

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: P895355

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895355
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-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

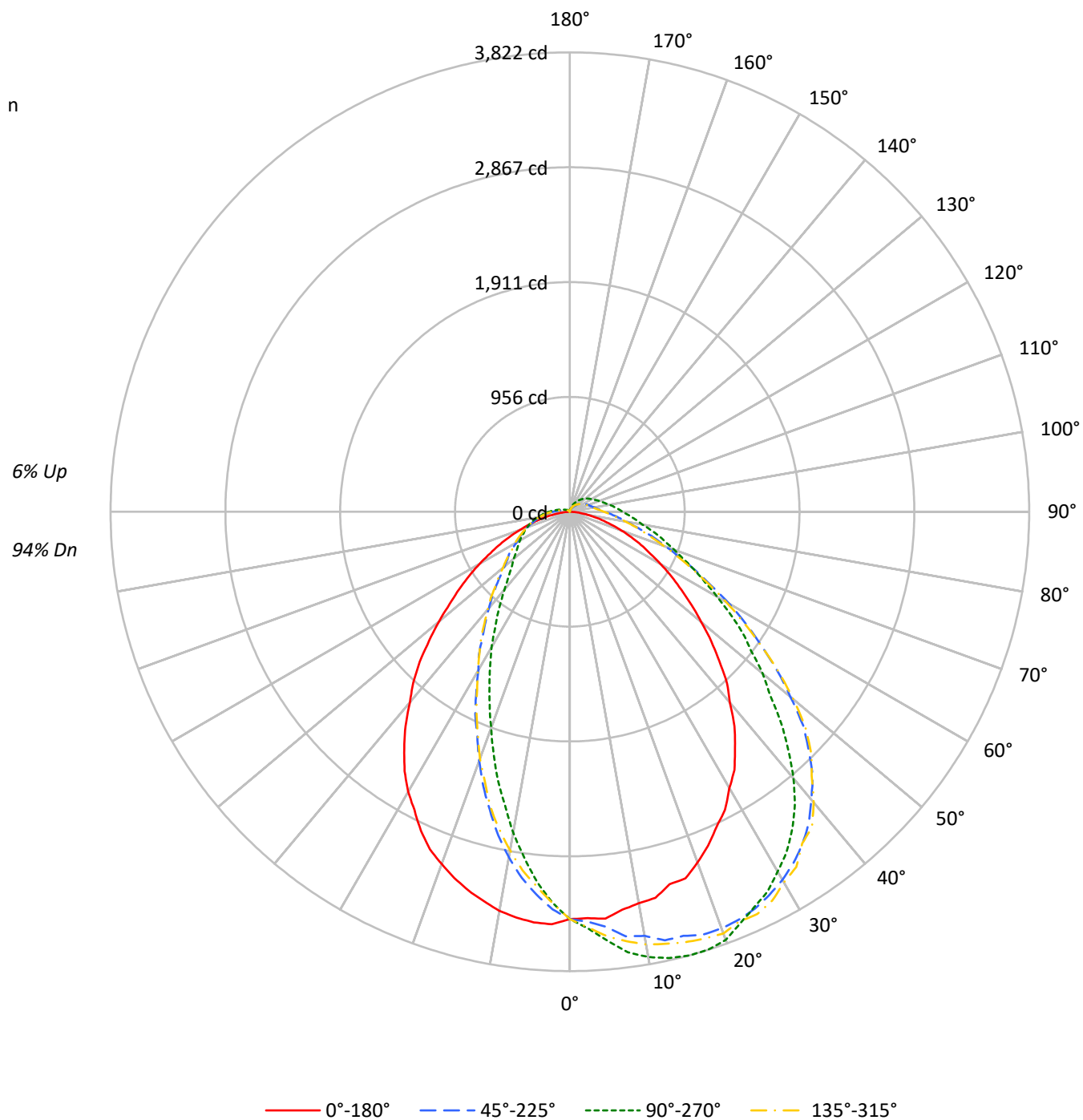
Lumens per Lamp: N/A
Luminaire Lumens: 8445.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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°	17208	17208	17208	17208
5°	17296	17536	17459	15157
10°	17009	17910	17340	12917
15°	16794	17846	17078	10801
20°	16688	17493	16760	8836
25°	16078	16682	16300	7270
30°	15430	15942	15630	6006
35°	14696	15045	14737	4894
40°	13555	13763	13547	4013
45°	12428	12148	12491	3419
50°	11084	10604	11032	3089
55°	9800	9288	9734	2838
60°	8634	7922	8558	2682
65°	7611	6822	7429	2548
70°	6523	5978	6302	2436
75°	5389	5434	5245	2346
80°	4263	4891	3873	2184
85°	3123	4723	2521	2047

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 17230 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	3.8
10°-20°	884.9	10.5
20°-30°	1272.8	15.1
30°-40°	1444.4	17.1
40°-50°	1380.4	16.3
50°-60°	1121.7	13.3
60°-70°	782.6	9.3
70°-80°	484.8	5.7
80°-90°	278.1	3.3
90°-100°	166.2	2.0
100°-110°	109.1	1.3
110°-120°	76.5	0.9
120°-130°	55.4	0.7
130°-140°	36.8	0.4
140°-150°	20.8	0.2
150°-160°	9.3	0.1
160°-170°	2.7	0.0
170°-180°	0.2	0.0
0°-30°	2476.0	29.3
0°-40°	3920.4	46.4
0°-60°	6422.4	76.1
0°-90°	7968.0	94.4
90°-120°	351.8	4.2
90°-150°	464.9	5.5
90°-180°	477.0	5.6
0°-180°	8445.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3388	3388	3388	3388	3388	
5°	3397	3581	3429	3095	3397	320
15°	3207	3822	3262	2313	3207	912
25°	2890	3630	2930	1582	2890	1333
35°	2396	3226	2403	1050	2396	1494
45°	1757	2487	1766	700	1757	1356
55°	1132	1754	1124	536	1132	1018
65°	655	1140	639	426	655	650
75°	291	763	283	330	291	314
85°	63	517	51	224	63	71
90°	2	437	0	172	2	5
95°	3	380	0	131	3	2
105°	2	293	0	71	2	2
115°	2	233	0	39	2	2
125°	2	190	0	26	2	2
135°	2	151	0	20	2	2
145°	2	106	0	13	2	1
155°	3	67	0	8	3	1
165°	3	31	0	3	3	1
