

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: P236306

Luminaire Tested: **4SWLED-80HL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26870)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-80HL-LC-UNV-L850-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 2 ROW LED, CLEAR LENS
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

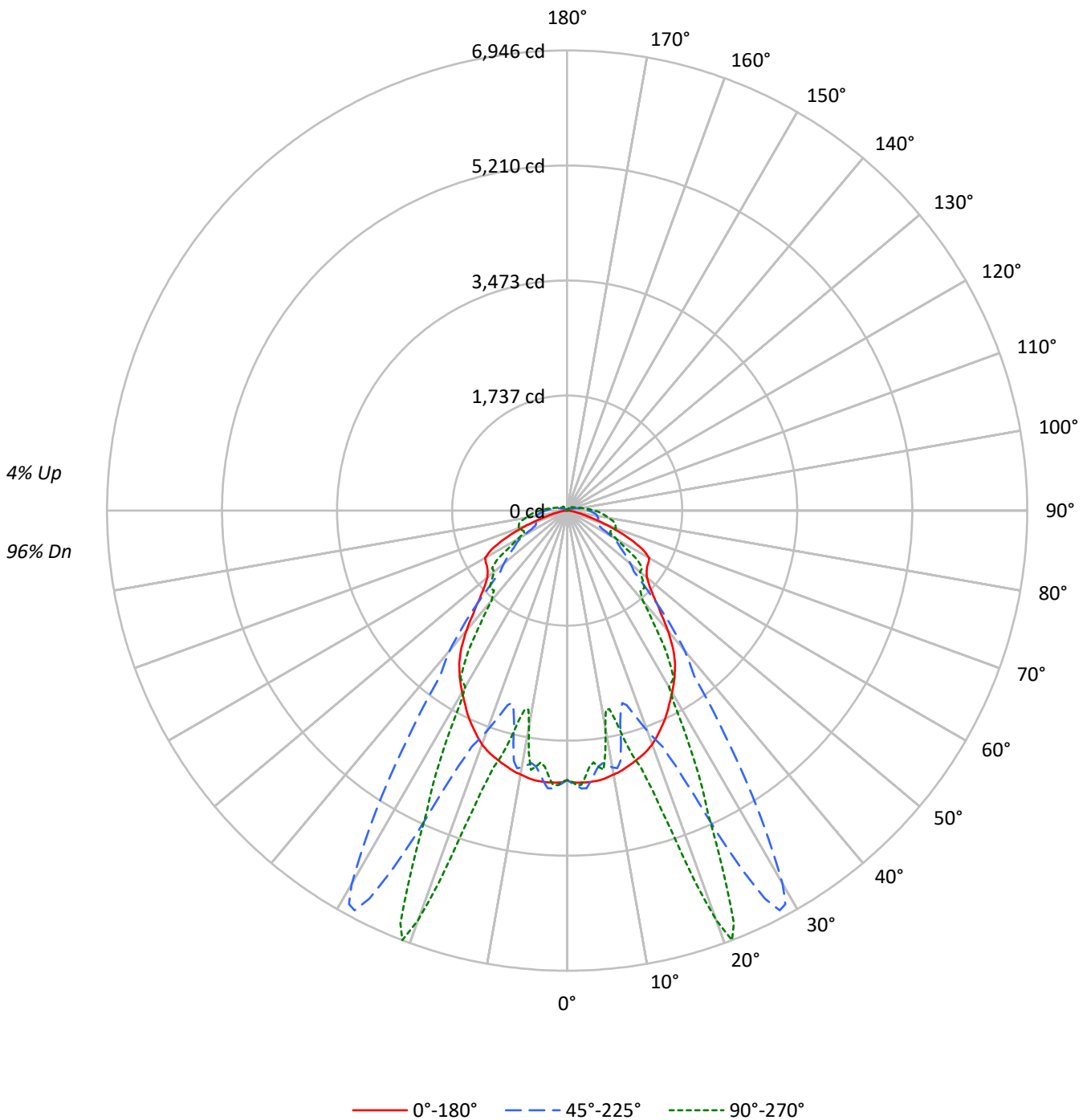
Lumens per Lamp: N/A
Luminaire Lumens: 11093.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): 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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	108	103	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52
5	78	66	57	51	75	64	56	50	62	55	49	59	53	49	57	52	48	46
6	72	59	51	45	70	58	50	45	56	49	44	54	48	43	52	47	42	40
7	67	54	46	40	65	53	45	40	51	44	39	49	43	39	48	42	38	36
8	62	50	41	36	61	49	41	36	47	40	35	46	39	35	44	38	34	32
9	58	46	38	32	57	45	37	32	43	37	32	42	36	31	41	35	31	29
10	55	42	35	29	53	41	34	29	40	34	29	39	33	29	38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29206	29206	29206
5°	29512	28779	27019
10°	29288	27239	22586
15°	28870	21436	25761
20°	28306	24372	44002
25°	27138	37389	33622
30°	25739	45942	20791
35°	24268	30269	17987
40°	21465	20642	12544
45°	18172	13620	12081
50°	16805	10270	10962
55°	17531	8609	10351
60°	19288	7306	7384
65°	17271	5418	6710
70°	12219	5698	7924
75°	7029	6354	8477
80°	4435	7029	8135
85°	2400	7516	8001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.9	3.4
10°-20°	1071.6	9.7
20°-30°	2111.5	19.0
30°-40°	2178.6	19.6
40°-50°	1830.7	16.5
50°-60°	1350.3	12.2
60°-70°	765.6	6.9
70°-80°	549.6	5.0
80°-90°	372.6	3.4
90°-100°	222.6	2.0
100°-110°	116.3	1.0
110°-120°	65.1	0.6
120°-130°	38.1	0.3
130°-140°	26.4	0.2
140°-150°	9.6	0.1
150°-160°	2.7	0.0
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	3564.1	32.1
0°-40°	5742.7	51.8
0°-60°	8923.7	80.4
0°-90°	10611.6	95.7
90°-120°	403.9	3.6
90°-150°	478.0	4.3
90°-180°	481.0	4.3
0°-180°	11093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4070	4070	4070	4070	4070	
5°	4110	4171	4100	3907	3878	390
