

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: P895365

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895365
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-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

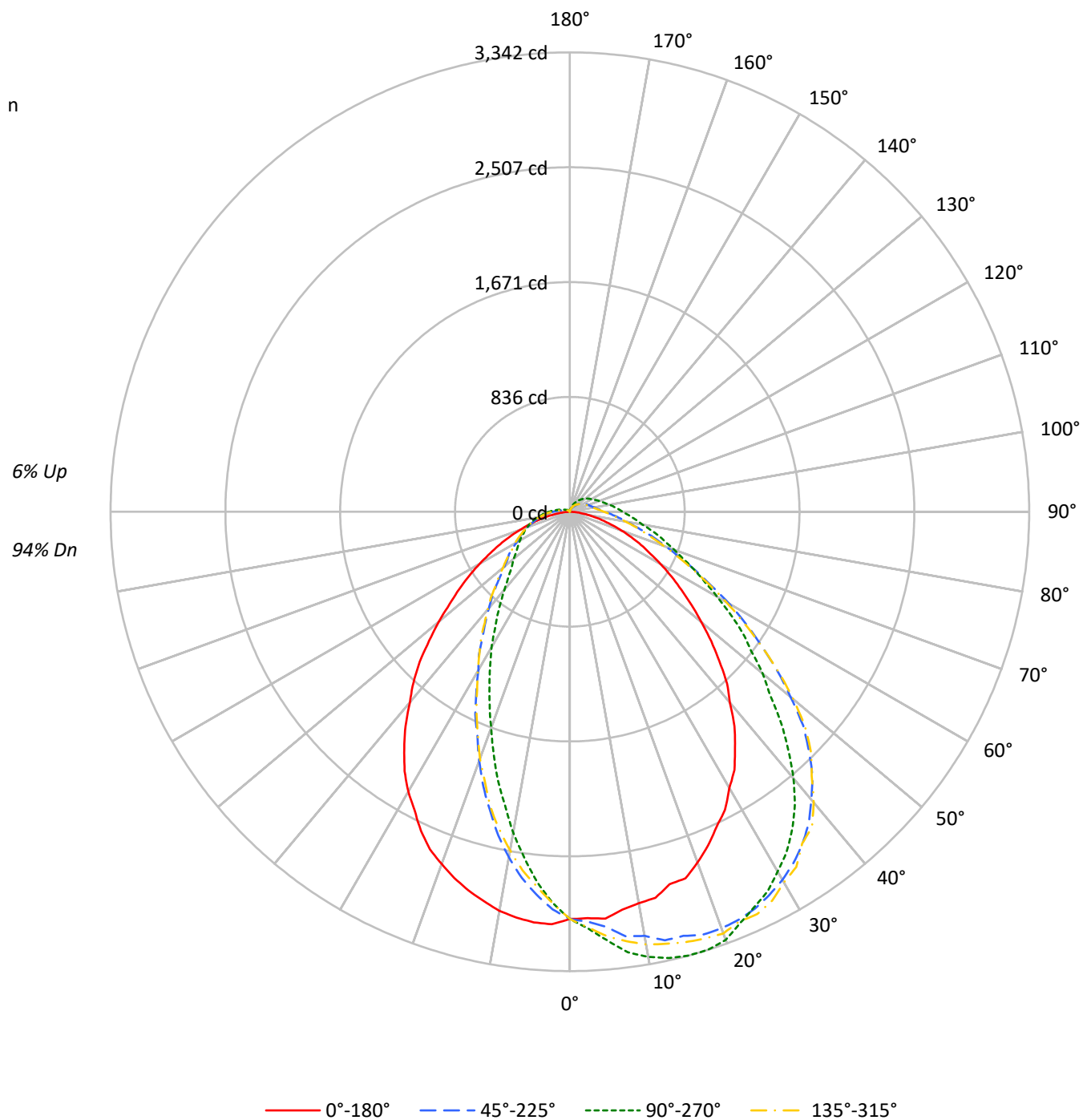
Lumens per Lamp: N/A
Luminaire Lumens: 7384.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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

