

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: P895351

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895351
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-CC83-HI-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

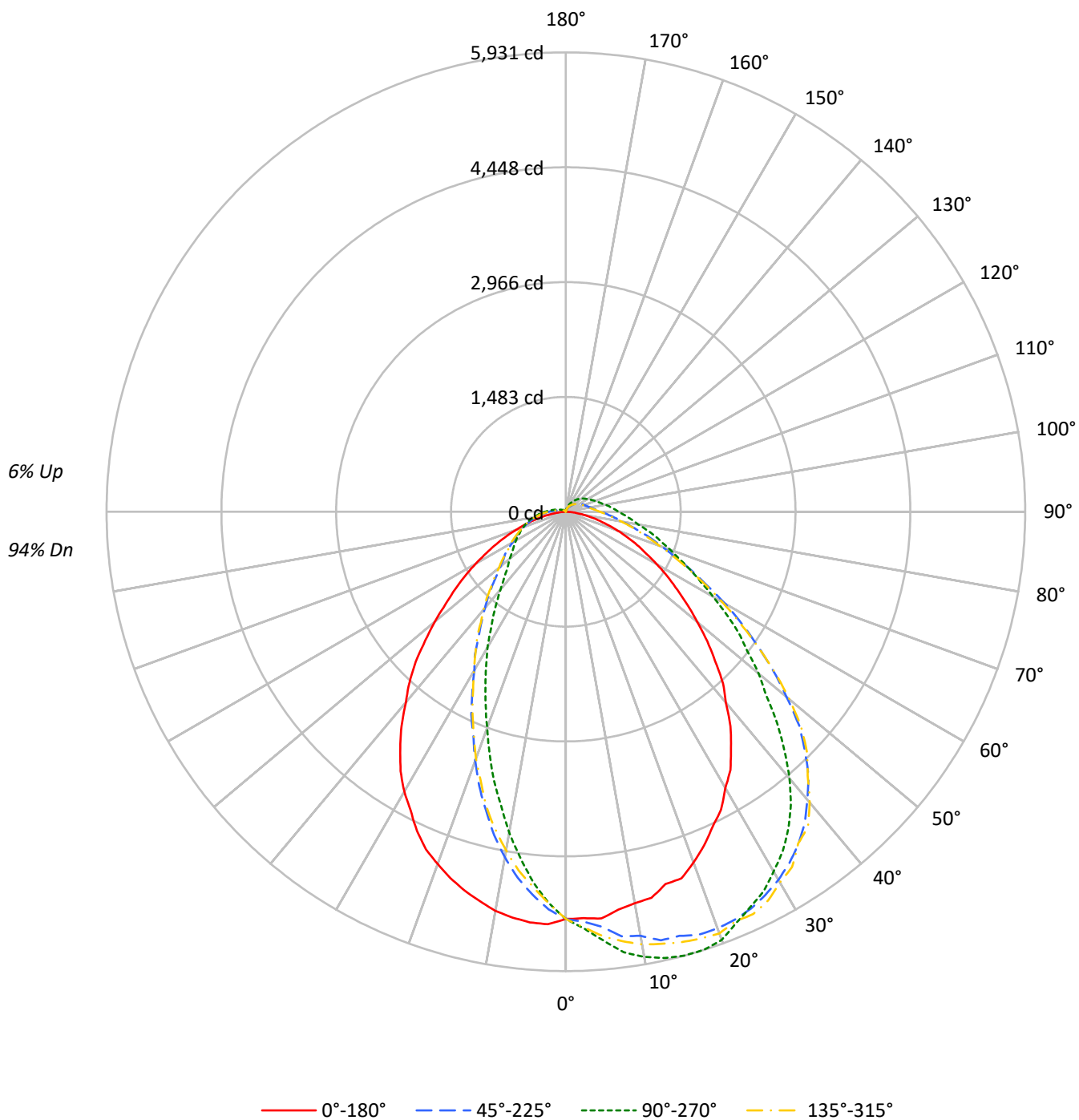
Lumens per Lamp: N/A
Luminaire Lumens: 13104.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	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	94		
1	107	103	98	94	104	100	96	92	95	91	88	90	87	85	85	83	81	79		
2	98	90	83	78	95	88	82	76	83	78	74	79	75	71	75	72	69	66		
3	90	80	72	65	87	78	70	64	74	68	63	70	65	61	67	63	59	57		
4	83	71	63	56	80	69	61	55	66	59	54	63	57	53	60	55	51	49		
5	76	64	55	49	74	62	54	48	60	53	47	57	51	46	55	49	45	43		
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	44	40	38		
7	66	53	44	38	64	51	43	38	49	42	37	48	41	36	46	40	36	34		
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30		
9	57	44	36	31	56	43	36	31	42	35	30	40	34	30	39	33	29	28		
10	54	41	33	28	52	40	33	28	39	32	28	38	31	27	36	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26701	26701	26701	26701
5°	26837	27210	27091	23518
10°	26393	27791	26906	20043
15°	26058	27691	26500	16759
20°	25895	27144	26006	13711
25°	24948	25885	25293	11281
30°	23942	24737	24253	9320
35°	22804	23346	22868	7595
40°	21032	21356	21021	6227
45°	19284	18851	19381	5306
50°	17198	16453	17118	4793
55°	15208	14413	15103	4403
60°	13398	12293	13279	4162
65°	11809	10585	11529	3954
70°	10122	9276	9779	3779
75°	8361	8432	8138	3640
80°	6613	7589	6011	3390
85°	4848	7328	3914	3176

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 26736 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.0	3.8
10°-20°	1373.1	10.5
20°-30°	1975.0	15.1
30°-40°	2241.2	17.1
40°-50°	2141.9	16.3
50°-60°	1740.4	13.3
60°-70°	1214.4	9.3
70°-80°	752.3	5.7
80°-90°	431.5	3.3
90°-100°	258.0	2.0
100°-110°	169.3	1.3
110°-120°	118.7	0.9
120°-130°	86.0	0.7
130°-140°	57.2	0.4
140°-150°	32.2	0.2
150°-160°	14.4	0.1
160°-170°	4.1	0.0
170°-180°	0.4	0.0
0°-30°	3842.0	29.3
0°-40°	6083.2	46.4
0°-60°	9965.6	76.1
0°-90°	12363.8	94.4
90°-120°	546.0	4.2
90°-150°	721.3	5.5
90°-180°	740.0	5.6
0°-180°	13104.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5258	5258	5258	5258	5258	
