

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: P895357

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895357
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

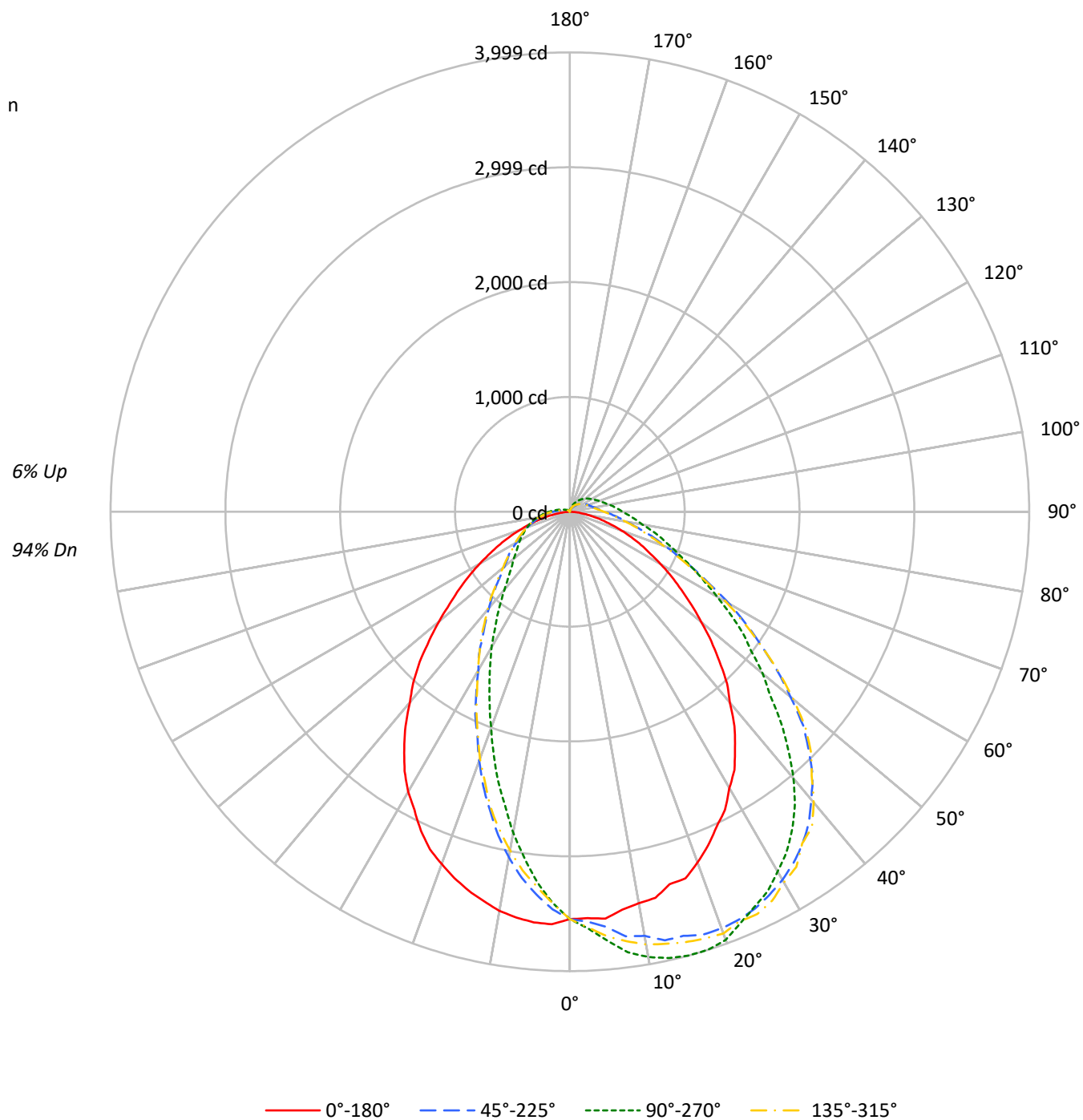
Lumens per Lamp: N/A
Luminaire Lumens: 8836.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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°	18005	18005	18005	18005
5°	18096	18348	18267	15858
10°	17796	18739	18142	13515
15°	17571	18672	17869	11301
20°	17461	18303	17536	9245
25°	16822	17454	17055	7607
30°	16144	16680	16353	6285
35°	15377	15742	15419	5121
40°	14182	14400	14174	4199
45°	13003	12711	13068	3578
50°	11596	11094	11543	3232
55°	10254	9719	10184	2969
60°	9035	8289	8954	2806
65°	7963	7137	7774	2666
70°	6825	6255	6594	2548
75°	5638	5685	5487	2455
80°	4459	5117	4053	2286
85°	3272	4941	2639	2142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 18028 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.1	3.8
10°-20°	925.8	10.5
20°-30°	1331.7	15.1
30°-40°	1511.3	17.1
40°-50°	1444.3	16.3
50°-60°	1173.6	13.3
60°-70°	818.9	9.3
70°-80°	507.3	5.7
80°-90°	291.0	3.3
90°-100°	173.9	2.0
100°-110°	114.2	1.3
110°-120°	80.0	0.9
120°-130°	58.0	0.7
130°-140°	38.5	0.4
140°-150°	21.7	0.2
150°-160°	9.7	0.1
160°-170°	2.8	0.0
170°-180°	0.2	0.0
0°-30°	2590.7	29.3
0°-40°	4101.9	46.4
0°-60°	6719.8	76.1
0°-90°	8336.9	94.4
90°-120°	368.1	4.2
90°-150°	486.4	5.5
90°-180°	499.0	5.6
0°-180°	8836.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3545	3545	3545	3545	3545	
5°	3554	3747	3588	3239	3554	335
15°	3356	3999	3413	2420	3356	954
25°	3024	3798	3066	1655	3024	1395
35°	2507	3376	2514	1098	2507	1563
45°	1839	2603	1848	732	1839	1419
55°	1184	1835	1176	561	1184	1066
65°	685	1193	669	446	685	680
75°	304	799	296	345	304	328
85°	66	541	53	234	66	74
90°	2	457	0	180	2	5
95°	4	398	0	137	4	3
105°	2	306	0	74	2	2
115°	2	244	0	41	2	2
125°	2	198	0	27	2	2
135°	2	158	0	21	2	2
145°	2	111	0	14	2	1
155°	4	70	0	8	4	1