15°	3924	3754	3118	3511	3829	1106
25°	3486	3111	5384	6046	5016	1600
35°	2841	3500	4183	2836	2612	1757
45°	1856	4674	1746	1576	1653	1462
55°	1474	2622	984	1241	1287	1332
65°	1097	1053	525	643	725	1062
75°	288	424	486	698	750	344
85°	41	178	405	496	529	52
90°	3	130	322	398	411	3
95°	1	103	252	292	306	1
105°	1	54	132	157	168	1
115°	3	25	73	103	116	3
125°	3	11	43	68	83	3
135°	3	6	32	65	80	2
145°	3	3	12	23	30	2
155°	4	4	6	7	10	2
165°	4	4	4	1	3	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236306

CATALOG NUMBER: 4SWLED-80HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0
1°	4104.4	4101.7	4085.2	4076.9	4075.5	4072.8	4074.1	4076.9	4083.8	4083.8	4115.5
2°	4108.6	4107.2	4096.2	4090.7	4090.7	4090.7	4093.4	4101.7	4107.2	4108.6	4156.8
3°	4110.0	4111.3	4104.4	4100.3	4110.0	4110.0	4114.1	4125.1	4144.4	4151.3	4200.9
4°	4112.7	4118.2	4114.1	4112.7	4132.0	4145.8	4154.0	4169.2	4181.6	4183.0	4202.3
5°	4110.0	4116.8	4116.8	4133.4	4159.6	4170.6	4177.5	4187.1	4167.8	4115.5	4100.3
6°	4107.2	4118.2	4125.1	4155.4	4178.8	4188.5	4189.9	4147.2	4096.2	4035.6	3986.0
7°	4100.3	4111.3	4133.4	4173.3	4188.5	4187.1	4163.7	4075.5	3986.0	3908.8	3886.8
8°	4083.8	4100.3	4144.4	4177.5	4166.4	4123.7	4079.6	3983.2	3899.2	3844.0	3848.2
9°	4064.5	4082.4	4144.4	4167.8	4114.1	4053.5	3998.4	3878.5	3824.8	3816.5	3890.9
10°	4045.2	4074.1	4145.8	4147.2	4030.0	3968.0	3892.3	3811.0	3809.6	3855.1	3936.4
11°	4028.7	4063.1	4137.5	4105.8	3958.4	3889.5	3812.4	3788.9	3842.7	3893.6	3962.5
12°	4005.2	4052.1	4119.6	4050.7	3866.1	3800.0	3760.0	3804.1	3868.8	3915.7	3863.3
13°	3977.7	4030.0	4085.2	3968.0	3790.3	3744.8	3760.0	3833.0	3874.4	3846.8	3613.9
14°	3948.8	4016.3	4043.8	3895.0	3721.4	3732.4	3780.7	3838.5	3845.4	3607.1	3315.0
15°	3924.0	3998.4	3999.7	3813.7	3698.0	3754.5	3791.7	3819.2	3710.4	3375.6	3117.9
16°	3895.0	3979.1	3951.5	3755.9	3720.0	3772.4	3793.1	3769.6	3454.1	3127.6	3021.5
17°	3866.1	3951.5	3890.9	3704.9	3746.2	3775.2	3773.8	3626.3	3264.0	3017.4	3068.3
18°	3833.0	3917.1	3835.8	3669.1	3757.2	3758.6	3726.9	3458.3	3073.9	2995.3	3211.6
19°	3795.8	3877.1	3776.5	3647.0	3743.5	3713.2	3630.5	3270.9	3000.8	3079.4	3374.2
