

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P895358

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ASML-UNV-CC93-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

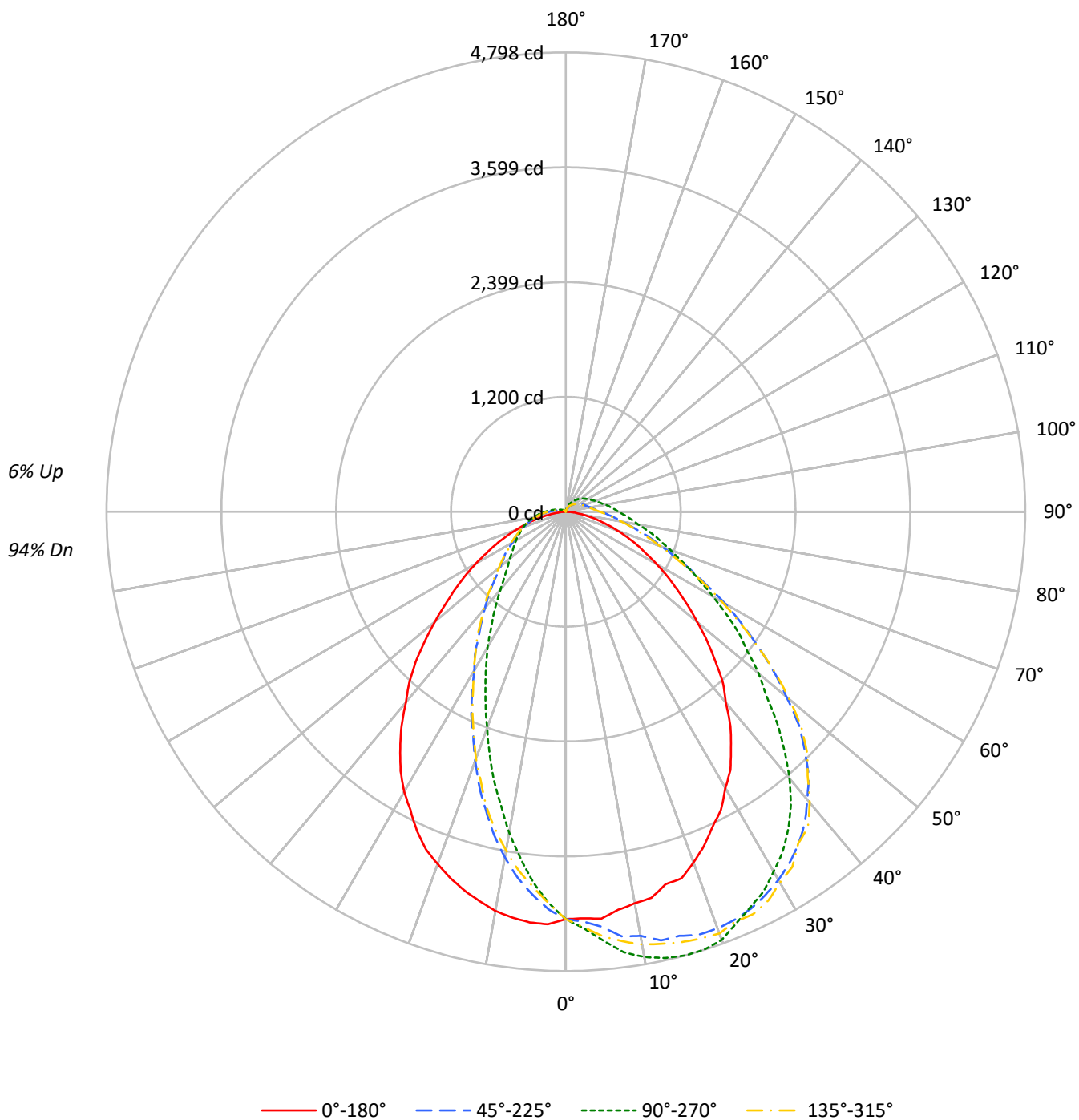
Lumens per Lamp: N/A
Luminaire Lumens: 10602.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 101.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97
1	107	103	98	94	104	100	96	92	95	91	88	90	87	85	85	83	81
2	98	90	83	78	95	88	82	76	83	78	74	79	75	71	75	72	69
3	90	80	72	65	87	78	70	64	74	68	63	70	65	61	67	63	59
4	83	71	63	56	80	69	61	55	66	59	54	63	57	53	60	55	51
5	76	64	55	49	74	62	54	48	60	53	47	57	51	46	55	49	45
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	44	40
7	66	53	44	38	64	51	43	38	49	42	37	48	41	36	46	40	36
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32
9	57	44	36	31	56	43	36	31	42	35	30	40	34	30	39	33	29
10	54	41	33	28	52	40	33	28	39	32	28	38	31	27	36	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21603	21603	21603	21603
5°	21713	22015	21918	19028
10°	21353	22484	21769	16217
15°	21083	22404	21440	13559
20°	20951	21961	21040	11093
25°	20185	20942	20464	9127
30°	19371	20014	19622	7541
35°	18450	18888	18502	6144
40°	17016	17278	17007	5038
45°	15601	15251	15681	4293
50°	13915	13312	13850	3878
55°	12304	11661	12219	3562
60°	10840	9946	10743	3367
65°	9555	8564	9328	3199
70°	8189	7504	7911	3058
75°	6765	6822	6585	2945
80°	5351	6140	4864	2742
85°	3924	5930	3168	2571

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 21631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.7	3.8
10°-20°	1110.9	10.5
20°-30°	1597.9	15.1
30°-40°	1813.3	17.1
40°-50°	1733.0	16.3
50°-60°	1408.1	13.3
60°-70°	982.5	9.3
70°-80°	608.7	5.7
80°-90°	349.1	3.3
90°-100°	208.7	2.0
100°-110°	137.0	1.3
110°-120°	96.0	0.9
120°-130°	69.6	0.7
130°-140°	46.2	0.4
140°-150°	26.1	0.2
150°-160°	11.6	0.1
160°-170°	3.3	0.0
170°-180°	0.3	0.0
0°-30°	3108.4	29.3
0°-40°	4921.7	46.4
0°-60°	8062.8	76.1
0°-90°	10003.1	94.4
90°-120°	441.7	4.2
90°-150°	583.6	5.5
90°-180°	599.0	5.6
0°-180°	10602.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4254	4254	4254	4254	4254	