165°	4	32	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°	3545.2	3545.2	3545.2	3545.2	3545.2	3545.2	3545.2	3545.2	3545.2	3545.2	3545.2
2.5°	3541.7	3568.4	3570.7	3654.3	3629.9	3661.2	3621.8	3628.7	3593.9	3584.6	3463.9
5°	3554.4	3611.3	3626.4	3770.4	3747.1	3763.4	3708.8	3669.4	3588.1	3539.3	3344.3
7.5°	3494.1	3643.8	3727.4	3829.6	3867.9	3880.6	3770.4	3697.2	3562.6	3443.0	3214.3
10°	3460.4	3667.0	3748.3	3901.5	3935.2	3910.8	3824.9	3704.2	3527.7	3335.0	3054.1
12.5°	3441.8	3679.8	3821.4	3978.1	3979.3	3953.8	3852.8	3722.8	3470.9	3219.0	2884.6
15°	3355.9	3677.5	3822.6	3981.6	3999.0	3982.8	3879.5	3710.0	3412.8	3075.0	2689.6
17.5°	3346.7	3671.7	3859.7	4026.9	3997.9	3986.3	3895.7	3704.2	3343.2	2928.8	2506.2
20°	3249.1	3658.9	3859.7	3975.8	3966.5	3971.2	3906.2	3696.1	3263.1	2770.9	2305.4
22.5°	3145.8	3643.8	3843.5	3931.7	3876.0	3960.7	3859.7	3674.0	3181.8	2606.0	2105.7
25°	3023.9	3619.4	3812.1	3869.0	3798.2	3864.4	3863.2	3640.3	3065.7	2428.4	1947.9
27.5°	2925.3	3581.1	3761.1	3847.0	3726.2	3783.1	3815.6	3599.7	2928.8	2253.2	1762.1
30°	2777.8	3532.4	3699.5	3712.3	3617.1	3689.1	3726.2	3548.6	2813.8	2054.7	1592.6
32.5°	2665.2	3476.7	3624.1	3606.7	3511.5	3606.7	3667.0	3497.6	2676.9	1880.5	1473.1
35°	2507.4	3409.3	3530.1	3438.4	3375.7	3454.6	3525.4	3443.0	2514.3	1694.8	1319.9
37.5°	2354.1	3350.1	3417.5	3303.7	3217.8	3306.0	3461.6	3340.8	2350.7	1547.4	1206.1
40°	2167.3	3214.3	3270.0	3115.6	3029.7	3159.8	3302.5	3252.6	2166.1	1394.1	1095.8
42.5°	2025.6	3113.3	3129.6	2918.3	2816.2	2954.3	3116.8	3127.3	2016.3	1256.0	998.3
45°	1838.7	2971.7	2941.5	2709.4	2602.6	2726.8	2970.5	2998.4	1848.0	1136.4	903.1
47.5°	1670.4	2813.8	2754.6	2483.0	2363.4	2510.9	2781.3	2854.5	1660.0	1026.2	813.7
50°	1495.1	2637.4	2506.2	2271.7	2191.6	2264.8	2541.0	2661.8	1488.2	917.1	745.2
52.5°	1334.9	2442.4	2279.9	2069.7	1989.7	2050.0	2289.1	2470.2	1317.5	825.3	684.9
55°	1184.0	2247.4	2037.2	1851.5	1835.3	1853.8	2033.8	2241.5	1175.9	744.1	646.6
57.5°	1049.4	2010.5	1819.0	1682.0	1653.0	1668.1	1792.3	2005.9	1038.9	662.8	590.9
60°	913.6	1767.9	1603.1	1497.5	1481.2	1492.8	1572.9	1776.1	905.4	594.3	538.6