5°	5271	5557	5321	4803	5271	497
15°	4977	5931	5061	3589	4977	1414
25°	4485	5633	4547	2455	4485	2069
35°	3718	5006	3729	1629	3718	2318
45°	2727	3860	2741	1086	2727	2104
55°	1756	2722	1744	832	1756	1580
65°	1016	1770	992	661	1016	1008
75°	451	1184	439	511	451	487
85°	98	802	79	348	98	110
90°	3	678	0	267	3	7
95°	5	590	0	203	5	4
105°	3	454	0	110	3	4
115°	3	362	0	60	3	3
125°	3	294	0	40	3	3
135°	3	234	0	31	3	3
145°	3	165	0	21	3	2
155°	5	103	0	12	5	2
165°	5	48	0	5	5	1
175°	5	2	0	0	5	0
180°	2	2	2	2	2	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	5257.5	5257.5	5257.5	5257.5	5257.5	5257.5	5257.5	5257.5	5257.5	5257.5	5257.5
2.5°	5252.4	5292.0	5295.4	5419.4	5383.2	5429.7	5371.2	5381.5	5329.9	5316.1	5137.0
5°	5271.3	5355.7	5378.1	5591.5	5557.1	5581.2	5500.3	5441.8	5321.2	5248.9	4959.7
7.5°	5181.8	5403.9	5527.8	5679.3	5736.1	5755.1	5591.5	5483.1	5283.4	5106.1	4766.9
10°	5131.9	5438.3	5558.8	5786.1	5836.0	5799.8	5672.4	5493.4	5231.7	4946.0	4529.3
12.5°	5104.3	5457.2	5667.3	5899.7	5901.4	5863.5	5713.8	5520.9	5147.4	4773.8	4278.0
15°	4976.9	5453.8	5669.0	5904.8	5930.7	5906.6	5753.3	5502.0	5061.3	4560.3	3988.8
17.5°	4963.2	5445.2	5724.1	5972.0	5928.9	5911.7	5777.4	5493.4	4958.0	4343.4	3716.8
20°	4818.6	5426.3	5724.1	5896.2	5882.5	5889.3	5792.9	5481.3	4839.2	4109.3	3419.0
22.5°	4665.3	5403.9	5700.0	5830.8	5748.2	5873.9	5724.1	5448.6	4718.7	3864.8	3122.9
25°	4484.6	5367.7	5653.5	5737.9	5632.8	5731.0	5729.2	5398.7	4546.6	3601.4	2888.7
27.5°	4338.3	5310.9	5577.8	5705.1	5526.1	5610.5	5658.7	5338.5	4343.4	3341.5	2613.3
30°	4119.6	5238.6	5486.5	5505.4	5364.3	5471.0	5526.1	5262.7	4173.0	3047.1	2361.9
32.5°	3952.6	5156.0	5374.6	5348.8	5207.6	5348.8	5438.3	5187.0	3969.8	2788.9	2184.6
35°	3718.5	5056.1	5235.2	5099.2	5006.2	5123.3	5228.3	5106.1	3728.8	2513.4	1957.4
37.5°	3491.3	4968.3	5068.2	4899.5	4772.1	4902.9	5133.6	4954.6	3486.1	2294.8	1788.7
40°	3214.1	4766.9	4849.5	4620.6	4493.2	4686.0	4897.7	4823.7	3212.4	2067.6	1625.1
42.5°	3004.1	4617.1	4641.2	4327.9	4176.4	4381.3	4622.3	4637.8	2990.3	1862.7	1480.5
45°	2726.9	4407.1	4362.4	4018.0	3859.7	4043.9	4405.4	4446.7	2740.7	1685.4	1339.3
47.5°	2477.3	4173.0	4085.2	3682.3	3505.0	3723.7	4124.8	4233.2	2461.8	1521.8	1206.8