TEST NUMBER: P895365

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-4000K

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°	15046	15046	15046	15046
5°	15122	15333	15266	13252
10°	14872	15660	15161	11294
15°	14684	15604	14933	9444
20°	14591	15295	14654	7726
25°	14058	14586	14252	6357
30°	13492	13939	13666	5252
35°	12850	13155	12886	4280
40°	11851	12034	11845	3509
45°	10866	10622	10921	2990
50°	9691	9271	9646	2701
55°	8570	8122	8511	2481
60°	7549	6927	7483	2345
65°	6654	5964	6497	2228
70°	5703	5227	5511	2130
75°	4713	4751	4586	2051
80°	3726	4276	3387	1910
85°	2733	4130	2204	1790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 15066 cd/sqm

TEST NUMBER: P895365

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	3.8
10°-20°	773.7	10.5
20°-30°	1112.9	15.1
30°-40°	1262.9	17.1
40°-50°	1207.0	16.3
50°-60°	980.7	13.3
60°-70°	684.3	9.3
70°-80°	423.9	5.7
80°-90°	243.2	3.3
90°-100°	145.4	2.0
100°-110°	95.4	1.3
110°-120°	66.9	0.9
120°-130°	48.4	0.7
130°-140°	32.2	0.4
140°-150°	18.2	0.2
150°-160°	8.1	0.1
160°-170°	2.3	0.0
170°-180°	0.2	0.0
0°-30°	2164.9	29.3
0°-40°	3427.9	46.4
0°-60°	5615.5	76.0
0°-90°	6966.9	94.4
90°-120°	307.7	4.2
90°-150°	406.5	5.5
90°-180°	417.0	5.6
0°-180°	7384.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2963	2963	2963	2963	2963	
5°	2970	3131	2998	2706	2970	280
15°	2804	3342	2852	2023	2804	797
25°	2527	3174	2562	1383	2527	1166
35°	2095	2821	2101	918	2095	1306
45°	1537	2175	1544	612	1537	1186
55°	990	1534	983	468	990	890
65°	572	997	559	372	572	568
75°	254	667	247	288	254	274
85°	55	452	45	196	55	62
90°	2	382	0	150	2	4
95°	3	333	0	114	3	2
105°	2	256	0	62	2	2
115°	2	204	0	34	2	2
125°	2	166	0	22	2	2
135°	2	132	0	18	2	1
145°	2	93	0	12	2	1
155°	3	58	0	7	3	1
165°	3	27	0	3	3	1
175°	3	1	0	0	3	0
180°	1	1	1	1	1	

