

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: P895361

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895361
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-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 3500K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

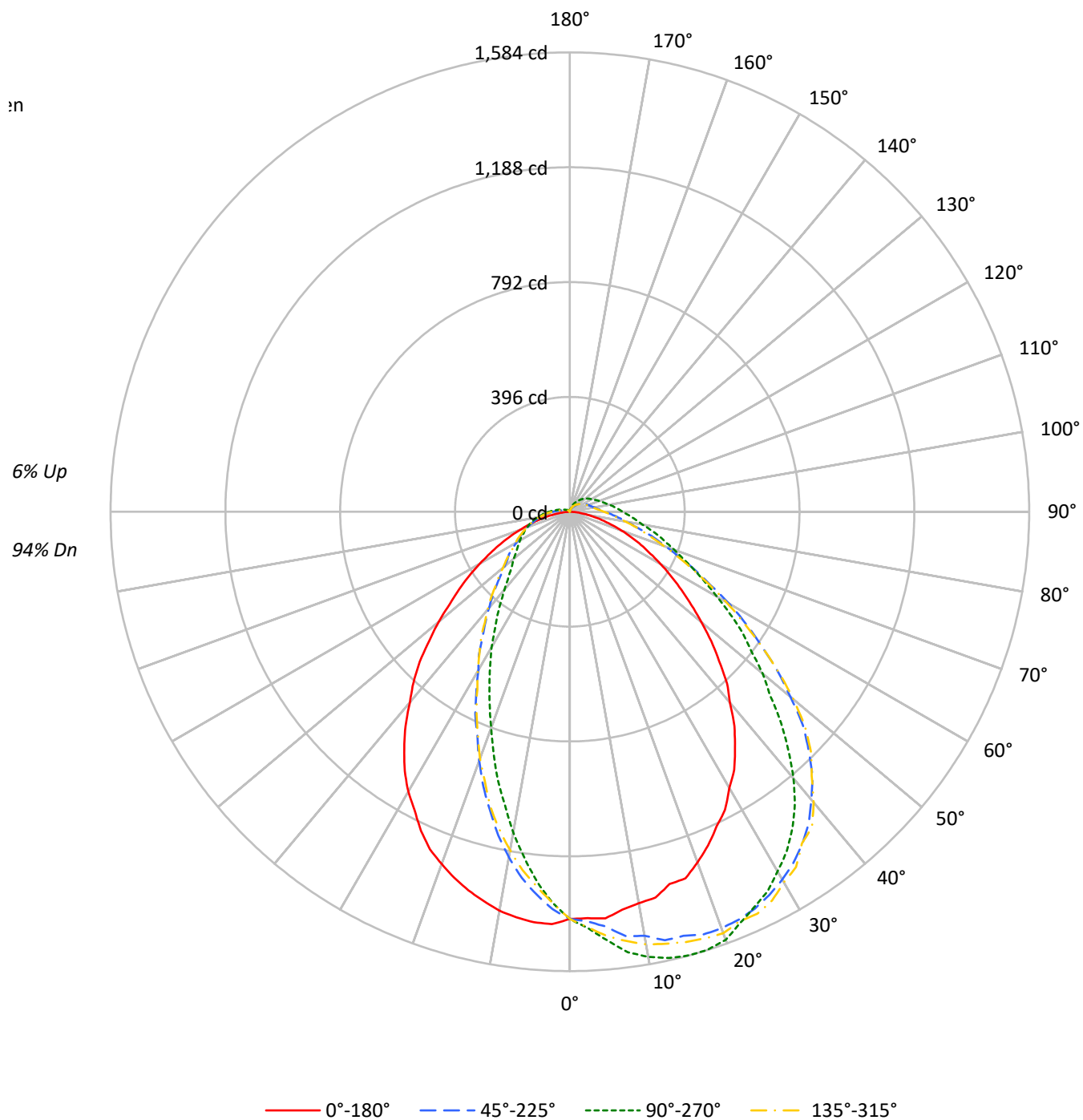
Lumens per Lamp: N/A
Luminaire Lumens: 3499.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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	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°	7130	7130	7130	7130
5°	7166	7265	7234	6280
10°	7047	7420	7185	5352
15°	6958	7394	7076	4475
20°	6914	7248	6944	3661
25°	6662	6912	6754	3012
30°	6393	6605	6476	2489
35°	6089	6233	6106	2028
40°	5616	5703	5613	1663
45°	5149	5033	5175	1417
50°	4592	4393	4571	1280
55°	4061	3849	4033	1176
60°	3578	3282	3545	1111
65°	3153	2826	3079	1056
70°	2702	2477	2611	1009
75°	2232	2252	2173	972
80°	1765	2026	1606	905
85°	1295	1957	1043	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 7139 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.8
10°-20°	366.6	10.5
20°-30°	527.4	15.1
30°-40°	598.4	17.1
40°-50°	571.9	16.3
50°-60°	464.7	13.3
60°-70°	324.3	9.3
70°-80°	200.9	5.7
80°-90°	115.2	3.3
90°-100°	68.9	2.0
100°-110°	45.2	1.3
110°-120°	31.7	0.9
120°-130°	23.0	0.7
130°-140°	15.3	0.4
140°-150°	8.6	0.2
150°-160°	3.8	0.1
160°-170°	1.1	0.0
170°-180°	0.1	0.0
0°-30°	1025.9	29.3
0°-40°	1624.3	46.4
0°-60°	2661.0	76.1
0°-90°	3301.4	94.4
90°-120°	145.8	4.2
90°-150°	192.6	5.5
90°-180°	198.0	5.7
0°-180°	3499.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1404	1404	1404	1404	1404	
5°	1408	1484	1421	1282	1408	133
15°	1329	1584	1352	958	1329	378
25°	1198	1504	1214	656	1198	552
35°	993	1337	996	435	993	619
45°	728	1031	732	290	728	562
55°	469	727	466	222	469	422
65°	271	472	265	176	271	269
75°	120	316	117	136	120	130
85°	26	214	21	93	26	29
90°	1	181	0	71	1	2