50°	2217.3	3911.3	3716.8	3369.0	3250.2	3358.7	3768.4	3947.5	2207.0	1360.0	1105.2
52.5°	1979.8	3622.1	3381.1	3069.5	2950.7	3040.2	3394.9	3663.4	1953.9	1224.0	1015.7
55°	1756.0	3332.9	3021.3	2745.8	2721.7	2749.3	3016.1	3324.3	1743.9	1103.5	958.9
57.5°	1556.3	2981.7	2697.6	2494.5	2451.5	2473.8	2658.0	2974.8	1540.8	983.0	876.3
60°	1354.8	2621.9	2377.4	2220.8	2196.7	2213.9	2332.7	2633.9	1342.8	881.4	798.8
62.5°	1172.4	2260.4	2043.5	1984.9	1967.7	1967.7	2017.6	2293.1	1156.9	778.1	740.3
65°	1015.7	1950.5	1786.9	1764.6	1769.7	1768.0	1737.0	1914.3	991.6	686.9	688.6
67.5°	857.3	1621.7	1530.4	1558.0	1578.6	1570.0	1504.6	1592.4	836.7	604.3	642.1
70°	711.0	1339.3	1322.1	1384.1	1432.3	1387.6	1292.9	1301.5	686.9	523.3	581.9
72.5°	573.3	1082.8	1162.0	1248.1	1294.6	1244.7	1113.8	1076.0	552.6	449.3	526.8
75°	451.0	871.1	996.8	1124.2	1184.4	1120.7	969.2	840.1	439.0	378.7	482.0
77.5°	344.3	690.3	852.2	1000.2	1058.7	1003.7	843.5	655.9	321.9	318.5	433.8
80°	246.2	545.7	755.8	898.6	952.0	898.6	731.6	518.2	223.8	254.8	382.2
82.5°	161.8	421.8	657.6	817.7	876.3	810.8	635.2	399.4	142.9	206.6	344.3
85°	98.1	334.0	573.3	735.1	802.2	738.5	556.1	303.0	79.2	158.4	299.5
87.5°	43.0	258.2	511.3	678.3	738.5	680.0	495.8	237.6	32.7	124.0	256.5
90°	3.4	204.9	451.0	624.9	678.3	623.2	439.0	192.8	0.0	89.5	220.4
92.5°	3.4	175.6	413.2	578.4	638.7	576.7	396.0	158.4	0.0	65.4	185.9
95°	5.2	148.1	375.3	542.3	590.5	537.1	361.5	136.0	0.0	44.8	156.7
97.5°	5.2	134.3	344.3	506.1	559.5	502.7	330.5	122.2	0.0	32.7	127.4
100°	3.4	124.0	320.2	471.7	521.6	468.3	306.4	110.2	0.0	20.7	103.3
102.5°	3.4	115.3	299.5	442.4	482.0	437.3	285.8	103.3	0.0	17.2	84.4
105°	3.4	110.2	280.6	408.0	454.5	408.0	268.6	96.4	0.0	13.8	65.4
107.5°	3.4	103.3	266.8	389.1	426.9	385.6	254.8	91.2	0.0	13.8	53.4
110°	3.4	98.1	254.8	361.5	404.6	365.0	242.7	82.6	0.0	8.6	43.0

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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°	3.4	89.5	242.7	342.6	383.9	344.3	232.4	75.7	0.0	8.6	37.9
115°	3.4	80.9	232.4	330.5	361.5	327.1	222.1	67.1	0.0	6.9	34.4
117.5°	3.4	75.7	225.5	315.0	346.0	311.6	213.5	63.7	0.0	6.9	32.7
120°	3.4	72.3	215.2	299.5	323.6	296.1	203.1	60.3	0.0	6.9	31.0
