

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: P895360

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895360
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

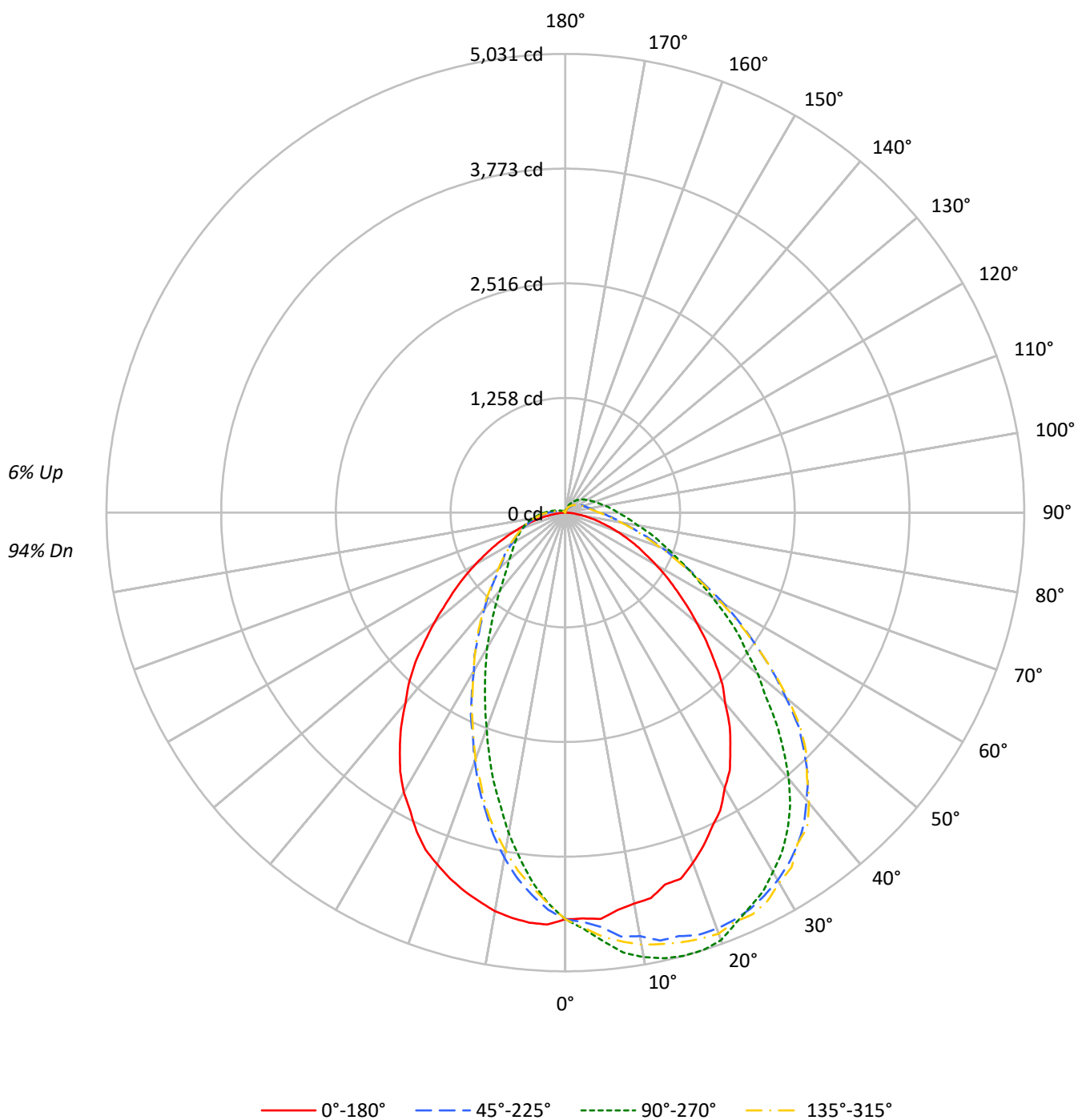
Lumens per Lamp: N/A
Luminaire Lumens: 11116.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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			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°	22651	22651	22651	22651
5°	22765	23082	22981	19950
10°	22388	23574	22824	17003
15°	22105	23490	22480	14217
20°	21966	23025	22061	11631
25°	21163	21958	21456	9570
30°	20310	20985	20573	7906
35°	19345	19804	19398	6442
40°	17842	18116	17832	5282
45°	16358	15991	16441	4501
50°	14589	13957	14521	4066
55°	12901	12226	12812	3735
60°	11366	10428	11265	3531
65°	10018	8979	9780	3354
70°	8586	7868	8296	3206
75°	7093	7153	6904	3088
80°	5608	6438	5098	2875
85°	4112	6216	3321	2695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 22680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.1	3.8
10°-20°	1164.7	10.5
20°-30°	1675.3	15.1
30°-40°	1901.2	17.1
40°-50°	1817.0	16.3
50°-60°	1476.4	13.3
60°-70°	1030.1	9.3
70°-80°	638.2	5.7
80°-90°	366.1	3.3
90°-100°	218.8	2.0
100°-110°	143.6	1.3
110°-120°	100.7	0.9
120°-130°	72.9	0.7
130°-140°	48.5	0.4
140°-150°	27.3	0.2
150°-160°	12.2	0.1
160°-170°	3.5	0.0
170°-180°	0.3	0.0
0°-30°	3259.1	29.3
0°-40°	5160.4	46.4
0°-60°	8453.7	76.1
0°-90°	10488.1	94.4
90°-120°	463.1	4.2
90°-150°	611.9	5.5
90°-180°	628.0	5.6
0°-180°	11116.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4460	4460	4460	4460	4460	
5°	4472	4714	4514	4074	4472	421
15°	4222	5031	4293	3045	4222	1200
25°	3804	4778	3857	2082	3804	1755
35°	3154	4247	3163	1382	3154	1966
45°	2313	3274	2325	922	2313	1785
55°	1490	2309	1479	705	1490	1340
65°	862	1501	841	561	862	855
75°	383	1005	372	434	383	413
85°	83	680	67	295	83	93
90°	3	575	0	226	3	6
95°	4	501	0	172	4	3
105°	3	386	0	94	3	3
115°	3	307	0	51	3	3
125°	3	250	0	34	3	3
135°	3	199	0	26	3	2
145°	3	140	0	18	3	2
155°	4	88	0	10	4	2
165°	4	41	0	4	4	1