20°	3755.9	3831.6	3722.8	3649.8	3709.0	3641.5	3516.1	3124.8	2996.7	3214.4	3540.9
21°	3706.3	3777.9	3671.8	3663.5	3645.6	3527.1	3370.1	3039.4	3062.8	3339.8	3692.5
22°	3652.5	3721.4	3631.9	3663.5	3549.2	3416.9	3239.2	3005.0	3175.8	3470.7	3842.7
23°	3594.7	3669.1	3594.7	3645.6	3430.7	3294.3	3133.1	3035.3	3257.1	3598.8	4180.2
24°	3542.3	3609.8	3569.9	3602.9	3324.6	3191.0	3067.0	3101.4	3332.9	3743.5	4651.4
25°	3485.8	3553.3	3547.8	3534.0	3228.2	3111.1	3053.2	3155.1	3433.5	4097.6	5384.4
26°	3423.8	3492.7	3527.1	3433.5	3155.1	3069.7	3072.5	3195.1	3568.5	4542.6	6044.4
27°	3357.7	3436.2	3487.2	3323.2	3104.2	3065.6	3112.4	3224.0	3881.2	5239.7	6570.7
28°	3291.5	3371.5	3430.7	3213.0	3073.9	3093.1	3129.0	3286.0	4280.8	5839.1	6833.8
29°	3228.2	3310.8	3367.3	3127.6	3069.7	3127.6	3126.2	3469.3	4902.2	6355.8	6792.5
30°	3171.7	3250.2	3294.3	3071.1	3091.8	3131.7	3124.8	3772.4	5432.6	6620.3	6507.3
32.5°	3011.9	3073.9	3075.2	3020.1	3127.6	3120.7	3367.3	4986.2	6319.9	6358.5	5366.5
35°	2841.0	2860.3	2887.9	3055.9	3151.0	3499.6	4322.1	5777.1	6264.8	5286.6	4183.0
37.5°	2628.8	2626.1	2812.1	3082.1	3618.1	4424.1	5081.3	5902.5	5365.1	4093.4	3149.6
40°	2361.5	2391.8	2798.3	3185.5	4374.5	4820.9	5148.8	5531.8	4159.6	3155.1	2759.7
42.5°	2088.7	2226.5	2798.3	3608.4	4521.9	4768.5	5102.0	4619.7	3294.3	2690.8	2256.8
45°	1855.9	2139.7	2819.0	3958.4	4377.2	4673.5	4725.8	3688.3	2730.8	2083.2	1745.7
47.5°	1683.7	2058.4	2998.1	3822.0	4225.7	4297.3	4100.3	3078.0	2037.8	1530.7	1368.1
50°	1570.7	1962.0	3075.2	3553.3	3911.6	3822.0	3531.3	2270.6	1406.7	1238.6	1249.7
52.5°	1511.4	1941.3	2864.4	3302.6	3514.7	3321.9	2784.5	1536.2	1133.9	1109.1	1116.0
55°	1474.2	1879.3	2555.8	2959.5	3017.4	2621.9	2055.7	1156.0	970.0	956.2	983.7
57.5°	1456.3	1703.0	2251.3	2509.0	2369.8	2018.5	1561.0	881.8	789.5	817.0	899.7
60°	1428.8	1518.3	1807.7	1973.0	1887.6	1598.2	1183.5	701.3	686.1	737.1	774.3
62.5°	1299.3	1303.4	1264.8	1558.3	1544.5	1296.5	935.5	600.7	574.5	589.7	598.0
65°	1096.7	1011.3	874.9	1281.3	1274.5	1052.6	745.4	476.7	464.3	498.8	524.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	870.8	728.9	655.8	1025.1	1012.7	833.6	596.6	410.6	434.0	469.8	508.4
