

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: P895362

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895362
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-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

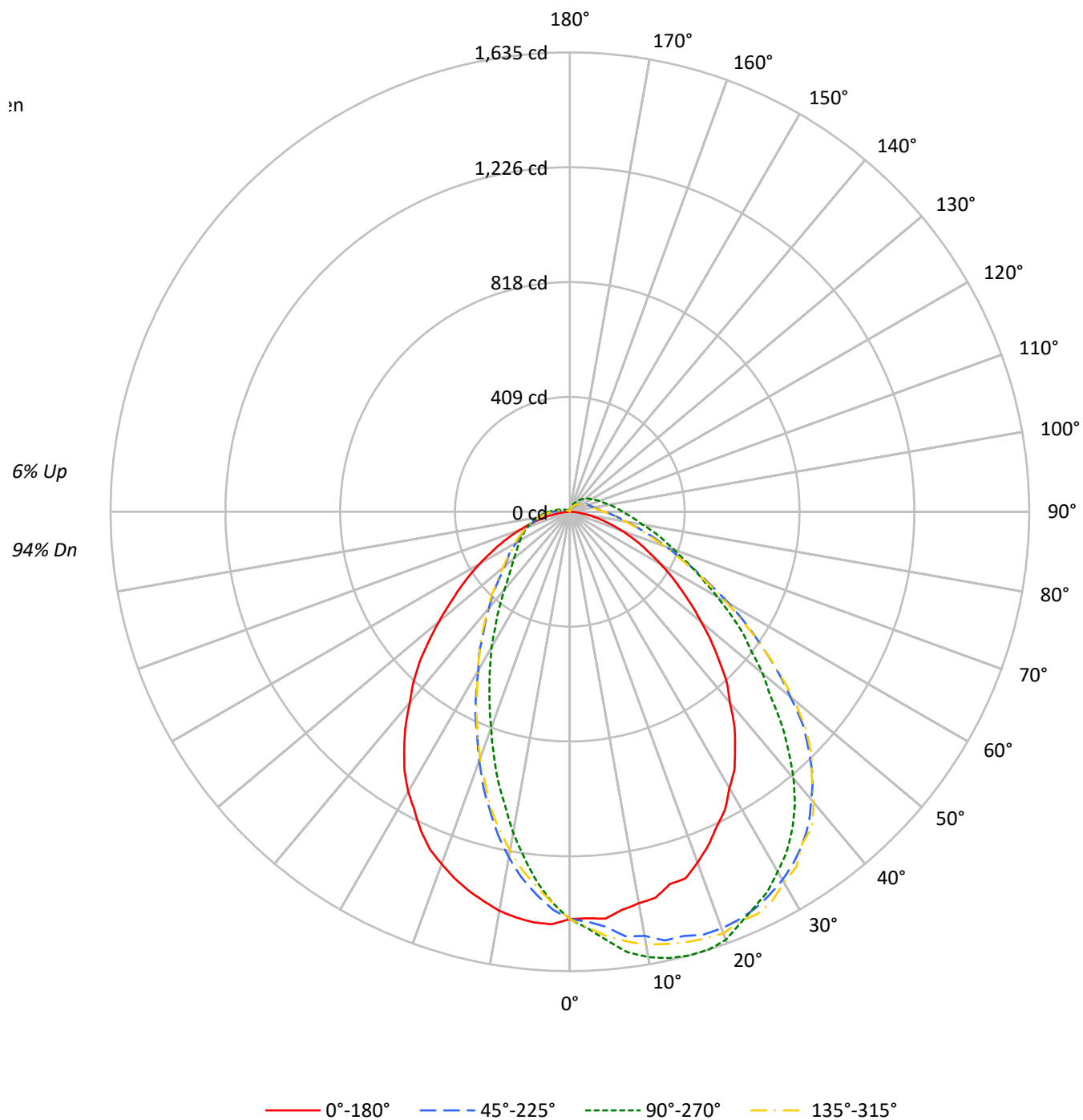
Lumens per Lamp: N/A
Luminaire Lumens: 3613.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-LOW-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°	7362	7362	7362	7362
5°	7399	7502	7470	6484
10°	7277	7662	7419	5526
15°	7185	7635	7307	4621
20°	7140	7484	7171	3780
25°	6879	7137	6974	3111
30°	6601	6820	6687	2570
35°	6288	6437	6305	2094
40°	5799	5888	5796	1717
45°	5317	5198	5344	1463
50°	4742	4536	4720	1322
55°	4193	3974	4164	1214
60°	3695	3390	3661	1148
65°	3255	2918	3179	1090
70°	2790	2557	2696	1042
75°	2306	2325	2243	1004
80°	1824	2093	1657	934
85°	1339	2021	1077	876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 7371 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	3.8
10°-20°	378.6	10.5
20°-30°	544.5	15.1
30°-40°	617.9	17.1
40°-50°	590.6	16.3
50°-60°	479.9	13.3
60°-70°	334.8	9.3
70°-80°	207.4	5.7
80°-90°	119.0	3.3
90°-100°	71.1	2.0
100°-110°	46.7	1.3
110°-120°	32.7	0.9
120°-130°	23.7	0.7
130°-140°	15.8	0.4
140°-150°	8.9	0.2
150°-160°	4.0	0.1
160°-170°	1.1	0.0
170°-180°	0.1	0.0
0°-30°	1059.3	29.3
0°-40°	1677.3	46.4
0°-60°	2747.7	76.1
0°-90°	3408.9	94.4
90°-120°	150.5	4.2
90°-150°	198.8	5.5
90°-180°	204.0	5.6
0°-180°	3613.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1450	1450	1450	1450	1450	
5°	1453	1532	1467	1324	1453	137
15°	1372	1635	1396	990	1372	390
25°	1236	1553	1254	677	1236	570
35°	1025	1380	1028	449	1025	639
45°	752	1064	756	300	752	580
55°	484	750	481	229	484	436
65°	280	488	273	182	280	278
75°	124	327	121	141	124	134
85°	27	221	22	96	27	30
90°	1	187	0	74	1	2
95°	1	163	0	56	1	1
105°	1	125	0	30	1	1
115°	1	100	0	17	1	1
125°	1	81	0	11	1	1
135°	1	65	0	8	1	1
145°	1	46	0	6	1	1
155°	1	28	0	3	1	1