122.5°	3.4	68.9	206.6	285.8	311.6	284.1	194.5	58.5	0.0	5.2	27.5
125°	3.4	65.4	194.5	270.3	294.4	266.8	179.0	56.8	0.0	3.4	24.1
127.5°	3.4	62.0	182.5	258.2	280.6	254.8	168.7	55.1	0.0	3.4	22.4
130°	3.4	60.3	167.0	242.7	265.1	239.3	156.7	55.1	0.0	3.4	20.7
132.5°	3.4	58.5	149.8	227.2	251.3	223.8	144.6	53.4	0.0	3.4	17.2
135°	3.4	56.8	132.6	211.7	234.1	208.3	134.3	51.6	0.0	3.4	15.5
137.5°	3.4	53.4	117.1	194.5	216.9	191.1	127.4	48.2	0.0	3.4	13.8
140°	3.4	49.9	105.0	180.8	199.7	175.6	117.1	44.8	0.0	1.7	10.3
142.5°	3.4	44.8	94.7	163.5	182.5	160.1	105.0	37.9	0.0	1.7	10.3
145°	3.4	39.6	86.1	142.9	165.3	142.9	98.1	34.4	0.0	1.7	8.6
147.5°	3.4	36.2	77.5	120.5	149.8	130.8	87.8	29.3	0.0	1.7	6.9
150°	3.4	32.7	67.1	101.6	132.6	115.3	80.9	25.8	0.0	0.0	5.2
152.5°	3.4	29.3	58.5	84.4	118.8	105.0	72.3	22.4	0.0	0.0	3.4
155°	5.2	27.5	49.9	74.0	103.3	91.2	60.3	18.9	0.0	0.0	3.4
157.5°	5.2	24.1	41.3	60.3	91.2	79.2	48.2	15.5	0.0	0.0	1.7
160°	5.2	22.4	34.4	46.5	75.7	65.4	39.6	12.1	0.0	0.0	1.7
162.5°	5.2	20.7	29.3	34.4	62.0	51.6	31.0	8.6	0.0	0.0	1.7
165°	5.2	17.2	25.8	24.1	48.2	39.6	24.1	5.2	0.0	0.0	0.0
167.5°	5.2	15.5	20.7	17.2	36.2	29.3	17.2	3.4	0.0	0.0	0.0
170°	5.2	12.1	17.2	12.1	10.3	18.9	10.3	1.7	0.0	0.0	0.0
172.5°	5.2	10.3	13.8	8.6	3.4	10.3	5.2	0.0	0.0	0.0	0.0
175°	5.2	8.6	8.6	5.2	1.7	3.4	0.0	0.0	0.0	0.0	0.0
177.5°	5.2	6.9	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	5257.5	5257.5	5257.5	5257.5	5257.5	5257.5
2.5°	5112.9	5056.1	5004.5	5059.6	5099.2	5252.4
5°	4863.3	4803.1	4809.9	4859.9	4992.4	5271.3
7.5°	4605.1	4505.2	4529.3	4668.8	4865.0	5181.8
10°	4300.4	4209.1	4231.5	4441.5	4717.0	5131.9
12.5°	4028.4	3875.2	4006.0	4204.0	4544.8	5104.3
15°	3709.9	3589.4	3660.0	3952.6	4379.6	4976.9
17.5°	3365.6	3272.6	3357.0	3647.9	4176.4	4963.2
20°	3100.5	2971.4	3071.2	3391.4	3925.1	4818.6
22.5°	2802.6	2704.5	2809.5	3103.9	3668.6	4665.3
25°	2558.2	2454.9	2559.9	2852.6	3441.3	4484.6
27.5°	2320.6	2225.9	2320.6	2589.2	3215.8	4338.3
30°	2112.3	2021.1	2117.5	2375.7	2952.4	4119.6
32.5°	1917.8	1800.7	1924.7	2174.3	2720.0	3952.6
35°	1716.4	1628.6	1721.5	1998.7	2461.8	3718.5
37.5°	1549.4	1458.1	1568.3	1805.9	2243.2	3491.3
40°	1391.0	1310.1	1397.9	1650.9	2057.2	3214.1