95°	1	158	0	54	1	1
105°	1	121	0	29	1	1
115°	1	96	0	16	1	1
125°	1	79	0	11	1	1
135°	1	62	0	8	1	1
145°	1	44	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°	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9
2.5°	1402.5	1413.1	1414.0	1447.1	1437.4	1449.8	1434.2	1437.0	1423.2	1419.5	1371.7
5°	1407.5	1430.1	1436.0	1493.0	1483.8	1490.3	1468.7	1453.0	1420.9	1401.6	1324.3
7.5°	1383.6	1442.9	1476.0	1516.5	1531.6	1536.7	1493.0	1464.1	1410.8	1363.4	1272.8
10°	1370.3	1452.1	1484.3	1545.0	1558.3	1548.7	1514.6	1466.8	1397.0	1320.7	1209.4
12.5°	1362.9	1457.2	1513.3	1575.3	1575.8	1565.7	1525.7	1474.2	1374.4	1274.7	1142.3
15°	1328.9	1456.3	1513.7	1576.7	1583.6	1577.2	1536.2	1469.1	1351.5	1217.7	1065.1
17.5°	1325.3	1454.0	1528.4	1594.6	1583.1	1578.5	1542.7	1466.8	1323.9	1159.8	992.4
20°	1286.6	1448.9	1528.4	1574.4	1570.7	1572.6	1546.8	1463.6	1292.2	1097.3	912.9
22.5°	1245.7	1442.9	1522.0	1556.9	1534.9	1568.4	1528.4	1454.9	1260.0	1032.0	833.9
25°	1197.5	1433.3	1509.6	1532.1	1504.1	1530.3	1529.8	1441.6	1214.0	961.6	771.3
27.5°	1158.4	1418.1	1489.4	1523.4	1475.6	1498.1	1511.0	1425.5	1159.8	892.2	697.8
30°	1100.0	1398.8	1465.0	1470.1	1432.4	1460.9	1475.6	1405.2	1114.3	813.6	630.7
32.5°	1055.4	1376.7	1435.1	1428.2	1390.5	1428.2	1452.1	1385.0	1060.0	744.7	583.3
35°	992.9	1350.1	1397.9	1361.6	1336.7	1368.0	1396.0	1363.4	995.7	671.1	522.7
37.5°	932.2	1326.6	1353.3	1308.2	1274.2	1309.2	1370.8	1323.0	930.8	612.8	477.6
40°	858.2	1272.8	1294.9	1233.8	1199.8	1251.2	1307.8	1288.0	857.8	552.1	433.9
42.5°	802.1	1232.9	1239.3	1155.6	1115.2	1169.9	1234.2	1238.4	798.5	497.4	395.3
45°	728.1	1176.8	1164.8	1072.9	1030.6	1079.8	1176.3	1187.3	731.8	450.0	357.6
47.5°	661.5	1114.3	1090.8	983.3	935.9	994.3	1101.4	1130.3	657.3	406.4	322.2
50°	592.1	1044.4	992.4	899.6	867.9	896.8	1006.2	1054.0	589.3	363.1	295.1
52.5°	528.6	967.2	902.8	819.6	787.9	811.8	906.5	978.2	521.7	326.8	271.2