5°	4265	4496	4305	3886	4265	402
15°	4027	4798	4095	2904	4027	1144
25°	3628	4557	3678	1986	3628	1674
35°	3008	4050	3017	1318	3008	1875
45°	2206	3123	2217	879	2206	1702
55°	1421	2202	1411	673	1421	1278
65°	822	1432	802	535	822	816
75°	365	958	355	414	365	394
85°	79	649	64	281	79	89
90°	3	549	0	216	3	6
95°	4	478	0	164	4	3
105°	3	368	0	89	3	3
115°	3	292	0	49	3	3
125°	3	238	0	32	3	3
135°	3	189	0	25	3	2
145°	3	134	0	17	3	2
155°	4	84	0	10	4	2
165°	4	39	0	4	4	1
175°	4	1	0	0	4	0
180°	1	1	1	1	1	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7
2.5°	4249.5	4281.6	4284.3	4384.6	4355.4	4393.0	4345.6	4354.0	4312.2	4301.1	4156.2
5°	4264.8	4333.1	4351.2	4523.9	4496.1	4515.6	4450.1	4402.7	4305.2	4246.7	4012.7
7.5°	4192.4	4372.1	4472.4	4594.9	4640.9	4656.2	4523.9	4436.2	4274.6	4131.1	3856.7
10°	4152.0	4399.9	4497.4	4681.3	4721.7	4692.4	4589.4	4444.5	4232.8	4001.6	3664.5
12.5°	4129.7	4415.3	4585.2	4773.2	4774.6	4744.0	4622.8	4466.8	4164.6	3862.3	3461.2
15°	4026.7	4412.5	4586.6	4777.4	4798.3	4778.8	4654.8	4451.5	4094.9	3689.6	3227.2
17.5°	4015.5	4405.5	4631.2	4831.7	4796.9	4783.0	4674.3	4444.5	4011.3	3514.1	3007.1
20°	3898.5	4390.2	4631.2	4770.4	4759.3	4764.9	4686.9	4434.8	3915.2	3324.7	2766.2
22.5°	3774.6	4372.1	4611.7	4717.5	4650.7	4752.3	4631.2	4408.3	3817.7	3126.9	2526.6
25°	3628.3	4342.8	4574.1	4642.3	4557.3	4636.7	4635.3	4367.9	3678.5	2913.8	2337.2
27.5°	3509.9	4296.9	4512.8	4615.8	4471.0	4539.2	4578.2	4319.2	3514.1	2703.5	2114.3
30°	3333.0	4238.4	4438.9	4454.3	4340.1	4426.4	4471.0	4257.9	3376.2	2465.3	1911.0
32.5°	3197.9	4171.5	4348.4	4327.5	4213.3	4327.5	4399.9	4196.6	3211.9	2256.4	1767.5
35°	3008.5	4090.7	4235.6	4125.6	4050.3	4145.1	4230.0	4131.1	3016.9	2033.5	1583.6
37.5°	2824.7	4019.7	4100.5	3964.0	3860.9	3966.8	4153.4	4008.6	2820.5	1856.6	1447.2
40°	2600.4	3856.7	3923.6	3738.4	3635.3	3791.3	3962.6	3902.7	2599.0	1672.8	1314.8
42.5°	2430.5	3735.6	3755.1	3501.6	3379.0	3544.8	3739.7	3752.3	2419.3	1507.0	1197.8
45°	2206.2	3565.6	3529.4	3250.9	3122.7	3271.8	3564.3	3597.7	2217.4	1363.6	1083.6
47.5°	2004.3	3376.2	3305.2	2979.3	2835.8	3012.7	3337.2	3425.0	1991.7	1231.3	976.4