175°	4	2	0	0	4	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°	4459.9	4459.9	4459.9	4459.9	4459.9	4459.9	4459.9	4459.9	4459.9	4459.9	4459.9
2.5°	4455.5	4489.1	4492.1	4597.2	4566.5	4606.0	4556.3	4565.1	4521.3	4509.6	4357.7
5°	4471.6	4543.2	4562.2	4743.2	4714.0	4734.5	4665.8	4616.2	4514.0	4452.6	4207.3
7.5°	4395.7	4584.1	4689.2	4817.7	4865.9	4882.0	4743.2	4651.2	4481.8	4331.4	4043.7
10°	4353.3	4613.3	4715.5	4908.3	4950.6	4919.9	4811.9	4660.0	4438.0	4195.6	3842.2
12.5°	4330.0	4629.3	4807.5	5004.6	5006.1	4974.0	4846.9	4683.4	4366.5	4049.6	3629.0
15°	4221.9	4626.4	4809.0	5009.0	5030.9	5010.5	4880.5	4667.3	4293.4	3868.5	3383.6
17.5°	4210.2	4619.1	4855.7	5066.0	5029.5	5014.9	4901.0	4660.0	4205.8	3684.5	3152.9
20°	4087.5	4603.0	4855.7	5001.7	4990.0	4995.9	4914.1	4649.8	4105.1	3485.9	2900.3
22.5°	3957.6	4584.1	4835.2	4946.2	4876.1	4982.7	4855.7	4622.0	4002.8	3278.5	2649.1
25°	3804.2	4553.4	4795.8	4867.4	4778.3	4861.5	4860.1	4579.7	3856.8	3055.1	2450.5
27.5°	3680.1	4505.2	4731.6	4839.6	4687.7	4759.3	4800.2	4528.6	3684.5	2834.6	2216.8
30°	3494.6	4443.9	4654.2	4670.2	4550.5	4641.0	4687.7	4464.3	3539.9	2584.8	2003.6
32.5°	3353.0	4373.8	4559.2	4537.3	4417.6	4537.3	4613.3	4400.1	3367.6	2365.8	1853.2
35°	3154.4	4289.1	4440.9	4325.6	4246.7	4346.0	4435.1	4331.4	3163.1	2132.1	1660.4
37.5°	2961.6	4214.6	4299.3	4156.2	4048.1	4159.1	4354.8	4202.9	2957.2	1946.7	1517.3
40°	2726.5	4043.7	4113.8	3919.6	3811.5	3975.1	4154.7	4091.9	2725.0	1753.9	1378.6
42.5°	2548.3	3916.7	3937.1	3671.3	3542.8	3716.6	3921.1	3934.2	2536.6	1580.1	1255.9
45°	2313.2	3738.5	3700.5	3408.5	3274.1	3430.4	3737.1	3772.1	2324.9	1429.7	1136.2
47.5°	2101.5	3539.9	3465.4	3123.7	2973.3	3158.8	3499.0	3591.0	2088.3	1291.0	1023.7
50°	1880.9	3317.9	3152.9	2857.9	2757.2	2849.2	3196.7	3348.6	1872.2	1153.7	937.5
52.5°	1679.4	3072.6	2868.1	2603.8	2503.1	2579.0	2879.8	3107.6	1657.5	1038.3	861.6
55°	1489.6	2827.2	2562.9	2329.3	2308.8	2332.2	2558.5	2819.9	1479.3	936.1	813.4
57.5°	1320.2	2529.3	2288.4	2116.1	2079.5	2098.5	2254.8	2523.5	1307.0	833.9	743.3