55°	468.9	889.9	806.7	733.2	726.8	734.1	805.4	887.6	465.7	294.7	256.0
57.5°	415.5	796.2	720.3	666.1	654.6	660.6	709.7	794.3	411.4	262.5	234.0
60°	361.8	700.1	634.8	593.0	586.5	591.1	622.9	703.3	358.5	235.4	213.3
62.5°	313.0	603.6	545.6	530.0	525.4	525.4	538.7	612.3	308.9	207.8	197.7
65°	271.2	520.8	477.1	471.2	472.5	472.1	463.8	511.2	264.8	183.4	183.9
67.5°	228.9	433.0	408.7	416.0	421.5	419.2	401.8	425.2	223.4	161.3	171.5
70°	189.8	357.6	353.0	369.6	382.5	370.5	345.2	347.5	183.4	139.7	155.4
72.5°	153.1	289.1	310.3	333.3	345.7	332.3	297.4	287.3	147.6	120.0	140.7
75°	120.4	232.6	266.2	300.2	316.3	299.3	258.8	224.3	117.2	101.1	128.7
77.5°	91.9	184.3	227.5	267.1	282.7	268.0	225.2	175.1	86.0	85.0	115.8
80°	65.7	145.7	201.8	240.0	254.2	240.0	195.4	138.4	59.8	68.0	102.0
82.5°	43.2	112.6	175.6	218.3	234.0	216.5	169.6	106.6	38.2	55.2	91.9
85°	26.2	89.2	153.1	196.3	214.2	197.2	148.5	80.9	21.1	42.3	80.0
87.5°	11.5	69.0	136.5	181.1	197.2	181.6	132.4	63.4	8.7	33.1	68.5
90°	0.9	54.7	120.4	166.9	181.1	166.4	117.2	51.5	0.0	23.9	58.8
92.5°	0.9	46.9	110.3	154.5	170.5	154.0	105.7	42.3	0.0	17.5	49.6
95°	1.4	39.5	100.2	144.8	157.7	143.4	96.5	36.3	0.0	12.0	41.8
97.5°	1.4	35.9	91.9	135.1	149.4	134.2	88.3	32.6	0.0	8.7	34.0
100°	0.9	33.1	85.5	126.0	139.3	125.0	81.8	29.4	0.0	5.5	27.6
102.5°	0.9	30.8	80.0	118.1	128.7	116.8	76.3	27.6	0.0	4.6	22.5
105°	0.9	29.4	74.9	108.9	121.4	108.9	71.7	25.7	0.0	3.7	17.5
107.5°	0.9	27.6	71.3	103.9	114.0	103.0	68.0	24.4	0.0	3.7	14.3
110°	0.9	26.2	68.0	96.5	108.0	97.5	64.8	22.1	0.0	2.3	11.5

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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	23.9	64.8	91.5	102.5	91.9	62.1	20.2	0.0	2.3	10.1
115°	0.9	21.6	62.1	88.3	96.5	87.3	59.3	17.9	0.0	1.8	9.2
117.5°	0.9	20.2	60.2	84.1	92.4	83.2	57.0	17.0	0.0	1.8	8.7
120°	0.9	19.3	57.5	80.0	86.4	79.1	54.2	16.1	0.0	1.8	8.3
122.5°	0.9	18.4	55.2	76.3	83.2	75.8	51.9	15.6	0.0	1.4	7.4
125°	0.9	17.5	51.9	72.2	78.6	71.3	47.8	15.2	0.0	0.9	6.4