TEST NUMBER: P895365

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2962.6	2962.6	2962.6	2962.6	2962.6	2962.6	2962.6	2962.6	2962.6	2962.6	2962.6
2.5°	2959.7	2982.0	2983.9	3053.8	3033.4	3059.6	3026.6	3032.4	3003.3	2995.6	2894.7
5°	2970.3	3017.9	3030.5	3150.8	3131.4	3145.0	3099.4	3066.4	2998.5	2957.7	2794.8
7.5°	2919.9	3045.0	3114.9	3200.3	3232.3	3242.9	3150.8	3089.7	2977.1	2877.2	2686.1
10°	2891.8	3064.4	3132.3	3260.4	3288.5	3268.2	3196.4	3095.5	2948.0	2787.0	2552.2
12.5°	2876.2	3075.1	3193.5	3324.4	3325.4	3304.0	3219.7	3111.0	2900.5	2690.0	2410.6
15°	2804.5	3073.2	3194.4	3327.3	3341.9	3328.3	3242.0	3100.3	2852.0	2569.7	2247.6
17.5°	2796.7	3068.3	3225.5	3365.2	3340.9	3331.2	3255.5	3095.5	2793.8	2447.5	2094.4
20°	2715.2	3057.7	3225.5	3322.5	3314.7	3318.6	3264.3	3088.7	2726.9	2315.6	1926.6
22.5°	2628.9	3045.0	3211.9	3285.6	3239.1	3309.9	3225.5	3070.3	2659.0	2177.8	1759.7
25°	2527.0	3024.7	3185.7	3233.2	3174.1	3229.4	3228.4	3042.1	2561.9	2029.4	1627.8
27.5°	2444.6	2992.7	3143.0	3214.8	3113.9	3161.4	3188.6	3008.2	2447.5	1882.9	1472.6
30°	2321.4	2951.9	3091.6	3102.3	3022.7	3082.9	3113.9	2965.5	2351.4	1717.0	1330.9
32.5°	2227.3	2905.4	3028.6	3014.0	2934.5	3014.0	3064.4	2922.8	2237.0	1571.5	1231.0
35°	2095.3	2849.1	2950.0	2873.3	2821.0	2886.9	2946.1	2877.2	2101.2	1416.3	1103.0
37.5°	1967.3	2799.6	2855.9	2760.8	2689.0	2762.8	2892.7	2791.9	1964.4	1293.1	1007.9
40°	1811.1	2686.1	2732.7	2603.7	2531.9	2640.5	2759.8	2718.1	1810.1	1165.1	915.7
42.5°	1692.8	2601.7	2615.3	2438.7	2353.4	2468.8	2604.6	2613.4	1685.0	1049.6	834.3
45°	1536.6	2483.4	2458.2	2264.1	2174.9	2278.7	2482.4	2505.7	1544.3	949.7	754.7
47.5°	1395.9	2351.4	2302.0	2075.0	1975.1	2098.3	2324.3	2385.4	1387.2	857.5	680.0
50°	1249.4	2204.0	2094.4	1898.4	1831.5	1892.6	2123.5	2224.4	1243.6	766.4	622.8
52.5°	1115.6	2041.0	1905.2	1729.6	1662.7	1713.1	1913.0	2064.3	1101.0	689.7	572.3
55°	989.5	1878.1	1702.5	1547.3	1533.7	1549.2	1699.6	1873.2	982.7	621.8	540.3
57.5°	876.9	1680.2	1520.1	1405.6	1381.4	1394.0	1497.8	1676.3	868.2	553.9	493.8
60°	763.4	1477.4	1339.7	1251.4	1237.8	1247.5	1314.4	1484.2	756.7	496.7	450.1
62.5°	660.6	1273.7	1151.5	1118.5	1108.8	1108.8	1136.9	1292.1	651.9	438.5	417.1
65°	572.3	1099.1	1006.9	994.3	997.2	996.3	978.8	1078.7	558.8	387.1	388.0
67.5°	483.1	913.8	862.4	877.9	889.6	884.7	847.8	897.3	471.5	340.5	361.8
70°	400.6	754.7	745.0	779.9	807.1	781.9	728.5	733.4	387.1	294.9	327.9
72.5°	323.0	610.2	654.8	703.3	729.5	701.4	627.6	606.3	311.4	253.2	296.8
75°	254.2	490.9	561.7	633.5	667.4	631.5	546.1	473.4	247.4	213.4	271.6
77.5°	194.0	389.0	480.2	563.6	596.6	565.5	475.3	369.6	181.4	179.5	244.5
80°	138.7	307.5	425.9	506.4	536.4	506.4	412.3	292.0	126.1	143.6	215.4
82.5°	91.2	237.7	370.6	460.8	493.8	456.9	358.0	225.1	80.5	116.4	194.0
85°	55.3	188.2	323.0	414.2	452.1	416.2	313.3	170.7	44.6	89.2	168.8
87.5°	24.3	145.5	288.1	382.2	416.2	383.2	279.4	133.9	18.4	69.8	144.5
90°	1.9	115.4	254.2	352.1	382.2	351.2	247.4	108.6	0.0	50.4	124.2
92.5°	1.9	98.9	232.8	325.9	359.9	325.0	223.1	89.2	0.0	36.9	104.8
95°	2.9	83.4	211.5	305.6	332.7	302.7	203.7	76.6	0.0	25.2	88.3
97.5°	2.9	75.7	194.0	285.2	315.3	283.3	186.3	68.9	0.0	18.4	71.8
100°	1.9	69.8	180.4	265.8	293.9	263.9	172.7	62.1	0.0	11.6	58.2
102.5°	1.9	65.0	168.8	249.3	271.6	246.4	161.0	58.2	0.0	9.7	47.5
105°	1.9	62.1	158.1	229.9	256.1	229.9	151.3	54.3	0.0	7.8	36.9
107.5°	1.9	58.2	150.4	219.2	240.6	217.3	143.6	51.4	0.0	7.8	30.1
110°	1.9	55.3	143.6	203.7	228.0	205.7	136.8	46.6	0.0	4.9	24.3