62.5°	790.5	1524.2	1377.9	1338.4	1326.8	1326.8	1360.5	1546.2	780.1	524.7	499.2
65°	684.9	1315.2	1204.9	1189.8	1193.3	1192.2	1171.3	1290.8	668.6	463.2	464.3
67.5°	578.1	1093.5	1032.0	1050.5	1064.5	1058.7	1014.6	1073.8	564.2	407.4	433.0
70°	479.4	903.1	891.5	933.3	965.8	935.6	871.8	877.6	463.2	352.9	392.4
72.5°	386.6	730.2	783.6	841.6	872.9	839.3	751.1	725.5	372.6	303.0	355.2
75°	304.1	587.4	672.1	758.0	798.6	755.7	653.5	566.5	296.0	255.4	325.0
77.5°	232.2	465.5	574.6	674.4	713.9	676.8	568.8	442.3	217.1	214.8	292.5
80°	166.0	368.0	509.6	605.9	641.9	605.9	493.3	349.4	150.9	171.8	257.7
82.5°	109.1	284.4	443.4	551.4	590.9	546.7	428.3	269.3	96.3	139.3	232.2
85°	66.2	225.2	386.6	495.7	540.9	498.0	374.9	204.3	53.4	106.8	202.0
87.5°	29.0	174.1	344.8	457.4	498.0	458.5	334.3	160.2	22.1	83.6	173.0
90°	2.3	138.1	304.1	421.4	457.4	420.2	296.0	130.0	0.0	60.4	148.6
92.5°	2.3	118.4	278.6	390.0	430.7	388.9	267.0	106.8	0.0	44.1	125.4
95°	3.5	99.8	253.1	365.7	398.2	362.2	243.8	91.7	0.0	30.2	105.6
97.5°	3.5	90.5	232.2	341.3	377.3	339.0	222.9	82.4	0.0	22.1	85.9
100°	2.3	83.6	215.9	318.1	351.7	315.7	206.6	74.3	0.0	13.9	69.6
102.5°	2.3	77.8	202.0	298.3	325.0	294.8	192.7	69.6	0.0	11.6	56.9
105°	2.3	74.3	189.2	275.1	306.5	275.1	181.1	65.0	0.0	9.3	44.1
107.5°	2.3	69.6	179.9	262.3	287.9	260.0	171.8	61.5	0.0	9.3	36.0
110°	2.3	66.2	171.8	243.8	272.8	246.1	163.7	55.7	0.0	5.8	29.0

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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°	2.3	60.4	163.7	231.0	258.9	232.2	156.7	51.1	0.0	5.8	25.5
115°	2.3	54.6	156.7	222.9	243.8	220.6	149.7	45.3	0.0	4.6	23.2
117.5°	2.3	51.1	152.1	212.4	233.3	210.1	143.9	43.0	0.0	4.6	22.1
120°	2.3	48.8	145.1	202.0	218.2	199.7	137.0	40.6	0.0	4.6	20.9
122.5°	2.3	46.4	139.3	192.7	210.1	191.5	131.2	39.5	0.0	3.5	18.6
125°	2.3	44.1	131.2	182.2	198.5	179.9	120.7	38.3	0.0	2.3	16.3
127.5°	2.3	41.8	123.0	174.1	189.2	171.8	113.8	37.1	0.0	2.3	15.1
130°	2.3	40.6	112.6	163.7	178.8	161.4	105.6	37.1	0.0	2.3	13.9
