

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: P895363

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895363
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 5000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

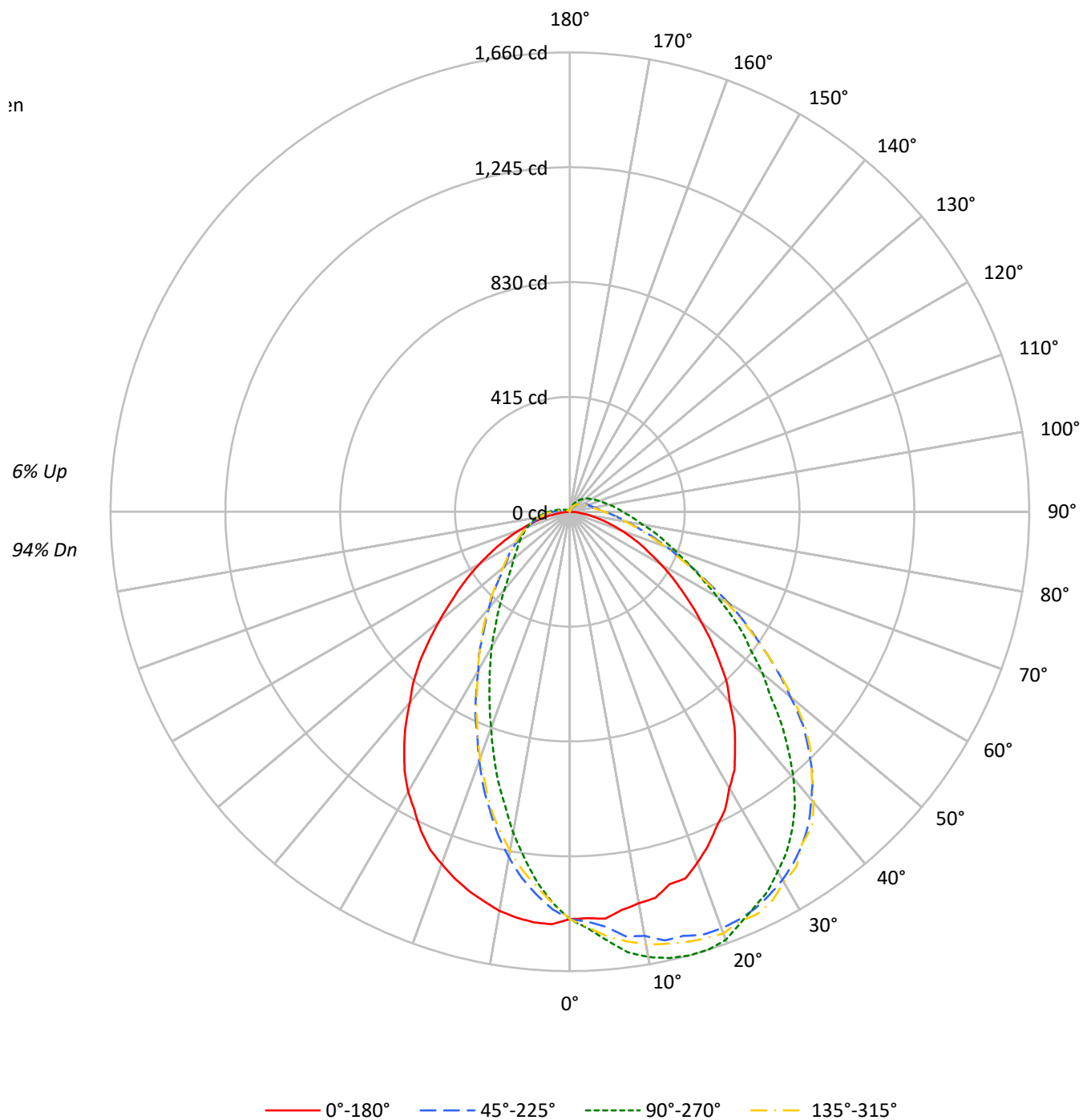
Lumens per Lamp: N/A
Luminaire Lumens: 3668.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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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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
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108		102	102	102		97
1	107	103	98	94	104	100	96	92	95	91	88		90	87	85		85
2	98	90	83	78	95	88	82	76	83	78	74		79	75	71		75
3	90	80	72	65	87	78	70	64	74	68	63		70	65	61		67
4	83	71	63	56	80	69	61	55	66	59	54		63	57	53		60
5	76	64	55	49	74	62	54	48	60	53	47		57	51	46		55
6	71	58	49	43	68	56	48	42	54	47	42		52	46	41		50
7	66	53	44	38	64	51	43	38	49	42	37		48	41	36		46
8	61	48	40	34	59	47	39	34	45	38	33		44	37	33		42
9	57	44	36	31	56	43	36	31	42	35	30		40	34	30		39
10	54	41	33	28	52	40	33	28	39	32	28		38	31	27		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7474	7474	7474	7474
5°	7512	7617	7583	6583
10°	7388	7779	7531	5610
15°	7294	7751	7418	4691
20°	7248	7598	7280	3838
25°	6983	7245	7080	3158
30°	6702	6924	6789	2609
35°	6384	6535	6401	2126
40°	5887	5978	5884	1743
45°	5398	5277	5425	1485
50°	4814	4606	4792	1341
55°	4257	4035	4227	1232
60°	3750	3441	3717	1165
65°	3305	2963	3228	1107
70°	2833	2596	2738	1058
75°	2341	2360	2278	1019
80°	1851	2124	1681	949
85°	1359	2052	1097	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 7484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.8
10°-20°	384.3	10.5
20°-30°	552.8	15.1
30°-40°	627.4	17.1
40°-50°	599.6	16.3
50°-60°	487.2	13.3
60°-70°	339.9	9.3
70°-80°	210.6	5.7
80°-90°	120.8	3.3
90°-100°	72.2	2.0
100°-110°	47.4	1.3
110°-120°	33.2	0.9
120°-130°	24.1	0.7
130°-140°	16.0	0.4
140°-150°	9.0	0.2
150°-160°	4.0	0.1
160°-170°	1.2	0.0
170°-180°	0.1	0.0
0°-30°	1075.4	29.3
0°-40°	1702.8	46.4
0°-60°	2789.5	76.0
0°-90°	3460.8	94.4
90°-120°	152.8	4.2
