.3	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°	874.0	25.3
0°-40°	1450.9	42.1
0°-60°	2641.0	76.6
0°-90°	3445.8	99.9
90°-120°	2.3	0.1
90°-150°	3.1	0.1
90°-180°	3.0	0.1
0°-180°	3449.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1104	1104	1104	1104	1104	
5°	1102	1098	1099	1102	1102	105
15°	1075	1065	1066	1077	1075	304
25°	1019	1002	1004	1022	1019	470
35°	931	909	910	936	931	583
45°	811	782	783	817	811	625
55°	657	624	623	663	657	587
65°	474	438	436	477	474	468
75°	274	239	235	272	274	290
85°	82	55	50	79	82	88
90°	13	0	5	12	13	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



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6
5°	1101.5	1101.0	1100.7	1099.7	1099.9	1098.8	1098.9	1098.8	1098.3	1097.9	1097.8
10°	1092.0	1091.3	1090.6	1089.3	1088.9	1087.5	1086.8	1086.5	1086.0	1085.0	1084.5
15°	1075.3	1074.2	1073.3	1071.3	1070.7	1068.7	1068.0	1067.0	1066.2	1065.2	1064.3
20°	1051.1	1049.4	1048.1	1046.0	1045.1	1042.5	1041.3	1039.9	1039.0	1037.6	1036.6
25°	1019.0	1017.1	1015.6	1013.0	1011.9	1008.9	1007.4	1005.4	1004.2	1002.4	1001.3
30°	979.1	976.7	975.6	972.5	970.8	967.1	965.7	963.1	961.4	959.6	958.3
35°	931.1	928.2	927.3	923.6	921.8	917.9	915.8	912.9	910.9	908.7	907.0
40°	875.4	872.4	870.7	866.8	864.8	860.4	858.1	854.5	852.6	849.5	847.8
45°	811.0	807.5	806.1	801.7	799.8	794.7	792.0	787.8	785.3	782.2	780.2
50°	738.2	734.7	732.8	728.4	726.3	720.8	717.4	712.9	710.0	706.9	704.6
55°	657.0	653.5	651.8	647.0	644.7	639.0	635.4	630.2	627.0	623.8	621.3
60°	568.5	564.8	563.1	558.7	556.0	549.6	546.1	540.0	536.7	533.6	530.8
65°	473.6	469.7	468.1	463.1	460.5	453.9	449.9	443.6	439.9	437.6	434.5
70°	374.6	369.8	369.1	363.1	361.9	353.8	351.5	343.0	342.1	340.2	334.2
75°	274.2	268.4	268.7	261.5	260.7	252.2	250.0	241.8	240.2	239.2	233.8
80°	174.5	169.7	169.0	162.7	161.1	155.2	151.3	144.7	142.6	141.8	137.5
85°	82.4	78.1	77.6	71.8	70.1	63.7	61.6	55.9	55.2	55.4	50.7
90°	13.0	11.2	9.7	0.7	7.4	8.6	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	0.2	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°	0.4	0.4	0.4	0.4	0.4	0.4	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	0.3	0.3
130°	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
135°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	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	0.3
160°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
170°	0.4	0.4	0.4	0.4	0.3	0.3	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	0.3	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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6
5°	1098.3	1097.5	1098.2	1097.9	1098.4	1098.1	1098.5	1098.6	1099.1	1099.8	1099.3
10°	1085.6	1085.2	1085.5	1085.3	1085.6	1085.6	1086.0	1086.5	1087.1	1087.8	1088.4
15°	1065.3	1065.1	1065.5	1065.3	1065.8	1065.4	1066.0	1066.3	1067.6	1068.9	1069.9
20°	1037.8	1037.8	1038.2	1037.7	1037.9	1037.7	1038.4	1038.9	1040.8	1042.2	1043.9
25°	1002.6	1002.6	1002.9	1002.2	1002.4	1002.1	1003.2	1003.7	1006.0	1007.8	1010.7
30°	959.8	959.7	960.1	959.1	959.4	959.1	960.2	960.8	963.7	966.0	969.4
35°	908.9	908.4	909.1	907.7	908.1	907.6	908.9	909.8	913.4	916.1	920.1
40°	849.7	849.3	850.4	848.8	848.8	847.9	849.6	850.8	854.6	857.7	862.4
45°	782.5	781.8	782.8	781.0	780.9	780.4	782.1	783.2	787.4	791.1	796.4
50°	706.8	706.5	707.3	705.4	705.0	704.2	706.0	707.1	711.8	715.9	722.0
55°	623.7	623.4	624.1	621.6	621.3	620.3	622.4	623.1	628.4	632.9	639.6
60°	533.1	532.9	533.5	531.0	530.4	529.0	531.2	532.1	537.8	542.4	549.7
65°	436.8	436.2	436.8	434.1	433.7	432.3	434.4	435.6	441.1	446.1	453.8
70°	339.1	335.6	339.0	333.6	335.8	331.7	336.7	335.2	343.4	345.6	355.3
75°	237.7	234.7	237.4	232.7	234.4	231.5	235.8	234.9	242.3	244.5	254.1
80°	140.7	138.0	139.6	135.9	137.1	135.2	138.9	138.6	144.8	147.3	155.2
85°	53.4	49.9	51.9	47.7	52.4	47.1	53.8	50.4	56.4	57.6	64.1
90°	0.1	4.9	0.1	4.4	0.1	4.1	0.1	4.9	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
125°	0.2	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	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
150°	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4
155°	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3
165°	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
170°	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175°	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.4
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°	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6
5°	1100.3	1100.5	1101.3	1101.7	1101.9	1102.3	1101.9	1102.2	1102.0	1101.9	1102.1
10°	1089.6	1090.5	1091.4	1092.7	1092.8	1093.4	1093.0	1093.6	1093.2	1092.9	1093.2
15°	1071.6	1072.9	1074.2	1075.9	1076.4	1076.9	1077.4	1077.3	1077.1	1076.7	1077.3
20°	1046.4	1048.1	1050.1	1052.1	1052.1	1053.4	1053.7	1053.6	1053.4	1053.1	1053.4
25°	1013.5	1015.9	1018.0	1020.2	1020.6	1022.0	1022.6	1022.2	1022.5	1021.8	1022.1
30°	972.7	975.9	978.4	981.0	981.4	983.1	983.5	983.1	983.2	982.8	983.4
35°	924.0	927.7	930.3	933.5	934.1	936.0	936.7	936.2	936.1	935.4	936.3
40°	866.5	871.1	874.1	877.7	878.5	880.7	881.6	880.8	880.9	880.1	881.0
45°	801.0	806.2	809.2	813.5	814.1	816.8	817.9	816.7	816.8	816.2	817.1
50°	727.0	733.0	736.3	740.3	741.6	744.1	745.3	744.2	744.3	743.8	744.9
55°	645.4	651.5	655.1	659.3	660.9	662.9	664.5	663.1	663.4	662.9	664.3
60°	555.5	562.2	566.1	570.3	572.1	573.3	575.4	574.2	574.9	574.3	575.9
65°	459.8	466.7	470.4	475.2	476.3	477.2	479.6	478.2	479.0	478.5	480.4
70°	358.9	367.7	369.7	375.0	375.7	375.8	379.4	377.0	378.8	377.5	380.5
75°	257.2	266.3	267.0	274.3	273.1	272.5	277.4	273.8	276.8	274.1	279.0
80°	158.1	166.1	167.6	173.4	175.9	174.9	176.1	175.5	175.2	176.1	177.2
85°	66.6	73.4	75.1	80.3	80.6	79.1	82.5	79.7	81.5	79.9	83.3
90°	9.5	8.2	1.3	12.8	12.5	11.6	13.3	12.0	13.0	12.2	13.2
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°	0.2	0.2	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	0.3	0.3	0.4	0.4	0.4	0.4	0.3	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°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4
140°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4
145°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
150°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3
160°	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
165°	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
170°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
175°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
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):