175°	3	1	0	0	3	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°	3388.3	3388.3	3388.3	3388.3	3388.3	3388.3	3388.3	3388.3	3388.3	3388.3	3388.3
2.5°	3384.9	3410.5	3412.7	3492.6	3469.3	3499.2	3461.5	3468.2	3434.9	3426.0	3310.6
5°	3397.2	3451.5	3465.9	3603.5	3581.3	3596.9	3544.7	3507.0	3429.3	3382.7	3196.3
7.5°	3339.5	3482.6	3562.5	3660.1	3696.7	3708.9	3603.5	3533.6	3404.9	3290.6	3072.1
10°	3307.3	3504.8	3582.4	3728.9	3761.1	3737.8	3655.7	3540.3	3371.6	3187.5	2919.0
12.5°	3289.5	3517.0	3652.3	3802.1	3803.2	3778.8	3682.3	3558.0	3317.3	3076.5	2757.0
15°	3207.4	3514.8	3653.4	3805.4	3822.1	3806.5	3707.8	3545.8	3261.8	2938.9	2570.6
17.5°	3198.6	3509.2	3688.9	3848.7	3821.0	3809.9	3723.3	3540.3	3195.2	2799.2	2395.3
20°	3105.4	3497.0	3688.9	3799.9	3791.0	3795.4	3733.3	3532.5	3118.7	2648.3	2203.4
22.5°	3006.6	3482.6	3673.4	3757.7	3704.5	3785.5	3688.9	3511.4	3041.0	2490.7	2012.6
25°	2890.1	3459.3	3643.5	3697.8	3630.1	3693.4	3692.3	3479.3	2930.1	2321.0	1861.7
27.5°	2795.8	3422.7	3594.6	3676.7	3561.4	3615.7	3646.8	3440.4	2799.2	2153.5	1684.2
30°	2654.9	3376.1	3535.8	3548.0	3457.1	3525.8	3561.4	3391.6	2689.3	1963.7	1522.2
32.5°	2547.3	3322.8	3463.7	3447.1	3356.1	3447.1	3504.8	3342.8	2558.4	1797.3	1407.9
35°	2396.4	3258.5	3373.9	3286.2	3226.3	3301.7	3369.4	3290.6	2403.1	1619.8	1261.5
37.5°	2250.0	3201.9	3266.2	3157.5	3075.4	3159.7	3308.4	3193.0	2246.6	1478.9	1152.7
40°	2071.4	3072.1	3125.3	2977.8	2895.7	3019.9	3156.4	3108.7	2070.2	1332.5	1047.3
42.5°	1936.0	2975.6	2991.1	2789.2	2691.5	2823.6	2978.9	2988.9	1927.1	1200.4	954.1
45°	1757.4	2840.2	2811.4	2589.5	2487.4	2606.1	2839.1	2865.7	1766.3	1086.2	863.2
47.5°	1596.5	2689.3	2632.7	2373.1	2258.9	2399.8	2658.3	2728.2	1586.5	980.8	777.7
50°	1429.0	2520.7	2395.3	2171.2	2094.7	2164.5	2428.6	2544.0	1422.3	876.5	712.3
52.5°	1275.9	2334.3	2179.0	1978.2	1901.6	1959.3	2187.8	2360.9	1259.2	788.8	654.6
55°	1131.6	2147.9	1947.1	1769.6	1754.0	1771.8	1943.8	2142.4	1123.9	711.2	618.0
57.5°	1002.9	1921.6	1738.5	1607.6	1579.9	1594.3	1713.0	1917.1	993.0	633.5	564.7