90°-150°	201.9	5.5
90°-180°	207.0	5.6
0°-180°	3668.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1472	1472	1472	1472	1472	
5°	1476	1556	1490	1344	1476	139
15°	1393	1660	1417	1005	1393	396
25°	1255	1577	1273	687	1255	579
35°	1041	1401	1044	456	1041	649
45°	763	1080	767	304	763	589
55°	492	762	488	233	492	442
65°	284	495	278	185	284	282
75°	126	332	123	143	126	136
85°	28	225	22	97	28	31
90°	1	190	0	75	1	2
95°	1	165	0	57	1	1
105°	1	127	0	31	1	1
115°	1	101	0	17	1	1
125°	1	82	0	11	1	1
135°	1	66	0	9	1	1
145°	1	46	0	6	1	1
155°	1	29	0	3	1	1
165°	1	14	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°	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7
2.5°	1470.2	1481.3	1482.3	1517.0	1506.8	1519.9	1503.5	1506.4	1491.9	1488.0	1437.9
5°	1475.5	1499.1	1505.4	1565.1	1555.5	1562.3	1539.6	1523.2	1489.5	1469.3	1388.3
7.5°	1450.5	1512.6	1547.3	1589.7	1605.6	1610.9	1565.1	1534.8	1478.9	1429.3	1334.3
10°	1436.5	1522.3	1556.0	1619.6	1633.6	1623.5	1587.8	1537.7	1464.4	1384.4	1267.8
12.5°	1428.8	1527.6	1586.4	1651.4	1651.9	1641.3	1599.4	1545.4	1440.8	1336.3	1197.5
15°	1393.1	1526.6	1586.8	1652.9	1660.1	1653.3	1610.4	1540.1	1416.7	1276.5	1116.5
17.5°	1389.3	1524.2	1602.3	1671.6	1659.6	1654.8	1617.2	1537.7	1387.8	1215.8	1040.4
20°	1348.8	1518.9	1602.3	1650.4	1646.6	1648.5	1621.5	1534.3	1354.6	1150.2	957.0
22.5°	1305.9	1512.6	1595.5	1632.1	1609.0	1644.2	1602.3	1525.2	1320.8	1081.8	874.1
25°	1255.3	1502.5	1582.5	1606.1	1576.7	1604.2	1603.7	1511.2	1272.6	1008.1	808.6
27.5°	1214.3	1486.6	1561.3	1597.0	1546.8	1570.4	1583.9	1494.3	1215.8	935.3	731.5
30°	1153.1	1466.4	1535.8	1541.1	1501.5	1531.4	1546.8	1473.1	1168.1	852.9	661.1
32.5°	1106.4	1443.2	1504.4	1497.2	1457.7	1497.2	1522.3	1451.9	1111.2	780.6	611.5
35°	1040.9	1415.3	1465.4	1427.3	1401.3	1434.1	1463.5	1429.3	1043.8	703.5	547.9
37.5°	977.3	1390.7	1418.7	1371.4	1335.8	1372.4	1437.0	1386.9	975.8	642.3	500.7
40°	899.7	1334.3	1357.5	1293.4	1257.7	1311.7	1371.0	1350.2	899.2	578.7	454.9
42.5°	840.9	1292.4	1299.2	1211.4	1169.0	1226.4	1293.8	1298.2	837.0	521.4	414.4
45°	763.3	1233.6	1221.1	1124.7	1080.4	1131.9	1233.1	1244.7	767.2	471.8	374.9