70°	640.7	536.0	516.7	807.4	797.7	668.2	500.1	380.3	418.8	456.0	496.0
72.5°	436.8	396.8	406.4	609.0	624.1	534.6	424.4	361.0	395.4	438.1	498.8
75°	288.0	290.7	312.8	447.8	478.1	424.4	358.2	336.2	373.4	424.4	486.4
77.5°	197.0	206.7	232.8	321.0	356.8	330.7	304.5	310.0	350.0	409.2	474.0
80°	129.5	139.2	166.7	227.3	264.5	263.2	261.8	288.0	333.4	396.8	460.2
82.5°	78.5	88.2	114.4	161.2	199.8	212.2	228.7	267.3	322.4	392.7	443.6
85°	41.3	51.0	75.8	115.7	155.7	177.7	201.2	250.8	316.9	377.5	405.1
87.5°	16.5	26.2	49.6	84.0	126.8	151.6	179.1	238.4	307.2	347.2	362.4
90°	2.8	12.4	31.7	63.4	104.7	129.5	159.8	228.7	285.2	303.1	322.4
92.5°	1.4	6.9	22.0	48.2	88.2	114.4	146.0	212.2	249.4	267.3	285.2
95°	1.4	4.1	16.5	38.6	75.8	103.3	133.6	186.0	213.6	231.5	252.1
97.5°	1.4	4.1	12.4	31.7	68.9	93.7	119.9	157.1	180.5	201.2	219.1
100°	1.4	2.8	11.0	27.6	60.6	79.9	99.2	128.1	148.8	170.8	187.4
102.5°	1.4	2.8	9.6	24.8	52.4	67.5	81.3	103.3	125.4	143.3	159.8
105°	1.4	2.8	8.3	22.0	42.7	53.7	64.8	85.4	104.7	121.2	132.3
107.5°	1.4	2.8	6.9	17.9	34.4	44.1	53.7	71.6	88.2	100.6	111.6
110°	1.4	1.4	5.5	15.2	28.9	37.2	44.1	59.2	73.0	85.4	95.1
112.5°	2.8	2.8	5.5	12.4	23.4	30.3	37.2	49.6	62.0	73.0	82.7
115°	2.8	2.8	4.1	9.6	19.3	24.8	30.3	41.3	52.4	63.4	73.0
117.5°	2.8	2.8	4.1	8.3	15.2	20.7	24.8	34.4	44.1	55.1	64.8
120°	2.8	2.8	2.8	6.9	13.8	16.5	20.7	28.9	38.6	48.2	56.5
122.5°	2.8	2.8	2.8	5.5	11.0	13.8	16.5	24.8	33.1	41.3	49.6
125°	2.8	2.8	2.8	4.1	8.3	11.0	13.8	20.7	27.6	35.8	42.7
127.5°	2.8	2.8	2.8	4.1	6.9	9.6	11.0	16.5	23.4	28.9	37.2
130°	2.8	2.8	2.8	2.8	5.5	6.9	9.6	13.8	19.3	26.2	33.1
132.5°	2.8	2.8	2.8	2.8	5.5	6.9	8.3	12.4	19.3	24.8	31.7
135°	2.8	2.8	2.8	2.8	4.1	5.5	8.3	12.4	17.9	24.8	31.7
137.5°	2.8	2.8	2.8	2.8	4.1	5.5	6.9	11.0	16.5	23.4	28.9
140°	2.8	2.8	2.8	2.8	2.8	4.1	5.5	9.6	13.8	17.9	23.4
142.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.1	6.9	9.6	13.8	17.9
145°	2.8	2.8	2.8	2.8	2.8	2.8	4.1	5.5	6.9	9.6	12.4
147.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.1	5.5	6.9	9.6