127.5°	0.9	16.5	48.7	69.0	74.9	68.0	45.0	14.7	0.0	0.9	6.0
130°	0.9	16.1	44.6	64.8	70.8	63.9	41.8	14.7	0.0	0.9	5.5
132.5°	0.9	15.6	40.0	60.7	67.1	59.8	38.6	14.3	0.0	0.9	4.6
135°	0.9	15.2	35.4	56.5	62.5	55.6	35.9	13.8	0.0	0.9	4.1
137.5°	0.9	14.3	31.3	51.9	57.9	51.0	34.0	12.9	0.0	0.9	3.7
140°	0.9	13.3	28.0	48.3	53.3	46.9	31.3	12.0	0.0	0.5	2.8
142.5°	0.9	12.0	25.3	43.7	48.7	42.8	28.0	10.1	0.0	0.5	2.8
145°	0.9	10.6	23.0	38.2	44.1	38.2	26.2	9.2	0.0	0.5	2.3
147.5°	0.9	9.7	20.7	32.2	40.0	34.9	23.4	7.8	0.0	0.5	1.8
150°	0.9	8.7	17.9	27.1	35.4	30.8	21.6	6.9	0.0	0.0	1.4
152.5°	0.9	7.8	15.6	22.5	31.7	28.0	19.3	6.0	0.0	0.0	0.9
155°	1.4	7.4	13.3	19.8	27.6	24.4	16.1	5.1	0.0	0.0	0.9
157.5°	1.4	6.4	11.0	16.1	24.4	21.1	12.9	4.1	0.0	0.0	0.5
160°	1.4	6.0	9.2	12.4	20.2	17.5	10.6	3.2	0.0	0.0	0.5
162.5°	1.4	5.5	7.8	9.2	16.5	13.8	8.3	2.3	0.0	0.0	0.5
165°	1.4	4.6	6.9	6.4	12.9	10.6	6.4	1.4	0.0	0.0	0.0
167.5°	1.4	4.1	5.5	4.6	9.7	7.8	4.6	0.9	0.0	0.0	0.0
170°	1.4	3.2	4.6	3.2	2.8	5.1	2.8	0.5	0.0	0.0	0.0
172.5°	1.4	2.8	3.7	2.3	0.9	2.8	1.4	0.0	0.0	0.0	0.0
175°	1.4	2.3	2.3	1.4	0.5	0.9	0.0	0.0	0.0	0.0	0.0
177.5°	1.4	1.8	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°	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9
2.5°	1365.2	1350.1	1336.3	1351.0	1361.6	1402.5
5°	1298.6	1282.5	1284.3	1297.7	1333.1	1407.5
7.5°	1229.6	1203.0	1209.4	1246.6	1299.1	1383.6
10°	1148.3	1123.9	1129.9	1186.0	1259.5	1370.3
12.5°	1075.6	1034.7	1069.7	1122.5	1213.6	1362.9
15°	990.6	958.4	977.3	1055.4	1169.4	1328.9
17.5°	898.7	873.8	896.4	974.1	1115.2	1325.3
20°	827.9	793.4	820.1	905.6	1048.1	1286.6
22.5°	748.4	722.2	750.2	828.8	979.6	1245.7
25°	683.1	655.5	683.5	761.7	918.9	1197.5
27.5°	619.6	594.4	619.6	691.4	858.7	1158.4
30°	564.0	539.7	565.4	634.4	788.3	1100.0
32.5°	512.1	480.8	513.9	580.6	726.3	1055.4
35°	458.3	434.9	459.7	533.7	657.3	992.9
37.5°	413.7	389.3	418.8	482.2	599.0	932.2