132.5°	2.3	39.5	101.0	153.2	169.5	150.9	97.5	36.0	0.0	2.3	11.6
135°	2.3	38.3	89.4	142.8	157.9	140.5	90.5	34.8	0.0	2.3	10.4
137.5°	2.3	36.0	78.9	131.2	146.3	128.9	85.9	32.5	0.0	2.3	9.3
140°	2.3	33.7	70.8	121.9	134.7	118.4	78.9	30.2	0.0	1.2	7.0
142.5°	2.3	30.2	63.8	110.3	123.0	108.0	70.8	25.5	0.0	1.2	7.0
145°	2.3	26.7	58.0	96.3	111.4	96.3	66.2	23.2	0.0	1.2	5.8
147.5°	2.3	24.4	52.2	81.3	101.0	88.2	59.2	19.7	0.0	1.2	4.6
150°	2.3	22.1	45.3	68.5	89.4	77.8	54.6	17.4	0.0	0.0	3.5
152.5°	2.3	19.7	39.5	56.9	80.1	70.8	48.8	15.1	0.0	0.0	2.3
155°	3.5	18.6	33.7	49.9	69.6	61.5	40.6	12.8	0.0	0.0	2.3
157.5°	3.5	16.3	27.9	40.6	61.5	53.4	32.5	10.4	0.0	0.0	1.2
160°	3.5	15.1	23.2	31.3	51.1	44.1	26.7	8.1	0.0	0.0	1.2
162.5°	3.5	13.9	19.7	23.2	41.8	34.8	20.9	5.8	0.0	0.0	1.2
165°	3.5	11.6	17.4	16.3	32.5	26.7	16.3	3.5	0.0	0.0	0.0
167.5°	3.5	10.4	13.9	11.6	24.4	19.7	11.6	2.3	0.0	0.0	0.0
170°	3.5	8.1	11.6	8.1	7.0	12.8	7.0	1.2	0.0	0.0	0.0
172.5°	3.5	7.0	9.3	5.8	2.3	7.0	3.5	0.0	0.0	0.0	0.0
175°	3.5	5.8	5.8	3.5	1.2	2.3	0.0	0.0	0.0	0.0	0.0
177.5°	3.5	4.6	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3545.2	3545.2	3545.2	3545.2	3545.2	3545.2
2.5°	3447.6	3409.3	3374.5	3411.7	3438.4	3541.7
5°	3279.3	3238.7	3243.3	3277.0	3366.4	3554.4
7.5°	3105.2	3037.9	3054.1	3148.2	3280.5	3494.1
10°	2899.7	2838.2	2853.3	2994.9	3180.7	3460.4
12.5°	2716.3	2613.0	2701.2	2834.7	3064.6	3441.8
15°	2501.6	2420.3	2467.9	2665.2	2953.1	3355.9
17.5°	2269.4	2206.7	2263.6	2459.8	2816.2	3346.7
20°	2090.6	2003.6	2070.9	2286.8	2646.7	3249.1
22.5°	1889.8	1823.7	1894.5	2093.0	2473.7	3145.8
25°	1725.0	1655.3	1726.1	1923.5	2320.5	3023.9
27.5°	1564.8	1500.9	1564.8	1745.9	2168.4	2925.3
30°	1424.3	1362.8	1427.8	1601.9	1990.8	2777.8
32.5°	1293.2	1214.2	1297.8	1466.1	1834.1	2665.2
35°	1157.3	1098.1	1160.8	1347.7	1660.0	2507.4
37.5°	1044.7	983.2	1057.5	1217.7	1512.6	2354.1
40°	937.9	883.4	942.6	1113.2	1387.2	2167.3
42.5°	854.4	799.8	860.2	1018.0	1260.7	2025.6
45°	773.1	732.5	781.2	913.6	1133.0	1838.7