50°	1794.0	3164.5	3007.1	2725.8	2629.7	2717.4	3048.9	3193.8	1785.6	1100.3	894.2
52.5°	1601.8	2930.5	2735.5	2483.4	2387.3	2459.7	2746.7	2963.9	1580.9	990.3	821.8
55°	1420.7	2696.5	2444.4	2221.6	2202.1	2224.3	2440.2	2689.6	1410.9	892.8	775.8
57.5°	1259.1	2412.4	2182.6	2018.2	1983.4	2001.5	2150.5	2406.8	1246.6	795.3	709.0
60°	1096.2	2121.3	1923.5	1796.8	1777.3	1791.2	1887.3	2131.0	1086.4	713.1	646.3
62.5°	948.5	1828.8	1653.3	1605.9	1592.0	1592.0	1632.4	1855.2	936.0	629.6	598.9
65°	821.8	1578.1	1445.8	1427.7	1431.8	1430.4	1405.4	1548.8	802.3	555.7	557.1
67.5°	693.6	1312.0	1238.2	1260.5	1277.2	1270.3	1217.3	1288.4	676.9	488.9	519.5
70°	575.2	1083.6	1069.7	1119.8	1158.8	1122.6	1046.0	1053.0	555.7	423.4	470.8
72.5°	463.8	876.1	940.2	1009.8	1047.4	1007.0	901.2	870.5	447.1	363.5	426.2
75°	364.9	704.8	806.4	909.5	958.3	906.7	784.2	679.7	355.2	306.4	390.0
77.5°	278.6	558.5	689.5	809.2	856.6	812.0	682.5	530.7	260.5	257.7	351.0
80°	199.2	441.5	611.5	727.1	770.2	727.1	592.0	419.2	181.1	206.1	309.2
82.5°	130.9	341.2	532.1	661.6	709.0	656.0	514.0	323.1	115.6	167.1	278.6
85°	79.4	270.2	463.8	594.7	649.1	597.5	449.9	245.1	64.1	128.1	242.4
87.5°	34.8	208.9	413.7	548.8	597.5	550.2	401.1	192.2	26.5	100.3	207.5
90°	2.8	165.7	364.9	505.6	548.8	504.2	355.2	156.0	0.0	72.4	178.3
92.5°	2.8	142.1	334.3	468.0	516.7	466.6	320.4	128.1	0.0	52.9	150.4
95°	4.2	119.8	303.6	438.7	477.7	434.6	292.5	110.0	0.0	36.2	126.7
97.5°	4.2	108.6	278.6	409.5	452.7	406.7	267.4	98.9	0.0	26.5	103.1
100°	2.8	100.3	259.1	381.6	422.0	378.8	247.9	89.1	0.0	16.7	83.6
102.5°	2.8	93.3	242.4	358.0	390.0	353.8	231.2	83.6	0.0	13.9	68.2
105°	2.8	89.1	227.0	330.1	367.7	330.1	217.3	78.0	0.0	11.1	52.9
107.5°	2.8	83.6	215.9	314.8	345.4	312.0	206.1	73.8	0.0	11.1	43.2
110°	2.8	79.4	206.1	292.5	327.3	295.3	196.4	66.9	0.0	7.0	34.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	2.8	72.4	196.4	277.2	310.6	278.6	188.0	61.3	0.0	7.0	30.6
115°	2.8	65.5	188.0	267.4	292.5	264.6	179.7	54.3	0.0	5.6	27.9
117.5°	2.8	61.3	182.5	254.9	280.0	252.1	172.7	51.5	0.0	5.6	26.5
120°	2.8	58.5	174.1	242.4	261.9	239.6	164.4	48.7	0.0	5.6	25.1