60°	1149.3	2224.1	2016.8	1883.9	1863.4	1878.0	1978.8	2234.3	1139.1	747.7	677.6
62.5°	994.5	1917.4	1733.4	1683.8	1669.2	1669.2	1711.5	1945.2	981.4	660.1	628.0
65°	861.6	1654.6	1515.8	1496.9	1501.2	1499.8	1473.5	1623.9	841.2	582.7	584.1
67.5°	727.3	1375.7	1298.3	1321.6	1339.1	1331.8	1276.4	1350.8	709.7	512.6	544.7
70°	603.1	1136.2	1121.6	1174.1	1215.0	1177.0	1096.7	1104.0	582.7	443.9	493.6
72.5°	486.3	918.6	985.7	1058.8	1098.2	1055.8	944.9	912.7	468.8	381.2	446.9
75°	382.6	738.9	845.5	953.6	1004.7	950.7	822.2	712.7	372.4	321.3	408.9
77.5°	292.1	585.6	722.9	848.5	898.1	851.4	715.6	556.4	273.1	270.2	368.0
80°	208.8	462.9	641.1	762.3	807.6	762.3	620.7	439.6	189.8	216.1	324.2
82.5°	137.3	357.8	557.9	693.7	743.3	687.8	538.9	338.8	121.2	175.2	292.1
85°	83.2	283.3	486.3	623.6	680.5	626.5	471.7	257.0	67.2	134.4	254.1
87.5°	36.5	219.1	433.7	575.4	626.5	576.8	420.6	201.5	27.7	105.1	217.6
90°	2.9	173.8	382.6	530.1	575.4	528.6	372.4	163.6	0.0	75.9	186.9
92.5°	2.9	149.0	350.5	490.7	541.8	489.2	335.9	134.4	0.0	55.5	157.7
95°	4.4	125.6	318.4	460.0	500.9	455.6	306.7	115.4	0.0	38.0	132.9
97.5°	4.4	113.9	292.1	429.3	474.6	426.4	280.4	103.7	0.0	27.7	108.1
100°	2.9	105.1	271.6	400.1	442.5	397.2	259.9	93.5	0.0	17.5	87.6
102.5°	2.9	97.8	254.1	375.3	408.9	370.9	242.4	87.6	0.0	14.6	71.6
105°	2.9	93.5	238.0	346.1	385.5	346.1	227.8	81.8	0.0	11.7	55.5
107.5°	2.9	87.6	226.4	330.0	362.2	327.1	216.1	77.4	0.0	11.7	45.3
110°	2.9	83.2	216.1	306.7	343.2	309.6	205.9	70.1	0.0	7.3	36.5

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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°	2.9	75.9	205.9	290.6	325.7	292.1	197.1	64.3	0.0	7.3	32.1
115°	2.9	68.6	197.1	280.4	306.7	277.5	188.4	57.0	0.0	5.8	29.2
117.5°	2.9	64.3	191.3	267.2	293.5	264.3	181.1	54.0	0.0	5.8	27.7
120°	2.9	61.3	182.5	254.1	274.5	251.2	172.3	51.1	0.0	5.8	26.3
122.5°	2.9	58.4	175.2	242.4	264.3	241.0	165.0	49.7	0.0	4.4	23.4
125°	2.9	55.5	165.0	229.3	249.7	226.4	151.9	48.2	0.0	2.9	20.4
127.5°	2.9	52.6	154.8	219.1	238.0	216.1	143.1	46.7	0.0	2.9	19.0