47.5°	713.9	679.1	719.7	837.0	1026.2	1670.4
50°	662.8	638.5	667.5	760.3	915.9	1495.1
52.5°	617.6	593.2	626.8	701.1	828.8	1334.9
55°	582.7	560.7	586.2	645.4	741.8	1184.0
57.5°	544.4	530.5	550.2	586.2	673.3	1049.4
60°	516.6	501.5	522.4	551.4	595.5	913.6
62.5°	485.2	477.1	489.9	513.1	536.3	790.5
65°	457.4	445.8	462.0	470.1	467.8	684.9
67.5°	427.2	423.7	433.0	434.1	416.7	578.1
70°	395.8	393.5	405.1	398.2	362.2	479.4
72.5°	370.3	370.3	377.3	363.3	315.7	386.6
75°	342.4	344.8	350.6	334.3	265.8	304.1
77.5°	316.9	319.2	320.4	298.3	222.9	232.2
80°	287.9	286.7	298.3	270.5	181.1	166.0
82.5°	262.3	257.7	264.7	236.8	146.3	109.1
85°	233.3	234.5	239.1	206.6	117.2	66.2
87.5°	210.1	210.1	214.8	182.2	88.2	29.0
90°	182.2	179.9	186.9	154.4	66.2	2.3
92.5°	159.0	159.0	163.7	132.3	48.8	2.3
95°	135.8	137.0	140.5	109.1	37.1	3.5
97.5°	116.1	117.2	121.9	92.9	26.7	3.5
100°	98.7	99.8	102.2	74.3	20.9	2.3
102.5°	82.4	85.9	85.9	61.5	16.3	2.3
105°	69.6	74.3	72.0	49.9	15.1	2.3
107.5°	58.0	62.7	62.7	40.6	15.1	2.3
110°	47.6	54.6	53.4	34.8	11.6	2.3

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	40.6	46.4	43.0	30.2	11.6	2.3
115°	34.8	40.6	38.3	27.9	10.4	2.3
117.5°	31.3	34.8	34.8	26.7	10.4	2.3
120°	29.0	32.5	31.3	25.5	10.4	2.3
122.5°	26.7	29.0	29.0	23.2	9.3	2.3
125°	25.5	26.7	27.9	20.9	9.3	2.3
127.5°	24.4	26.7	26.7	19.7	8.1	2.3
130°	22.1	24.4	24.4	18.6	8.1	2.3
132.5°	19.7	22.1	22.1	17.4	8.1	2.3
135°	18.6	20.9	20.9	16.3	8.1	2.3
137.5°	17.4	18.6	18.6	15.1	8.1	2.3
140°	15.1	17.4	17.4	13.9	8.1	2.3
142.5°	13.9	16.3	16.3	12.8	7.0	2.3
145°	12.8	13.9	15.1	11.6	7.0	2.3
147.5°	10.4	12.8	13.9	10.4	7.0	2.3
150°	8.1	11.6	11.6	10.4	7.0	2.3
152.5°	5.8	10.4	10.4	9.3	5.8	2.3
155°	4.6	8.1	9.3	8.1	5.8	3.5
157.5°	3.5	7.0	8.1	8.1	5.8	3.5
160°	2.3	5.8	7.0	7.0	4.6	3.5
162.5°	1.2	4.6	5.8	7.0	4.6	3.5
165°	0.0	3.5	4.6	5.8	4.6	3.5
167.5°	0.0	2.3	3.5	4.6	3.5	3.5
170°	0.0	1.2	2.3	3.5	3.5	3.5
172.5°	0.0	0.0	1.2	2.3	2.3	3.5
175°	0.0	0.0	0.0	1.2	2.3	3.5
177.5°	0.0	0.0	0.0	1.2	2.3	3.5
180°	1.2	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)