150°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.1	4.1	5.5	6.9
152.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.5	5.5
155°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.5
157.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
160°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
162.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
165°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P236306

CATALOG NUMBER: 4SWLED-80HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0	4070.0
1°	4126.5	4121.0	4116.8	4111.3	4105.8	4104.4	4101.7	4100.3	4089.3	4090.7
2°	4166.4	4170.6	4167.8	4162.3	4166.4	4160.9	4158.2	4152.7	4148.5	4149.9
3°	4214.7	4213.3	4200.9	4185.7	4176.1	4176.1	4155.4	4147.2	4122.4	4144.4
4°	4172.0	4143.0	4096.2	4074.1	4053.5	4050.7	4025.9	4002.5	3990.1	4012.1
5°	4056.2	4013.5	3954.3	3930.8	3907.4	3910.2	3889.5	3874.4	3864.7	3878.5
6°	3940.5	3901.9	3860.6	3835.8	3826.1	3819.2	3816.5	3820.6	3823.4	3822.0
7°	3859.2	3850.9	3846.8	3857.8	3867.5	3867.5	3884.0	3897.8	3901.9	3899.2
8°	3874.4	3901.9	3919.8	3926.7	3928.1	3930.8	3957.0	3957.0	3948.8	3951.5
9°	3936.4	3955.6	3974.9	3950.1	3901.9	3892.3	3801.3	3747.6	3671.8	3693.9
10°	3984.6	3948.8	3800.0	3677.3	3594.7	3567.1	3429.3	3368.7	3290.2	3312.2
11°	3901.9	3709.0	3484.4	3331.5	3253.0	3207.5	3117.9	3080.7	3065.6	3061.5
12°	3594.7	3370.1	3168.9	3080.7	3044.9	3031.1	3021.5	3032.5	3057.3	3064.2
13°	3315.0	3129.0	3036.7	3043.5	3061.5	3083.5	3160.7	3206.1	3250.2	3251.6
14°	3089.0	3032.5	3106.9	3200.6	3254.3	3288.8	3396.3	3470.7	3551.9	3567.1
15°	3029.8	3123.5	3299.8	3443.1	3510.6	3583.6	3725.6	3786.2	3831.6	3828.9
16°	3131.7	3292.9	3538.2	3706.3	3775.2	3823.4	3914.3	3969.4	4023.2	4031.4
17°	3302.6	3549.2	3775.2	3904.7	3954.3	4009.4	4177.5	4293.2	4391.0	4422.7
18°	3481.7	3740.7	3919.8	4129.2	4260.1	4367.6	4601.8	4815.4	5020.7	5059.3
19°	3681.5	3907.4	4206.4	4566.0	4727.2	4968.3	5385.8	5646.2	5854.2	5921.8
20°	3812.4	4169.2	4633.5	5310.0	5537.3	5804.6	6204.2	6402.6	6545.9	6577.6
21°	4042.4	4628.0	5425.7	6094.0	6324.1	6472.9	6737.4	6862.8	6898.6	6945.5