42.5°	1267.0	1186.1	1275.7	1509.8	1869.6	3004.1
45°	1146.5	1086.3	1158.6	1354.8	1680.2	2726.9
47.5°	1058.7	1007.1	1067.3	1241.2	1521.8	2477.3
50°	983.0	946.8	989.9	1127.6	1358.3	2217.3
52.5°	915.9	879.7	929.6	1039.8	1229.2	1979.8
55°	864.2	831.5	869.4	957.2	1100.1	1756.0
57.5°	807.4	786.7	816.0	869.4	998.5	1556.3
60°	766.1	743.7	774.7	817.7	883.1	1354.8
62.5°	719.6	707.5	726.5	760.9	795.3	1172.4
65°	678.3	661.1	685.2	697.2	693.8	1015.7
67.5°	633.5	628.4	642.1	643.9	618.0	857.3
70°	587.0	583.6	600.8	590.5	537.1	711.0
72.5°	549.2	549.2	559.5	538.8	468.3	573.3
75°	507.9	511.3	519.9	495.8	394.2	451.0
77.5°	470.0	473.4	475.1	442.4	330.5	344.3
80°	426.9	425.2	442.4	401.1	268.6	246.2
82.5°	389.1	382.2	392.5	351.2	216.9	161.8
85°	346.0	347.7	354.6	306.4	173.9	98.1
87.5°	311.6	311.6	318.5	270.3	130.8	43.0
90°	270.3	266.8	277.2	229.0	98.1	3.4
92.5°	235.8	235.8	242.7	196.3	72.3	3.4
95°	201.4	203.1	208.3	161.8	55.1	5.2
97.5°	172.2	173.9	180.8	137.7	39.6	5.2
100°	146.3	148.1	151.5	110.2	31.0	3.4
102.5°	122.2	127.4	127.4	91.2	24.1	3.4
105°	103.3	110.2	106.7	74.0	22.4	3.4
107.5°	86.1	93.0	93.0	60.3	22.4	3.4
110°	70.6	80.9	79.2	51.6	17.2	3.4



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	60.3	68.9	63.7	44.8	17.2	3.4
115°	51.6	60.3	56.8	41.3	15.5	3.4
117.5°	46.5	51.6	51.6	39.6	15.5	3.4
120°	43.0	48.2	46.5	37.9	15.5	3.4
122.5°	39.6	43.0	43.0	34.4	13.8	3.4
125°	37.9	39.6	41.3	31.0	13.8	3.4
127.5°	36.2	39.6	39.6	29.3	12.1	3.4
130°	32.7	36.2	36.2	27.5	12.1	3.4
132.5°	29.3	32.7	32.7	25.8	12.1	3.4
135°	27.5	31.0	31.0	24.1	12.1	3.4
137.5°	25.8	27.5	27.5	22.4	12.1	3.4
140°	22.4	25.8	25.8	20.7	12.1	3.4
142.5°	20.7	24.1	24.1	18.9	10.3	3.4
145°	18.9	20.7	22.4	17.2	10.3	3.4
147.5°	15.5	18.9	20.7	15.5	10.3	3.4
150°	12.1	17.2	17.2	15.5	10.3	3.4
152.5°	8.6	15.5	15.5	13.8	8.6	3.4
155°	6.9	12.1	13.8	12.1	8.6	5.2
157.5°	5.2	10.3	12.1	12.1	8.6	5.2
160°	3.4	8.6	10.3	10.3	6.9	5.2
162.5°	1.7	6.9	8.6	10.3	6.9	5.2
165°	0.0	5.2	6.9	8.6	6.9	5.2
167.5°	0.0	3.4	5.2	6.9	5.2	5.2
170°	0.0	1.7	3.4	5.2	5.2	5.2
172.5°	0.0	0.0	1.7	3.4	3.4	5.2
175°	0.0	0.0	0.0	1.7	3.4	5.2
177.5°	0.0	0.0	0.0	1.7	3.4	5.2
180°	1.7	1.7	1.7	1.7	1.7	1.7

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