122.5°	2.8	55.7	167.1	231.2	252.1	229.8	157.4	47.4	0.0	4.2	22.3
125°	2.8	52.9	157.4	218.7	238.2	215.9	144.9	46.0	0.0	2.8	19.5
127.5°	2.8	50.1	147.6	208.9	227.0	206.1	136.5	44.6	0.0	2.8	18.1
130°	2.8	48.7	135.1	196.4	214.5	193.6	126.7	44.6	0.0	2.8	16.7
132.5°	2.8	47.4	121.2	183.9	203.4	181.1	117.0	43.2	0.0	2.8	13.9
135°	2.8	46.0	107.2	171.3	189.4	168.5	108.6	41.8	0.0	2.8	12.5
137.5°	2.8	43.2	94.7	157.4	175.5	154.6	103.1	39.0	0.0	2.8	11.1
140°	2.8	40.4	85.0	146.2	161.6	142.1	94.7	36.2	0.0	1.4	8.4
142.5°	2.8	36.2	76.6	132.3	147.6	129.5	85.0	30.6	0.0	1.4	8.4
145°	2.8	32.0	69.6	115.6	133.7	115.6	79.4	27.9	0.0	1.4	7.0
147.5°	2.8	29.2	62.7	97.5	121.2	105.9	71.0	23.7	0.0	1.4	5.6
150°	2.8	26.5	54.3	82.2	107.2	93.3	65.5	20.9	0.0	0.0	4.2
152.5°	2.8	23.7	47.4	68.2	96.1	85.0	58.5	18.1	0.0	0.0	2.8
155°	4.2	22.3	40.4	59.9	83.6	73.8	48.7	15.3	0.0	0.0	2.8
157.5°	4.2	19.5	33.4	48.7	73.8	64.1	39.0	12.5	0.0	0.0	1.4
160°	4.2	18.1	27.9	37.6	61.3	52.9	32.0	9.7	0.0	0.0	1.4
162.5°	4.2	16.7	23.7	27.9	50.1	41.8	25.1	7.0	0.0	0.0	1.4
165°	4.2	13.9	20.9	19.5	39.0	32.0	19.5	4.2	0.0	0.0	0.0
167.5°	4.2	12.5	16.7	13.9	29.2	23.7	13.9	2.8	0.0	0.0	0.0
170°	4.2	9.7	13.9	9.7	8.4	15.3	8.4	1.4	0.0	0.0	0.0
172.5°	4.2	8.4	11.1	7.0	2.8	8.4	4.2	0.0	0.0	0.0	0.0
175°	4.2	7.0	7.0	4.2	1.4	2.8	0.0	0.0	0.0	0.0	0.0
177.5°	4.2	5.6	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7
2.5°	4136.7	4090.7	4049.0	4093.5	4125.6	4249.5
5°	3934.7	3886.0	3891.6	3932.0	4039.2	4264.8
7.5°	3725.8	3645.0	3664.5	3777.4	3936.1	4192.4
10°	3479.3	3405.5	3423.6	3593.5	3816.4	4152.0
12.5°	3259.2	3135.3	3241.1	3401.3	3677.1	4129.7
15°	3001.5	2904.0	2961.2	3197.9	3543.4	4026.7
17.5°	2723.0	2647.8	2716.0	2951.4	3379.0	4015.5
20°	2508.5	2404.0	2484.8	2743.9	3175.7	3898.5
22.5°	2267.5	2188.1	2273.1	2511.3	2968.1	3774.6
25°	2069.7	1986.2	2071.1	2307.9	2784.3	3628.3
27.5°	1877.5	1800.9	1877.5	2094.8	2601.8	3509.9
30°	1709.0	1635.2	1713.2	1922.1	2388.7	3333.0
32.5°	1551.6	1456.9	1557.2	1759.1	2200.7	3197.9
35°	1388.7	1317.6	1392.8	1617.1	1991.7	3008.5
37.5°	1253.5	1179.7	1268.9	1461.1	1814.9	2824.7
40°	1125.4	1059.9	1131.0	1335.7	1664.4	2600.4