22°	4424.1	5355.5	6175.3	6661.6	6815.9	6901.4	6930.3	6836.6	6752.6	6719.5
23°	5124.0	6071.9	6671.3	6941.3	6926.2	6821.4	6585.8	6364.0	6219.4	6158.7
24°	5884.6	6623.0	6919.3	6690.6	6559.7	6336.5	6036.1	5812.9	5658.6	5584.2
25°	6421.9	6895.9	6645.1	6212.5	6045.8	5814.3	5450.5	5237.0	5085.4	5016.5
26°	6824.2	6763.6	6182.2	5686.1	5490.5	5267.3	4947.7	4827.8	4716.2	4650.0
27°	6861.4	6369.5	5690.3	5143.3	4968.3	4809.9	4570.1	4397.9	4280.8	4218.8
28°	6562.4	5909.4	5166.7	4728.6	4586.7	4393.8	4122.4	3952.9	3870.2	3776.5
29°	6180.8	5381.7	4731.3	4275.3	4121.0	3926.7	3656.7	3433.5	3379.7	3321.9
30°	5668.2	4900.8	4298.7	3790.3	3642.9	3433.5	3226.8	3153.8	3117.9	3072.5
32.5°	4462.7	3692.5	3191.0	2998.1	2954.0	2934.7	3010.5	3022.9	3020.1	2995.3
35°	3339.8	2919.5	2901.6	2872.7	2835.5	2799.7	2729.4	2689.5	2655.0	2612.3
37.5°	2852.0	2734.9	2571.0	2429.0	2365.7	2317.4	2244.4	2204.5	2171.4	2146.6
40°	2499.3	2258.2	2094.2	1995.0	1960.6	1904.1	1858.6	1833.8	1809.0	1776.0
42.5°	2017.1	1802.2	1672.6	1602.4	1581.7	1559.7	1577.6	1606.5	1620.3	1635.4
45°	1552.8	1454.9	1485.3	1550.0	1576.2	1603.8	1643.7	1652.0	1654.7	1653.4
47.5°	1353.0	1423.3	1459.1	1479.7	1475.6	1486.6	1519.7	1541.7	1555.5	1543.1
50°	1285.5	1295.1	1344.7	1395.7	1404.0	1390.2	1397.1	1415.0	1434.3	1437.0
52.5°	1162.9	1204.2	1242.8	1277.2	1307.5	1337.8	1387.4	1412.2	1427.4	1427.4
55°	1044.4	1120.1	1173.9	1222.1	1241.4	1249.7	1274.5	1284.1	1293.7	1286.9
57.5°	970.0	1005.8	1041.6	1034.7	1019.6	997.5	1011.3	1027.8	1034.7	1030.6
60°	784.0	785.3	789.5	800.5	818.4	834.9	851.5	855.6	862.5	861.1
62.5°	620.0	633.8	655.8	691.7	701.3	701.3	717.8	730.2	734.4	728.9
65°	556.6	584.2	622.8	643.4	643.4	647.6	677.9	713.7	727.5	724.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	544.2	592.5	611.7	640.7	662.7	684.8	715.1	735.7	748.1	752.3
70°	552.5	588.3	626.9	666.9	684.8	704.1	739.9	768.8	779.8	781.2
72.5°	551.1	598.0	636.5	684.8	705.4	723.3	749.5	760.5	764.7	764.7
75°	547.0	593.8	647.6	682.0	698.5	716.5	731.6	739.9	746.8	749.5
77.5°	529.1	580.1	606.2	637.9	648.9	657.2	676.5	690.3	699.9	701.3
80°	507.0	530.5	549.7	575.9	584.2	596.6	615.9	624.1	631.0	631.0