60°	873.1	1689.7	1532.2	1431.2	1415.7	1426.8	1503.3	1697.5	865.4	568.0	514.8
62.5°	755.5	1456.7	1316.9	1279.2	1268.1	1268.1	1300.3	1477.8	745.6	501.5	477.1
65°	654.6	1257.0	1151.6	1137.2	1140.5	1139.4	1119.4	1233.7	639.0	442.7	443.8
67.5°	552.5	1045.1	986.3	1004.1	1017.4	1011.8	969.7	1026.2	539.2	389.4	413.8
70°	458.2	863.2	852.1	892.0	923.1	894.2	833.2	838.7	442.7	337.3	375.0
72.5°	369.4	697.8	748.9	804.4	834.3	802.1	717.8	693.4	356.1	289.6	339.5
75°	290.7	561.4	642.4	724.5	763.3	722.3	624.6	541.4	282.9	244.1	310.6
77.5°	221.9	444.9	549.2	644.6	682.3	646.8	543.6	422.7	207.5	205.2	279.6
80°	158.7	351.7	487.1	579.1	613.5	579.1	471.5	333.9	144.2	164.2	246.3
82.5°	104.3	271.8	423.8	527.0	564.7	522.6	409.4	257.4	92.1	133.1	221.9
85°	63.2	215.2	369.4	473.7	517.0	476.0	358.4	195.3	51.0	102.1	193.0
87.5°	27.7	166.4	329.5	437.1	476.0	438.2	319.5	153.1	21.1	79.9	165.3
90°	2.2	132.0	290.7	402.7	437.1	401.6	282.9	124.3	0.0	57.7	142.0
92.5°	2.2	113.2	266.3	372.8	411.6	371.7	255.2	102.1	0.0	42.2	119.8
95°	3.3	95.4	241.9	349.5	380.5	346.2	233.0	87.6	0.0	28.8	101.0
97.5°	3.3	86.5	221.9	326.2	360.6	324.0	213.0	78.8	0.0	21.1	82.1
100°	2.2	79.9	206.4	304.0	336.2	301.8	197.5	71.0	0.0	13.3	66.6
102.5°	2.2	74.3	193.0	285.1	310.6	281.8	184.2	66.6	0.0	11.1	54.4
105°	2.2	71.0	180.8	262.9	292.9	262.9	173.1	62.1	0.0	8.9	42.2
107.5°	2.2	66.6	172.0	250.7	275.1	248.5	164.2	58.8	0.0	8.9	34.4
110°	2.2	63.2	164.2	233.0	260.7	235.2	156.4	53.3	0.0	5.5	27.7

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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°	2.2	57.7	156.4	220.8	247.4	221.9	149.8	48.8	0.0	5.5	24.4
115°	2.2	52.1	149.8	213.0	233.0	210.8	143.1	43.3	0.0	4.4	22.2
117.5°	2.2	48.8	145.3	203.0	223.0	200.8	137.6	41.0	0.0	4.4	21.1
120°	2.2	46.6	138.7	193.0	208.6	190.8	130.9	38.8	0.0	4.4	20.0
122.5°	2.2	44.4	133.1	184.2	200.8	183.1	125.4	37.7	0.0	3.3	17.8
125°	2.2	42.2	125.4	174.2	189.7	172.0	115.4	36.6	0.0	2.2	15.5
127.5°	2.2	39.9	117.6	166.4	180.8	164.2	108.7	35.5	0.0	2.2	14.4