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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1.9	50.4	136.8	193.0	216.3	194.0	131.0	42.7	0.0	4.9	21.3
115°	1.9	45.6	131.0	186.3	203.7	184.3	125.1	37.8	0.0	3.9	19.4
117.5°	1.9	42.7	127.1	177.5	195.0	175.6	120.3	35.9	0.0	3.9	18.4
120°	1.9	40.7	121.3	168.8	182.4	166.9	114.5	34.0	0.0	3.9	17.5
122.5°	1.9	38.8	116.4	161.0	175.6	160.1	109.6	33.0	0.0	2.9	15.5
125°	1.9	36.9	109.6	152.3	165.9	150.4	100.9	32.0	0.0	1.9	13.6
127.5°	1.9	34.9	102.8	145.5	158.1	143.6	95.1	31.0	0.0	1.9	12.6
130°	1.9	34.0	94.1	136.8	149.4	134.8	88.3	31.0	0.0	1.9	11.6
132.5°	1.9	33.0	84.4	128.0	141.6	126.1	81.5	30.1	0.0	1.9	9.7
135°	1.9	32.0	74.7	119.3	131.9	117.4	75.7	29.1	0.0	1.9	8.7
137.5°	1.9	30.1	66.0	109.6	122.2	107.7	71.8	27.2	0.0	1.9	7.8
140°	1.9	28.1	59.2	101.9	112.5	98.9	66.0	25.2	0.0	1.0	5.8
142.5°	1.9	25.2	53.4	92.2	102.8	90.2	59.2	21.3	0.0	1.0	5.8
145°	1.9	22.3	48.5	80.5	93.1	80.5	55.3	19.4	0.0	1.0	4.9
147.5°	1.9	20.4	43.7	67.9	84.4	73.7	49.5	16.5	0.0	1.0	3.9
150°	1.9	18.4	37.8	57.2	74.7	65.0	45.6	14.6	0.0	0.0	2.9
152.5°	1.9	16.5	33.0	47.5	66.9	59.2	40.7	12.6	0.0	0.0	1.9
155°	2.9	15.5	28.1	41.7	58.2	51.4	34.0	10.7	0.0	0.0	1.9
157.5°	2.9	13.6	23.3	34.0	51.4	44.6	27.2	8.7	0.0	0.0	1.0
160°	2.9	12.6	19.4	26.2	42.7	36.9	22.3	6.8	0.0	0.0	1.0
162.5°	2.9	11.6	16.5	19.4	34.9	29.1	17.5	4.9	0.0	0.0	1.0
165°	2.9	9.7	14.6	13.6	27.2	22.3	13.6	2.9	0.0	0.0	0.0
167.5°	2.9	8.7	11.6	9.7	20.4	16.5	9.7	1.9	0.0	0.0	0.0
170°	2.9	6.8	9.7	6.8	5.8	10.7	5.8	1.0	0.0	0.0	0.0
172.5°	2.9	5.8	7.8	4.9	1.9	5.8	2.9	0.0	0.0	0.0	0.0
175°	2.9	4.9	4.9	2.9	1.0	1.9	0.0	0.0	0.0	0.0	0.0
177.5°	2.9	3.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2962.6	2962.6	2962.6	2962.6	2962.6	2962.6
2.5°	2881.1	2849.1	2820.0	2851.0	2873.3	2959.7
5°	2740.4	2706.5	2710.4	2738.5	2813.2	2970.3
7.5°	2594.9	2538.7	2552.2	2630.8	2741.4	2919.9
10°	2423.2	2371.8	2384.4	2502.8	2658.0	2891.8
12.5°	2270.0	2183.6	2257.3	2368.9	2561.0	2876.2
15°	2090.5	2022.6	2062.4	2227.3	2467.9	2804.5
17.5°	1896.5	1844.1	1891.6	2055.6	2353.4	2796.7
20°	1747.1	1674.3	1730.6	1911.0	2211.8	2715.2
22.5°	1579.3	1524.0	1583.2	1749.0	2067.2	2628.9
25°	1441.5	1383.3	1442.5	1607.4	1939.2	2527.0
27.5°	1307.7	1254.3	1307.7	1459.0	1812.1	2444.6
30°	1190.3	1138.9	1193.2	1338.7	1663.7	2321.4
32.5°	1080.7	1014.7	1084.5	1225.2	1532.7	2227.3
35°	967.2	917.7	970.1	1126.2	1387.2	2095.3
37.5°	873.1	821.6	883.7	1017.6	1264.0	1967.3
40°	783.8	738.2	787.7	930.3	1159.2	1811.1
42.5°	714.0	668.4	718.8	850.7	1053.5	1692.8
45°	646.1	612.1	652.9	763.4	946.8	1536.6
47.5°	596.6	567.5	601.4	699.4	857.5	1395.9
50°	553.9	533.5	557.8	635.4	765.4	1249.4
52.5°	516.1	495.7	523.8	585.9	692.6	1115.6
55°	487.0	468.5	489.9	539.4	619.9	989.5
57.5°	455.0	443.3	459.8	489.9	562.6	876.9
60°	431.7	419.1	436.5	460.8	497.6	763.4
62.5°	405.5	398.7	409.4	428.8	448.2	660.6
65°	382.2	372.5	386.1	392.9	390.9	572.3
67.5°	357.0	354.1	361.8	362.8	348.3	483.1
70°	330.8	328.9	338.6	332.7	302.7	400.6
72.5°	309.5	309.5	315.3	303.6	263.9	323.0
75°	286.2	288.1	293.0	279.4	222.1	254.2
77.5°	264.8	266.8	267.7	249.3	186.3	194.0
80°	240.6	239.6	249.3	226.0	151.3	138.7
82.5°	219.2	215.4	221.2	197.9	122.2	91.2
85°	195.0	196.0	199.8	172.7	98.0	55.3
87.5°	175.6	175.6	179.5	152.3	73.7	24.3
90°	152.3	150.4	156.2	129.0	55.3	1.9
92.5°	132.9	132.9	136.8	110.6	40.7	1.9
95°	113.5	114.5	117.4	91.2	31.0	2.9
97.5°	97.0	98.0	101.9	77.6	22.3	2.9
100°	82.5	83.4	85.4	62.1	17.5	1.9
102.5°	68.9	71.8	71.8	51.4	13.6	1.9
105°	58.2	62.1	60.1	41.7	12.6	1.9
107.5°	48.5	52.4	52.4	34.0	12.6	1.9
110°	39.8	45.6	44.6	29.1	9.7	1.9