47.5°	693.4	1168.1	1143.5	1030.7	981.1	1042.3	1154.6	1184.9	689.1	426.0	337.8
50°	620.7	1094.8	1040.4	943.0	909.8	940.1	1054.8	1105.0	617.8	380.7	309.4
52.5°	554.2	1013.9	946.4	859.2	825.9	851.0	950.3	1025.4	546.9	342.6	284.3
55°	491.5	932.9	845.7	768.6	761.9	769.6	844.3	930.5	488.1	308.9	268.4
57.5°	435.6	834.6	755.1	698.2	686.2	692.5	744.0	832.7	431.3	275.2	245.3
60°	379.2	733.9	665.5	621.6	614.9	619.7	652.9	737.3	375.9	246.7	223.6
62.5°	328.2	632.7	572.0	555.6	550.8	550.8	564.8	641.9	323.8	217.8	207.2
65°	284.3	546.0	500.2	493.9	495.4	494.9	486.2	535.9	277.6	192.3	192.8
67.5°	240.0	453.9	428.4	436.1	441.9	439.5	421.2	445.7	234.2	169.1	179.7
70°	199.0	374.9	370.1	387.4	400.9	388.4	361.9	364.3	192.3	146.5	162.9
72.5°	160.5	303.1	325.3	349.4	362.4	348.4	311.8	301.2	154.7	125.8	147.5
75°	126.3	243.8	279.0	314.7	331.5	313.7	271.3	235.2	122.9	106.0	134.9
77.5°	96.4	193.2	238.5	280.0	296.4	280.9	236.1	183.6	90.1	89.1	121.4
80°	68.9	152.8	211.5	251.5	266.5	251.5	204.8	145.0	62.6	71.3	107.0
82.5°	45.3	118.1	184.1	228.9	245.3	227.0	177.8	111.8	40.0	57.8	96.4
85°	27.5	93.5	160.5	205.8	224.6	206.7	155.6	84.8	22.2	44.3	83.8
87.5°	12.0	72.3	143.1	189.9	206.7	190.3	138.8	66.5	9.2	34.7	71.8
90°	1.0	57.3	126.3	174.9	189.9	174.4	122.9	54.0	0.0	25.1	61.7
92.5°	1.0	49.2	115.7	161.9	178.8	161.4	110.8	44.3	0.0	18.3	52.0
95°	1.4	41.4	105.0	151.8	165.3	150.3	101.2	38.1	0.0	12.5	43.9
97.5°	1.4	37.6	96.4	141.7	156.6	140.7	92.5	34.2	0.0	9.2	35.7
100°	1.0	34.7	89.6	132.0	146.0	131.1	85.8	30.8	0.0	5.8	28.9
102.5°	1.0	32.3	83.8	123.8	134.9	122.4	80.0	28.9	0.0	4.8	23.6
105°	1.0	30.8	78.5	114.2	127.2	114.2	75.2	27.0	0.0	3.9	18.3
107.5°	1.0	28.9	74.7	108.9	119.5	107.9	71.3	25.5	0.0	3.9	14.9
110°	1.0	27.5	71.3	101.2	113.2	102.2	67.9	23.1	0.0	2.4	12.0

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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-LOW-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1.0	25.1	67.9	95.9	107.5	96.4	65.1	21.2	0.0	2.4	10.6
115°	1.0	22.6	65.1	92.5	101.2	91.6	62.2	18.8	0.0	1.9	9.6
117.5°	1.0	21.2	63.1	88.2	96.9	87.2	59.8	17.8	0.0	1.9	9.2