82.5°	464.3	480.8	501.5	529.1	544.2	556.6	571.8	577.3	581.4	582.8
85°	418.8	435.4	461.6	485.0	496.0	507.0	520.8	529.1	531.8	529.1
87.5°	377.5	400.9	425.7	443.6	447.8	453.3	464.3	471.2	474.0	476.7
90°	340.3	363.7	383.0	398.2	398.2	403.7	409.2	410.6	407.8	410.6
92.5°	307.2	322.4	333.4	340.3	340.3	344.4	351.3	354.1	352.7	354.1
95°	267.3	278.3	283.8	288.0	292.1	297.6	303.1	304.5	304.5	305.9
97.5°	231.5	239.7	245.2	249.4	250.8	254.9	254.9	256.3	256.3	257.6
100°	199.8	208.0	209.4	208.0	209.4	210.8	212.2	214.9	216.3	217.7
102.5°	169.5	176.4	179.1	180.5	181.9	184.6	187.4	188.8	191.5	191.5
105°	140.5	148.8	154.3	157.1	157.1	159.8	162.6	165.3	166.7	168.1
107.5°	119.9	128.1	135.0	137.8	140.5	141.9	144.7	147.4	148.8	150.2
110°	103.3	111.6	119.9	125.4	126.8	129.5	132.3	135.0	136.4	137.8
112.5°	92.3	99.2	106.1	111.6	114.4	117.1	119.9	122.6	125.4	125.4
115°	81.3	89.6	95.1	100.6	103.3	104.7	108.8	113.0	114.4	115.7
117.5°	73.0	79.9	85.4	90.9	93.7	96.4	99.2	102.0	104.7	104.7
120°	64.8	71.6	77.2	81.3	84.0	85.4	89.6	92.3	93.7	95.1
122.5°	56.5	63.4	67.5	73.0	74.4	77.2	81.3	84.0	85.4	86.8
125°	49.6	55.1	60.6	66.1	67.5	70.3	75.8	78.5	81.3	82.7
127.5°	44.1	49.6	56.5	62.0	64.8	68.9	74.4	78.5	81.3	82.7
130°	40.0	48.2	55.1	62.0	66.1	68.9	75.8	81.3	84.0	84.0
132.5°	40.0	48.2	56.5	63.4	67.5	70.3	77.2	82.7	85.4	86.8
135°	38.6	45.5	53.7	60.6	64.8	67.5	73.0	77.2	79.9	79.9
137.5°	34.4	40.0	45.5	51.0	55.1	57.9	62.0	64.8	67.5	67.5
140°	27.6	31.7	35.8	40.0	42.7	45.5	49.6	51.0	53.7	53.7
142.5°	20.7	23.4	27.6	30.3	31.7	34.4	37.2	40.0	41.3	41.3
145°	15.2	17.9	19.3	22.0	23.4	24.8	27.6	28.9	30.3	30.3
147.5°	11.0	12.4	13.8	16.5	16.5	17.9	20.7	22.0	22.0	22.0
150°	8.3	9.6	11.0	11.0	12.4	12.4	15.2	16.5	16.5	16.5
152.5°	6.9	6.9	8.3	8.3	9.6	9.6	11.0	12.4	12.4	12.4
155°	5.5	5.5	5.5	5.5	6.9	6.9	8.3	8.3	9.6	9.6
157.5°	4.1	4.1	4.1	4.1	4.1	4.1	5.5	5.5	6.9	6.9
160°	4.1	4.1	2.8	2.8	2.8	2.8	4.1	4.1	4.1	4.1
162.5°	4.1	2.8	2.8	2.8	1.4	2.8	2.8	2.8	2.8	2.8
165°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P236306

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)