130°	2.9	51.1	141.7	205.9	224.9	203.0	132.9	46.7	0.0	2.9	17.5
132.5°	2.9	49.7	127.1	192.8	213.2	189.8	122.7	45.3	0.0	2.9	14.6
135°	2.9	48.2	112.4	179.6	198.6	176.7	113.9	43.8	0.0	2.9	13.1
137.5°	2.9	45.3	99.3	165.0	184.0	162.1	108.1	40.9	0.0	2.9	11.7
140°	2.9	42.4	89.1	153.3	169.4	149.0	99.3	38.0	0.0	1.5	8.8
142.5°	2.9	38.0	80.3	138.7	154.8	135.8	89.1	32.1	0.0	1.5	8.8
145°	2.9	33.6	73.0	121.2	140.2	121.2	83.2	29.2	0.0	1.5	7.3
147.5°	2.9	30.7	65.7	102.2	127.1	111.0	74.5	24.8	0.0	1.5	5.8
150°	2.9	27.7	57.0	86.2	112.4	97.8	68.6	21.9	0.0	0.0	4.4
152.5°	2.9	24.8	49.7	71.6	100.8	89.1	61.3	19.0	0.0	0.0	2.9
155°	4.4	23.4	42.4	62.8	87.6	77.4	51.1	16.1	0.0	0.0	2.9
157.5°	4.4	20.4	35.0	51.1	77.4	67.2	40.9	13.1	0.0	0.0	1.5
160°	4.4	19.0	29.2	39.4	64.3	55.5	33.6	10.2	0.0	0.0	1.5
162.5°	4.4	17.5	24.8	29.2	52.6	43.8	26.3	7.3	0.0	0.0	1.5
165°	4.4	14.6	21.9	20.4	40.9	33.6	20.4	4.4	0.0	0.0	0.0
167.5°	4.4	13.1	17.5	14.6	30.7	24.8	14.6	2.9	0.0	0.0	0.0
170°	4.4	10.2	14.6	10.2	8.8	16.1	8.8	1.5	0.0	0.0	0.0
172.5°	4.4	8.8	11.7	7.3	2.9	8.8	4.4	0.0	0.0	0.0	0.0
175°	4.4	7.3	7.3	4.4	1.5	2.9	0.0	0.0	0.0	0.0	0.0
177.5°	4.4	5.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4459.9	4459.9	4459.9	4459.9	4459.9	4459.9
2.5°	4337.3	4289.1	4245.3	4292.0	4325.6	4455.5
5°	4125.5	4074.4	4080.2	4122.6	4235.0	4471.6
7.5°	3906.5	3821.8	3842.2	3960.5	4127.0	4395.7
10°	3648.0	3570.6	3589.6	3767.7	4001.4	4353.3
12.5°	3417.2	3287.3	3398.2	3566.2	3855.3	4330.0
15°	3147.1	3044.8	3104.7	3353.0	3715.1	4221.9
17.5°	2855.0	2776.1	2847.7	3094.5	3542.8	4210.2
20°	2630.1	2520.6	2605.3	2876.9	3329.6	4087.5
22.5°	2377.5	2294.2	2383.3	2633.0	3112.0	3957.6
25°	2170.1	2082.5	2171.5	2419.8	2919.3	3804.2
27.5°	1968.6	1888.2	1968.6	2196.4	2727.9	3680.1
30°	1791.9	1714.5	1796.2	2015.3	2504.5	3494.6
32.5°	1626.8	1527.5	1632.7	1844.4	2307.4	3353.0
35°	1456.0	1381.5	1460.4	1695.5	2088.3	3154.4
37.5°	1314.3	1236.9	1330.4	1531.9	1902.8	2961.6
40°	1180.0	1111.3	1185.8	1400.5	1745.1	2726.5
42.5°	1074.8	1006.2	1082.1	1280.7	1585.9	2548.3
45°	972.6	921.5	982.8	1149.3	1425.3	2313.2