40°	371.4	349.8	373.3	440.8	549.3	858.2
42.5°	338.3	316.7	340.6	403.1	499.2	802.1
45°	306.1	290.1	309.4	361.8	448.6	728.1
47.5°	282.7	268.9	285.0	331.4	406.4	661.5
50°	262.5	252.8	264.3	301.1	362.7	592.1
52.5°	244.5	234.9	248.2	277.6	328.2	528.6
55°	230.8	222.0	232.1	255.6	293.7	468.9
57.5°	215.6	210.1	217.9	232.1	266.6	415.5
60°	204.6	198.6	206.9	218.3	235.8	361.8
62.5°	192.1	188.9	194.0	203.2	212.4	313.0
65°	181.1	176.5	183.0	186.2	185.3	271.2
67.5°	169.2	167.8	171.5	171.9	165.0	228.9
70°	156.8	155.8	160.4	157.7	143.4	189.8
72.5°	146.6	146.6	149.4	143.9	125.0	153.1
75°	135.6	136.5	138.8	132.4	105.3	120.4
77.5°	125.5	126.4	126.9	118.1	88.3	91.9
80°	114.0	113.5	118.1	107.1	71.7	65.7
82.5°	103.9	102.0	104.8	93.8	57.9	43.2
85°	92.4	92.9	94.7	81.8	46.4	26.2
87.5°	83.2	83.2	85.0	72.2	34.9	11.5
90°	72.2	71.3	74.0	61.1	26.2	0.9
92.5°	63.0	63.0	64.8	52.4	19.3	0.9
95°	53.8	54.2	55.6	43.2	14.7	1.4
97.5°	46.0	46.4	48.3	36.8	10.6	1.4
100°	39.1	39.5	40.5	29.4	8.3	0.9
102.5°	32.6	34.0	34.0	24.4	6.4	0.9
105°	27.6	29.4	28.5	19.8	6.0	0.9
107.5°	23.0	24.8	24.8	16.1	6.0	0.9
110°	18.8	21.6	21.1	13.8	4.6	0.9



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	16.1	18.4	17.0	12.0	4.6	0.9
115°	13.8	16.1	15.2	11.0	4.1	0.9
117.5°	12.4	13.8	13.8	10.6	4.1	0.9
120°	11.5	12.9	12.4	10.1	4.1	0.9
122.5°	10.6	11.5	11.5	9.2	3.7	0.9
125°	10.1	10.6	11.0	8.3	3.7	0.9
127.5°	9.7	10.6	10.6	7.8	3.2	0.9
130°	8.7	9.7	9.7	7.4	3.2	0.9
132.5°	7.8	8.7	8.7	6.9	3.2	0.9
135°	7.4	8.3	8.3	6.4	3.2	0.9
137.5°	6.9	7.4	7.4	6.0	3.2	0.9
140°	6.0	6.9	6.9	5.5	3.2	0.9
142.5°	5.5	6.4	6.4	5.1	2.8	0.9
145°	5.1	5.5	6.0	4.6	2.8	0.9
147.5°	4.1	5.1	5.5	4.1	2.8	0.9
150°	3.2	4.6	4.6	4.1	2.8	0.9
152.5°	2.3	4.1	4.1	3.7	2.3	0.9
155°	1.8	3.2	3.7	3.2	2.3	1.4
157.5°	1.4	2.8	3.2	3.2	2.3	1.4
160°	0.9	2.3	2.8	2.8	1.8	1.4
162.5°	0.5	1.8	2.3	2.8	1.8	1.4
165°	0.0	1.4	1.8	2.3	1.8	1.4
167.5°	0.0	0.9	1.4	1.8	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)