165°	1	13	0	1	1	0
175°	1	0	0	0	1	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1449.6	1449.6	1449.6	1449.6	1449.6	1449.6	1449.6	1449.6	1449.6	1449.6	1449.6
2.5°	1448.2	1459.1	1460.0	1494.2	1484.2	1497.1	1480.9	1483.8	1469.5	1465.7	1416.4
5°	1453.4	1476.7	1482.8	1541.7	1532.2	1538.8	1516.5	1500.4	1467.2	1447.2	1367.5
7.5°	1428.7	1489.9	1524.1	1565.9	1581.6	1586.8	1541.7	1511.8	1456.7	1407.8	1314.3
10°	1414.9	1499.4	1532.7	1595.3	1609.1	1599.1	1564.0	1514.6	1442.5	1363.7	1248.8
12.5°	1407.4	1504.7	1562.6	1626.6	1627.1	1616.7	1575.4	1522.2	1419.2	1316.2	1179.5
15°	1372.2	1503.7	1563.0	1628.1	1635.2	1628.5	1586.3	1517.0	1395.5	1257.4	1099.8
17.5°	1368.4	1501.3	1578.2	1646.6	1634.7	1630.0	1592.9	1514.6	1367.0	1197.6	1024.8
20°	1328.6	1496.1	1578.2	1625.7	1621.9	1623.8	1597.2	1511.3	1334.3	1133.0	942.7
22.5°	1286.3	1489.9	1571.6	1607.7	1584.9	1619.5	1578.2	1502.3	1301.0	1065.6	861.0
25°	1236.5	1480.0	1558.8	1582.0	1553.1	1580.1	1579.7	1488.5	1253.6	993.0	796.5
27.5°	1196.1	1464.3	1537.9	1573.0	1523.6	1546.9	1560.2	1471.9	1197.6	921.3	720.5
30°	1135.8	1444.4	1512.7	1517.9	1479.0	1508.5	1523.6	1451.0	1150.6	840.1	651.2
32.5°	1089.8	1421.6	1481.9	1474.8	1435.8	1474.8	1499.4	1430.1	1094.6	768.9	602.3
35°	1025.3	1394.1	1443.4	1405.9	1380.3	1412.6	1441.5	1407.8	1028.1	693.0	539.7
37.5°	962.6	1369.9	1397.4	1350.9	1315.7	1351.8	1415.4	1366.1	961.2	632.7	493.2
40°	886.2	1314.3	1337.1	1274.0	1238.8	1292.0	1350.4	1330.0	885.7	570.1	448.1
42.5°	828.3	1273.0	1279.7	1193.3	1151.5	1208.0	1274.4	1278.7	824.5	513.6	408.2
45°	751.9	1215.1	1202.8	1107.8	1064.2	1115.0	1214.6	1226.0	755.7	464.7	369.3
47.5°	683.0	1150.6	1126.4	1015.3	966.4	1026.7	1137.3	1167.2	678.8	419.6	332.7
50°	611.4	1078.4	1024.8	928.9	896.1	926.1	1039.0	1088.4	608.5	375.0	304.7
52.5°	545.9	998.7	932.2	846.3	813.6	838.2	936.0	1010.1	538.7	337.5	280.0
55°	484.1	918.9	833.0	757.1	750.4	758.0	831.6	916.6	480.8	304.3	264.4