42.5°	1025.1	959.7	1032.1	1221.5	1512.6	2430.5
45°	927.6	878.9	937.4	1096.2	1359.4	2206.2
47.5°	856.6	814.8	863.6	1004.2	1231.3	2004.3
50°	795.3	766.1	800.9	912.3	1098.9	1794.0
52.5°	741.0	711.7	752.1	841.3	994.5	1601.8
55°	699.2	672.7	703.4	774.4	890.0	1420.7
57.5°	653.2	636.5	660.2	703.4	807.8	1259.1
60°	619.8	601.7	626.8	661.6	714.5	1096.2
62.5°	582.2	572.5	587.8	615.6	643.5	948.5
65°	548.8	534.8	554.3	564.1	561.3	821.8
67.5°	512.6	508.4	519.5	520.9	500.0	693.6
70°	475.0	472.2	486.1	477.7	434.6	575.2
72.5°	444.3	444.3	452.7	436.0	378.8	463.8
75°	410.9	413.7	420.6	401.1	319.0	364.9
77.5°	380.2	383.0	384.4	358.0	267.4	278.6
80°	345.4	344.0	358.0	324.5	217.3	199.2
82.5°	314.8	309.2	317.6	284.1	175.5	130.9
85°	280.0	281.4	286.9	247.9	140.7	79.4
87.5°	252.1	252.1	257.7	218.7	105.9	34.8
90°	218.7	215.9	224.2	185.2	79.4	2.8
92.5°	190.8	190.8	196.4	158.8	58.5	2.8
95°	163.0	164.4	168.5	130.9	44.6	4.2
97.5°	139.3	140.7	146.2	111.4	32.0	4.2
100°	118.4	119.8	122.6	89.1	25.1	2.8
102.5°	98.9	103.1	103.1	73.8	19.5	2.8
105°	83.6	89.1	86.4	59.9	18.1	2.8
107.5°	69.6	75.2	75.2	48.7	18.1	2.8
110°	57.1	65.5	64.1	41.8	13.9	2.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	48.7	55.7	51.5	36.2	13.9	2.8
115°	41.8	48.7	46.0	33.4	12.5	2.8
117.5°	37.6	41.8	41.8	32.0	12.5	2.8
120°	34.8	39.0	37.6	30.6	12.5	2.8
122.5°	32.0	34.8	34.8	27.9	11.1	2.8
125°	30.6	32.0	33.4	25.1	11.1	2.8
127.5°	29.2	32.0	32.0	23.7	9.7	2.8
130°	26.5	29.2	29.2	22.3	9.7	2.8
132.5°	23.7	26.5	26.5	20.9	9.7	2.8
135°	22.3	25.1	25.1	19.5	9.7	2.8
137.5°	20.9	22.3	22.3	18.1	9.7	2.8
140°	18.1	20.9	20.9	16.7	9.7	2.8
142.5°	16.7	19.5	19.5	15.3	8.4	2.8
145°	15.3	16.7	18.1	13.9	8.4	2.8
147.5°	12.5	15.3	16.7	12.5	8.4	2.8
150°	9.7	13.9	13.9	12.5	8.4	2.8
152.5°	7.0	12.5	12.5	11.1	7.0	2.8
155°	5.6	9.7	11.1	9.7	7.0	4.2
157.5°	4.2	8.4	9.7	9.7	7.0	4.2
160°	2.8	7.0	8.4	8.4	5.6	4.2
162.5°	1.4	5.6	7.0	8.4	5.6	4.2
165°	0.0	4.2	5.6	7.0	5.6	4.2
167.5°	0.0	2.8	4.2	5.6	4.2	4.2
170°	0.0	1.4	2.8	4.2	4.2	4.2
172.5°	0.0	0.0	1.4	2.8	2.8	4.2
175°	0.0	0.0	0.0	1.4	2.8	4.2
177.5°	0.0	0.0	0.0	1.4	2.8	4.2
180°	1.4	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)