	330°	340°	350°	360°
0°	1103.6	1103.6	1103.6	1103.6
5°	1102.2	1101.7	1101.6	1101.5
10°	1093.2	1093.1	1093.1	1092.0
15°	1076.9	1076.6	1075.9	1075.3
20°	1053.3	1052.7	1051.4	1051.1
25°	1021.9	1021.2	1019.7	1019.0
30°	982.7	982.0	980.1	979.1
35°	935.5	934.8	932.5	931.1
40°	880.2	879.3	876.7	875.4
45°	816.1	815.2	812.2	811.0
50°	744.0	742.7	739.4	738.2
55°	663.1	662.0	658.5	657.0
60°	574.2	573.6	569.9	568.5
65°	479.2	478.6	474.7	473.6
70°	378.6	379.2	374.2	374.6
75°	275.8	278.2	272.6	274.2
80°	174.2	177.3	173.5	174.5
85°	82.5	84.2	81.6	82.4
90°	13.5	13.2	13.1	13.0
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	0.4	0.4
135°	0.4	0.4	0.4	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	0.3
155°	0.3	0.3	0.4	0.3
160°	0.3	0.4	0.4	0.3
165°	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.3	0.4
175°	0.4	0.4	0.3	0.3
180°	0.3	0.3	0.3	0.3

(END OF REPORT)