57.5°	429.1	822.1	743.8	687.8	675.9	682.1	732.9	820.2	424.8	271.0	241.6
60°	373.6	722.9	655.5	612.3	605.7	610.4	643.2	726.2	370.2	243.0	220.2
62.5°	323.2	623.2	563.4	547.3	542.5	542.5	556.3	632.2	319.0	214.5	204.1
65°	280.0	537.8	492.7	486.5	487.9	487.5	478.9	527.8	273.4	189.4	189.9
67.5°	236.4	447.1	422.0	429.6	435.3	432.9	414.8	439.1	230.7	166.6	177.0
70°	196.0	369.3	364.5	381.6	394.9	382.6	356.5	358.8	189.4	144.3	160.4
72.5°	158.1	298.6	320.4	344.1	356.9	343.2	307.1	296.7	152.4	123.9	145.2
75°	124.4	240.2	274.8	309.9	326.6	309.0	267.2	231.6	121.0	104.4	132.9
77.5°	94.9	190.3	235.0	275.8	291.9	276.7	232.6	180.8	88.8	87.8	119.6
80°	67.9	150.5	208.4	247.8	262.5	247.8	201.7	142.9	61.7	70.2	105.4
82.5°	44.6	116.3	181.3	225.5	241.6	223.6	175.1	110.1	39.4	57.0	94.9
85°	27.1	92.1	158.1	202.7	221.2	203.6	153.3	83.5	21.8	43.7	82.6
87.5°	11.9	71.2	141.0	187.0	203.6	187.5	136.7	65.5	9.0	34.2	70.7
90°	0.9	56.5	124.4	172.3	187.0	171.8	121.0	53.2	0.0	24.7	60.8
92.5°	0.9	48.4	113.9	159.5	176.1	159.0	109.2	43.7	0.0	18.0	51.3
95°	1.4	40.8	103.5	149.5	162.8	148.1	99.7	37.5	0.0	12.3	43.2
97.5°	1.4	37.0	94.9	139.5	154.3	138.6	91.1	33.7	0.0	9.0	35.1
100°	0.9	34.2	88.3	130.1	143.8	129.1	84.5	30.4	0.0	5.7	28.5
102.5°	0.9	31.8	82.6	122.0	132.9	120.6	78.8	28.5	0.0	4.7	23.3
105°	0.9	30.4	77.4	112.5	125.3	112.5	74.0	26.6	0.0	3.8	18.0
107.5°	0.9	28.5	73.6	107.3	117.7	106.3	70.2	25.2	0.0	3.8	14.7
110°	0.9	27.1	70.2	99.7	111.5	100.6	66.9	22.8	0.0	2.4	11.9

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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°	0.9	24.7	66.9	94.5	105.8	94.9	64.1	20.9	0.0	2.4	10.4
115°	0.9	22.3	64.1	91.1	99.7	90.2	61.2	18.5	0.0	1.9	9.5
117.5°	0.9	20.9	62.2	86.9	95.4	85.9	58.9	17.6	0.0	1.9	9.0
120°	0.9	19.9	59.3	82.6	89.2	81.6	56.0	16.6	0.0	1.9	8.5
122.5°	0.9	19.0	57.0	78.8	85.9	78.3	53.6	16.1	0.0	1.4	7.6
125°	0.9	18.0	53.6	74.5	81.2	73.6	49.4	15.7	0.0	0.9	6.6
127.5°	0.9	17.1	50.3	71.2	77.4	70.2	46.5	15.2	0.0	0.9	6.2