47.5°	898.1	854.3	905.4	1052.9	1291.0	2101.5
50°	833.9	803.2	839.7	956.5	1152.2	1880.9
52.5°	776.9	746.2	788.6	882.1	1042.7	1679.4
55°	733.1	705.4	737.5	812.0	933.2	1489.6
57.5°	684.9	667.4	692.2	737.5	847.0	1320.2
60°	649.9	630.9	657.2	693.7	749.2	1149.3
62.5°	610.4	600.2	616.3	645.5	674.7	994.5
65°	575.4	560.8	581.2	591.4	588.5	861.6
67.5°	537.4	533.0	544.7	546.2	524.3	727.3
70°	498.0	495.1	509.7	500.9	455.6	603.1
72.5°	465.9	465.9	474.6	457.1	397.2	486.3
75°	430.8	433.7	441.0	420.6	334.4	382.6
77.5°	398.7	401.6	403.1	375.3	280.4	292.1
80°	362.2	360.7	375.3	340.3	227.8	208.8
82.5°	330.0	324.2	333.0	297.9	184.0	137.3
85°	293.5	295.0	300.8	259.9	147.5	83.2
87.5°	264.3	264.3	270.2	229.3	111.0	36.5
90°	229.3	226.4	235.1	194.2	83.2	2.9
92.5°	200.1	200.1	205.9	166.5	61.3	2.9
95°	170.9	172.3	176.7	137.3	46.7	4.4
97.5°	146.0	147.5	153.3	116.8	33.6	4.4
100°	124.1	125.6	128.5	93.5	26.3	2.9
102.5°	103.7	108.1	108.1	77.4	20.4	2.9
105°	87.6	93.5	90.5	62.8	19.0	2.9
107.5°	73.0	78.9	78.9	51.1	19.0	2.9
110°	59.9	68.6	67.2	43.8	14.6	2.9



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	51.1	58.4	54.0	38.0	14.6	2.9
115°	43.8	51.1	48.2	35.0	13.1	2.9
117.5°	39.4	43.8	43.8	33.6	13.1	2.9
120°	36.5	40.9	39.4	32.1	13.1	2.9
122.5°	33.6	36.5	36.5	29.2	11.7	2.9
125°	32.1	33.6	35.0	26.3	11.7	2.9
127.5°	30.7	33.6	33.6	24.8	10.2	2.9
130°	27.7	30.7	30.7	23.4	10.2	2.9
132.5°	24.8	27.7	27.7	21.9	10.2	2.9
135°	23.4	26.3	26.3	20.4	10.2	2.9
137.5°	21.9	23.4	23.4	19.0	10.2	2.9
140°	19.0	21.9	21.9	17.5	10.2	2.9
142.5°	17.5	20.4	20.4	16.1	8.8	2.9
145°	16.1	17.5	19.0	14.6	8.8	2.9
147.5°	13.1	16.1	17.5	13.1	8.8	2.9
150°	10.2	14.6	14.6	13.1	8.8	2.9
152.5°	7.3	13.1	13.1	11.7	7.3	2.9
155°	5.8	10.2	11.7	10.2	7.3	4.4
157.5°	4.4	8.8	10.2	10.2	7.3	4.4
160°	2.9	7.3	8.8	8.8	5.8	4.4
162.5°	1.5	5.8	7.3	8.8	5.8	4.4
165°	0.0	4.4	5.8	7.3	5.8	4.4
167.5°	0.0	2.9	4.4	5.8	4.4	4.4
170°	0.0	1.5	2.9	4.4	4.4	4.4
172.5°	0.0	0.0	1.5	2.9	2.9	4.4
175°	0.0	0.0	0.0	1.5	2.9	4.4
177.5°	0.0	0.0	0.0	1.5	2.9	4.4
180°	1.5	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)