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	34.0	38.8	35.9	25.2	9.7	1.9
115°	29.1	34.0	32.0	23.3	8.7	1.9
117.5°	26.2	29.1	29.1	22.3	8.7	1.9
120°	24.3	27.2	26.2	21.3	8.7	1.9
122.5°	22.3	24.3	24.3	19.4	7.8	1.9
125°	21.3	22.3	23.3	17.5	7.8	1.9
127.5°	20.4	22.3	22.3	16.5	6.8	1.9
130°	18.4	20.4	20.4	15.5	6.8	1.9
132.5°	16.5	18.4	18.4	14.6	6.8	1.9
135°	15.5	17.5	17.5	13.6	6.8	1.9
137.5°	14.6	15.5	15.5	12.6	6.8	1.9
140°	12.6	14.6	14.6	11.6	6.8	1.9
142.5°	11.6	13.6	13.6	10.7	5.8	1.9
145°	10.7	11.6	12.6	9.7	5.8	1.9
147.5°	8.7	10.7	11.6	8.7	5.8	1.9
150°	6.8	9.7	9.7	8.7	5.8	1.9
152.5°	4.9	8.7	8.7	7.8	4.9	1.9
155°	3.9	6.8	7.8	6.8	4.9	2.9
157.5°	2.9	5.8	6.8	6.8	4.9	2.9
160°	1.9	4.9	5.8	5.8	3.9	2.9
162.5°	1.0	3.9	4.9	5.8	3.9	2.9
165°	0.0	2.9	3.9	4.9	3.9	2.9
167.5°	0.0	1.9	2.9	3.9	2.9	2.9
170°	0.0	1.0	1.9	2.9	2.9	2.9
172.5°	0.0	0.0	1.0	1.9	1.9	2.9
175°	0.0	0.0	0.0	1.0	1.9	2.9
177.5°	0.0	0.0	0.0	1.0	1.9	2.9
180°	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)