130°	0.9	16.6	46.0	66.9	73.1	66.0	43.2	15.2	0.0	0.9	5.7
132.5°	0.9	16.1	41.3	62.7	69.3	61.7	39.9	14.7	0.0	0.9	4.7
135°	0.9	15.7	36.5	58.4	64.6	57.4	37.0	14.2	0.0	0.9	4.3
137.5°	0.9	14.7	32.3	53.6	59.8	52.7	35.1	13.3	0.0	0.9	3.8
140°	0.9	13.8	29.0	49.8	55.1	48.4	32.3	12.3	0.0	0.5	2.8
142.5°	0.9	12.3	26.1	45.1	50.3	44.1	29.0	10.4	0.0	0.5	2.8
145°	0.9	10.9	23.7	39.4	45.6	39.4	27.1	9.5	0.0	0.5	2.4
147.5°	0.9	10.0	21.4	33.2	41.3	36.1	24.2	8.1	0.0	0.5	1.9
150°	0.9	9.0	18.5	28.0	36.5	31.8	22.3	7.1	0.0	0.0	1.4
152.5°	0.9	8.1	16.1	23.3	32.8	29.0	19.9	6.2	0.0	0.0	0.9
155°	1.4	7.6	13.8	20.4	28.5	25.2	16.6	5.2	0.0	0.0	0.9
157.5°	1.4	6.6	11.4	16.6	25.2	21.8	13.3	4.3	0.0	0.0	0.5
160°	1.4	6.2	9.5	12.8	20.9	18.0	10.9	3.3	0.0	0.0	0.5
162.5°	1.4	5.7	8.1	9.5	17.1	14.2	8.5	2.4	0.0	0.0	0.5
165°	1.4	4.7	7.1	6.6	13.3	10.9	6.6	1.4	0.0	0.0	0.0
167.5°	1.4	4.3	5.7	4.7	10.0	8.1	4.7	0.9	0.0	0.0	0.0
170°	1.4	3.3	4.7	3.3	2.8	5.2	2.8	0.5	0.0	0.0	0.0
172.5°	1.4	2.8	3.8	2.4	0.9	2.8	1.4	0.0	0.0	0.0	0.0
175°	1.4	2.4	2.4	1.4	0.5	0.9	0.0	0.0	0.0	0.0	0.0
177.5°	1.4	1.9	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1449.6	1449.6	1449.6	1449.6	1449.6	1449.6
2.5°	1409.7	1394.1	1379.8	1395.0	1405.9	1448.2
5°	1340.9	1324.3	1326.2	1340.0	1376.5	1453.4
7.5°	1269.7	1242.2	1248.8	1287.3	1341.4	1428.7
10°	1185.7	1160.5	1166.7	1224.6	1300.6	1414.9
12.5°	1110.7	1068.4	1104.5	1159.1	1253.1	1407.4
15°	1022.9	989.7	1009.1	1089.8	1207.5	1372.2
17.5°	928.0	902.3	925.6	1005.8	1151.5	1368.4
20°	854.9	819.3	846.8	935.1	1082.2	1328.6
22.5°	772.7	745.7	774.6	855.8	1011.5	1286.3
25°	705.3	676.9	705.8	786.5	948.8	1236.5
27.5°	639.8	613.7	639.8	713.9	886.7	1196.1
30°	582.4	557.2	583.8	655.0	814.0	1135.8
32.5°	528.8	496.5	530.7	599.5	750.0	1089.8
35°	473.2	449.0	474.7	551.1	678.8	1025.3
37.5°	427.2	402.0	432.4	497.9	618.5	962.6
40°	383.5	361.2	385.4	455.2	567.2	886.2
42.5°	349.3	327.0	351.7	416.3	515.5	828.3
45°	316.1	299.5	319.4	373.6	463.3	751.9