130°	2.2	38.8	107.6	156.4	170.9	154.2	101.0	35.5	0.0	2.2	13.3
132.5°	2.2	37.7	96.5	146.4	162.0	144.2	93.2	34.4	0.0	2.2	11.1
135°	2.2	36.6	85.4	136.5	150.9	134.2	86.5	33.3	0.0	2.2	10.0
137.5°	2.2	34.4	75.4	125.4	139.8	123.1	82.1	31.1	0.0	2.2	8.9
140°	2.2	32.2	67.7	116.5	128.7	113.2	75.4	28.8	0.0	1.1	6.7
142.5°	2.2	28.8	61.0	105.4	117.6	103.2	67.7	24.4	0.0	1.1	6.7
145°	2.2	25.5	55.5	92.1	106.5	92.1	63.2	22.2	0.0	1.1	5.5
147.5°	2.2	23.3	49.9	77.7	96.5	84.3	56.6	18.9	0.0	1.1	4.4
150°	2.2	21.1	43.3	65.5	85.4	74.3	52.1	16.6	0.0	0.0	3.3
152.5°	2.2	18.9	37.7	54.4	76.6	67.7	46.6	14.4	0.0	0.0	2.2
155°	3.3	17.8	32.2	47.7	66.6	58.8	38.8	12.2	0.0	0.0	2.2
157.5°	3.3	15.5	26.6	38.8	58.8	51.0	31.1	10.0	0.0	0.0	1.1
160°	3.3	14.4	22.2	30.0	48.8	42.2	25.5	7.8	0.0	0.0	1.1
162.5°	3.3	13.3	18.9	22.2	39.9	33.3	20.0	5.5	0.0	0.0	1.1
165°	3.3	11.1	16.6	15.5	31.1	25.5	15.5	3.3	0.0	0.0	0.0
167.5°	3.3	10.0	13.3	11.1	23.3	18.9	11.1	2.2	0.0	0.0	0.0
170°	3.3	7.8	11.1	7.8	6.7	12.2	6.7	1.1	0.0	0.0	0.0
172.5°	3.3	6.7	8.9	5.5	2.2	6.7	3.3	0.0	0.0	0.0	0.0
175°	3.3	5.5	5.5	3.3	1.1	2.2	0.0	0.0	0.0	0.0	0.0
177.5°	3.3	4.4	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3388.3	3388.3	3388.3	3388.3	3388.3	3388.3
2.5°	3295.1	3258.5	3225.2	3260.7	3286.2	3384.9
5°	3134.2	3095.4	3099.8	3132.0	3217.4	3397.2
7.5°	2967.8	2903.4	2919.0	3008.8	3135.3	3339.5
10°	2771.4	2712.6	2727.0	2862.4	3039.9	3307.3
12.5°	2596.1	2497.4	2581.7	2709.3	2929.0	3289.5
15°	2390.9	2313.2	2358.7	2547.3	2822.5	3207.4
17.5°	2169.0	2109.1	2163.4	2350.9	2691.5	3198.6
20°	1998.1	1914.9	1979.3	2185.6	2529.6	3105.4
22.5°	1806.2	1743.0	1810.6	2000.3	2364.2	3006.6
25°	1648.7	1582.1	1649.8	1838.4	2217.8	2890.1
27.5°	1495.5	1434.5	1495.5	1668.6	2072.5	2795.8
30°	1361.3	1302.5	1364.6	1531.0	1902.7	2654.9
32.5°	1235.9	1160.5	1240.4	1401.2	1752.9	2547.3
35°	1106.1	1049.5	1109.5	1288.1	1586.5	2396.4
37.5°	998.5	939.7	1010.7	1163.8	1445.6	2250.0
40°	896.4	844.3	900.9	1064.0	1325.8	2071.4
42.5°	816.6	764.4	822.1	973.0	1204.9	1936.0
45°	738.9	700.1	746.7	873.1	1082.8	1757.4