120°	1.0	20.2	60.2	83.8	90.6	82.9	56.9	16.9	0.0	1.9	8.7
122.5°	1.0	19.3	57.8	80.0	87.2	79.5	54.5	16.4	0.0	1.4	7.7
125°	1.0	18.3	54.5	75.7	82.4	74.7	50.1	15.9	0.0	1.0	6.7
127.5°	1.0	17.3	51.1	72.3	78.5	71.3	47.2	15.4	0.0	1.0	6.3
130°	1.0	16.9	46.7	67.9	74.2	67.0	43.9	15.4	0.0	1.0	5.8
132.5°	1.0	16.4	41.9	63.6	70.4	62.6	40.5	14.9	0.0	1.0	4.8
135°	1.0	15.9	37.1	59.3	65.5	58.3	37.6	14.5	0.0	1.0	4.3
137.5°	1.0	14.9	32.8	54.5	60.7	53.5	35.7	13.5	0.0	1.0	3.9
140°	1.0	14.0	29.4	50.6	55.9	49.2	32.8	12.5	0.0	0.5	2.9
142.5°	1.0	12.5	26.5	45.8	51.1	44.8	29.4	10.6	0.0	0.5	2.9
145°	1.0	11.1	24.1	40.0	46.3	40.0	27.5	9.6	0.0	0.5	2.4
147.5°	1.0	10.1	21.7	33.7	41.9	36.6	24.6	8.2	0.0	0.5	1.9
150°	1.0	9.2	18.8	28.4	37.1	32.3	22.6	7.2	0.0	0.0	1.4
152.5°	1.0	8.2	16.4	23.6	33.2	29.4	20.2	6.3	0.0	0.0	1.0
155°	1.4	7.7	14.0	20.7	28.9	25.5	16.9	5.3	0.0	0.0	1.0
157.5°	1.4	6.7	11.6	16.9	25.5	22.2	13.5	4.3	0.0	0.0	0.5
160°	1.4	6.3	9.6	13.0	21.2	18.3	11.1	3.4	0.0	0.0	0.5
162.5°	1.4	5.8	8.2	9.6	17.3	14.5	8.7	2.4	0.0	0.0	0.5
165°	1.4	4.8	7.2	6.7	13.5	11.1	6.7	1.4	0.0	0.0	0.0
167.5°	1.4	4.3	5.8	4.8	10.1	8.2	4.8	1.0	0.0	0.0	0.0
170°	1.4	3.4	4.8	3.4	2.9	5.3	2.9	0.5	0.0	0.0	0.0
172.5°	1.4	2.9	3.9	2.4	1.0	2.9	1.4	0.0	0.0	0.0	0.0
175°	1.4	2.4	2.4	1.4	0.5	1.0	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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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-LOW-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7
2.5°	1431.2	1415.3	1400.8	1416.2	1427.3	1470.2
5°	1361.3	1344.4	1346.4	1360.3	1397.5	1475.5
7.5°	1289.0	1261.1	1267.8	1306.9	1361.8	1450.5
10°	1203.7	1178.2	1184.5	1243.3	1320.4	1436.5
12.5°	1127.6	1084.7	1121.3	1176.8	1272.2	1428.8
15°	1038.5	1004.7	1024.5	1106.4	1225.9	1393.1
17.5°	942.1	916.1	939.7	1021.1	1169.0	1389.3
20°	867.9	831.7	859.7	949.3	1098.7	1348.8
22.5°	784.5	757.0	786.4	868.8	1026.9	1305.9
25°	716.1	687.2	716.6	798.5	963.3	1255.3
27.5°	649.6	623.1	649.6	724.7	900.2	1214.3
30°	591.3	565.7	592.7	665.0	826.4	1153.1
32.5°	536.8	504.0	538.7	608.6	761.4	1106.4
35°	480.4	455.9	481.9	559.5	689.1	1040.9