47.5°	291.9	277.7	294.3	342.2	419.6	683.0
50°	271.0	261.1	272.9	310.9	374.5	611.4
52.5°	252.5	242.5	256.3	286.7	338.9	545.9
55°	238.3	229.3	239.7	263.9	303.3	484.1
57.5°	222.6	216.9	225.0	239.7	275.3	429.1
60°	211.2	205.1	213.6	225.5	243.5	373.6
62.5°	198.4	195.1	200.3	209.8	219.3	323.2
65°	187.0	182.3	188.9	192.2	191.3	280.0
67.5°	174.7	173.2	177.0	177.5	170.4	236.4
70°	161.9	160.9	165.7	162.8	148.1	196.0
72.5°	151.4	151.4	154.3	148.6	129.1	158.1
75°	140.0	141.0	143.3	136.7	108.7	124.4
77.5°	129.6	130.5	131.0	122.0	91.1	94.9
80°	117.7	117.2	122.0	110.6	74.0	67.9
82.5°	107.3	105.4	108.2	96.8	59.8	44.6
85°	95.4	95.9	97.8	84.5	47.9	27.1
87.5°	85.9	85.9	87.8	74.5	36.1	11.9
90°	74.5	73.6	76.4	63.1	27.1	0.9
92.5°	65.0	65.0	66.9	54.1	19.9	0.9
95°	55.5	56.0	57.4	44.6	15.2	1.4
97.5°	47.5	47.9	49.8	38.0	10.9	1.4
100°	40.3	40.8	41.8	30.4	8.5	0.9
102.5°	33.7	35.1	35.1	25.2	6.6	0.9
105°	28.5	30.4	29.4	20.4	6.2	0.9
107.5°	23.7	25.6	25.6	16.6	6.2	0.9
110°	19.5	22.3	21.8	14.2	4.7	0.9

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	16.6	19.0	17.6	12.3	4.7	0.9
115°	14.2	16.6	15.7	11.4	4.3	0.9
117.5°	12.8	14.2	14.2	10.9	4.3	0.9
120°	11.9	13.3	12.8	10.4	4.3	0.9
122.5°	10.9	11.9	11.9	9.5	3.8	0.9
125°	10.4	10.9	11.4	8.5	3.8	0.9
127.5°	10.0	10.9	10.9	8.1	3.3	0.9
130°	9.0	10.0	10.0	7.6	3.3	0.9
132.5°	8.1	9.0	9.0	7.1	3.3	0.9
135°	7.6	8.5	8.5	6.6	3.3	0.9
137.5°	7.1	7.6	7.6	6.2	3.3	0.9
140°	6.2	7.1	7.1	5.7	3.3	0.9
142.5°	5.7	6.6	6.6	5.2	2.8	0.9
145°	5.2	5.7	6.2	4.7	2.8	0.9
147.5°	4.3	5.2	5.7	4.3	2.8	0.9
150°	3.3	4.7	4.7	4.3	2.8	0.9
152.5°	2.4	4.3	4.3	3.8	2.4	0.9
155°	1.9	3.3	3.8	3.3	2.4	1.4
157.5°	1.4	2.8	3.3	3.3	2.4	1.4
160°	0.9	2.4	2.8	2.8	1.9	1.4
162.5°	0.5	1.9	2.4	2.8	1.9	1.4
165°	0.0	1.4	1.9	2.4	1.9	1.4
167.5°	0.0	0.9	1.4	1.9	1.4	1.4
170°	0.0	0.5	0.9	1.4	1.4	1.4
172.5°	0.0	0.0	0.5	0.9	0.9	1.4
175°	0.0	0.0	0.0	0.5	0.9	1.4
177.5°	0.0	0.0	0.0	0.5	0.9	1.4
180°	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)