47.5°	682.3	649.0	687.9	799.9	980.8	1596.5
50°	633.5	610.2	637.9	726.7	875.4	1429.0
52.5°	590.2	566.9	599.1	670.1	792.2	1275.9
55°	556.9	535.9	560.3	616.9	708.9	1131.6
57.5°	520.3	507.0	525.9	560.3	643.5	1002.9
60°	493.7	479.3	499.3	527.0	569.2	873.1
62.5°	463.8	456.0	468.2	490.4	512.6	755.5
65°	437.1	426.0	441.6	449.3	447.1	654.6
67.5°	408.3	405.0	413.8	414.9	398.3	552.5
70°	378.3	376.1	387.2	380.5	346.2	458.2
72.5°	353.9	353.9	360.6	347.3	301.8	369.4
75°	327.3	329.5	335.1	319.5	254.1	290.7
77.5°	302.9	305.1	306.2	285.1	213.0	221.9
80°	275.1	274.0	285.1	258.5	173.1	158.7
82.5°	250.7	246.3	253.0	226.3	139.8	104.3
85°	223.0	224.1	228.5	197.5	112.1	63.2
87.5°	200.8	200.8	205.2	174.2	84.3	27.7
90°	174.2	172.0	178.6	147.6	63.2	2.2
92.5°	152.0	152.0	156.4	126.5	46.6	2.2
95°	129.8	130.9	134.2	104.3	35.5	3.3
97.5°	110.9	112.1	116.5	88.8	25.5	3.3
100°	94.3	95.4	97.6	71.0	20.0	2.2
102.5°	78.8	82.1	82.1	58.8	15.5	2.2
105°	66.6	71.0	68.8	47.7	14.4	2.2
107.5°	55.5	59.9	59.9	38.8	14.4	2.2
110°	45.5	52.1	51.0	33.3	11.1	2.2



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	38.8	44.4	41.0	28.8	11.1	2.2
115°	33.3	38.8	36.6	26.6	10.0	2.2
117.5°	30.0	33.3	33.3	25.5	10.0	2.2
120°	27.7	31.1	30.0	24.4	10.0	2.2
122.5°	25.5	27.7	27.7	22.2	8.9	2.2
125°	24.4	25.5	26.6	20.0	8.9	2.2
127.5°	23.3	25.5	25.5	18.9	7.8	2.2
130°	21.1	23.3	23.3	17.8	7.8	2.2
132.5°	18.9	21.1	21.1	16.6	7.8	2.2
135°	17.8	20.0	20.0	15.5	7.8	2.2
137.5°	16.6	17.8	17.8	14.4	7.8	2.2
140°	14.4	16.6	16.6	13.3	7.8	2.2
142.5°	13.3	15.5	15.5	12.2	6.7	2.2
145°	12.2	13.3	14.4	11.1	6.7	2.2
147.5°	10.0	12.2	13.3	10.0	6.7	2.2
150°	7.8	11.1	11.1	10.0	6.7	2.2
152.5°	5.5	10.0	10.0	8.9	5.5	2.2
155°	4.4	7.8	8.9	7.8	5.5	3.3
157.5°	3.3	6.7	7.8	7.8	5.5	3.3
160°	2.2	5.5	6.7	6.7	4.4	3.3
162.5°	1.1	4.4	5.5	6.7	4.4	3.3
165°	0.0	3.3	4.4	5.5	4.4	3.3
167.5°	0.0	2.2	3.3	4.4	3.3	3.3
170°	0.0	1.1	2.2	3.3	3.3	3.3
172.5°	0.0	0.0	1.1	2.2	2.2	3.3
175°	0.0	0.0	0.0	1.1	2.2	3.3
177.5°	0.0	0.0	0.0	1.1	2.2	3.3
180°	1.1	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)