37.5°	433.7	408.2	439.0	505.5	627.9	977.3
40°	389.4	366.7	391.3	462.1	575.8	899.7
42.5°	354.7	332.0	357.1	422.6	523.3	840.9
45°	320.9	304.1	324.3	379.2	470.3	763.3
47.5°	296.4	281.9	298.8	347.4	426.0	693.4
50°	275.2	265.0	277.1	315.6	380.2	620.7
52.5°	256.4	246.2	260.2	291.1	344.1	554.2
55°	241.9	232.7	243.3	267.9	307.9	491.5
57.5°	226.0	220.2	228.4	243.3	279.5	435.6
60°	214.4	208.2	216.8	228.9	247.2	379.2
62.5°	201.4	198.1	203.4	213.0	222.6	328.2
65°	189.9	185.0	191.8	195.2	194.2	284.3
67.5°	177.3	175.9	179.7	180.2	173.0	240.0
70°	164.3	163.4	168.2	165.3	150.3	199.0
72.5°	153.7	153.7	156.6	150.8	131.1	160.5
75°	142.2	143.1	145.5	138.8	110.4	126.3
77.5°	131.6	132.5	133.0	123.8	92.5	96.4
80°	119.5	119.0	123.8	112.3	75.2	68.9
82.5°	108.9	107.0	109.9	98.3	60.7	45.3
85°	96.9	97.3	99.3	85.8	48.7	27.5
87.5°	87.2	87.2	89.1	75.7	36.6	12.0
90°	75.7	74.7	77.6	64.1	27.5	1.0
92.5°	66.0	66.0	67.9	54.9	20.2	1.0
95°	56.4	56.9	58.3	45.3	15.4	1.4
97.5°	48.2	48.7	50.6	38.6	11.1	1.4
100°	41.0	41.4	42.4	30.8	8.7	1.0
102.5°	34.2	35.7	35.7	25.5	6.7	1.0
105°	28.9	30.8	29.9	20.7	6.3	1.0
107.5°	24.1	26.0	26.0	16.9	6.3	1.0
110°	19.8	22.6	22.2	14.5	4.8	1.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	16.9	19.3	17.8	12.5	4.8	1.0
115°	14.5	16.9	15.9	11.6	4.3	1.0
117.5°	13.0	14.5	14.5	11.1	4.3	1.0
120°	12.0	13.5	13.0	10.6	4.3	1.0
122.5°	11.1	12.0	12.0	9.6	3.9	1.0
125°	10.6	11.1	11.6	8.7	3.9	1.0
127.5°	10.1	11.1	11.1	8.2	3.4	1.0
130°	9.2	10.1	10.1	7.7	3.4	1.0
132.5°	8.2	9.2	9.2	7.2	3.4	1.0
135°	7.7	8.7	8.7	6.7	3.4	1.0
137.5°	7.2	7.7	7.7	6.3	3.4	1.0
140°	6.3	7.2	7.2	5.8	3.4	1.0
142.5°	5.8	6.7	6.7	5.3	2.9	1.0
145°	5.3	5.8	6.3	4.8	2.9	1.0
147.5°	4.3	5.3	5.8	4.3	2.9	1.0
150°	3.4	4.8	4.8	4.3	2.9	1.0
152.5°	2.4	4.3	4.3	3.9	2.4	1.0
155°	1.9	3.4	3.9	3.4	2.4	1.4
157.5°	1.4	2.9	3.4	3.4	2.4	1.4
160°	1.0	2.4	2.9	2.9	1.9	1.4
162.5°	0.5	1.9	2.4	2.9	1.9	1.4
165°	0.0	1.4	1.9	2.4	1.9	1.4
167.5°	0.0	1.0	1.4	1.9	1.4	1.4
170°	0.0	0.5	1.0	1.4	1.4	1.4
172.5°	0.0	0.0	0.5	1.0	1.0	1.4
175°	0.0	0.0	0.0	0.5	1.0	1.4
177.5°	0.0	0.0	0.0	0.5	1.0	1.4
180°	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)