

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: P895352

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895352
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-LOW-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 3500K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

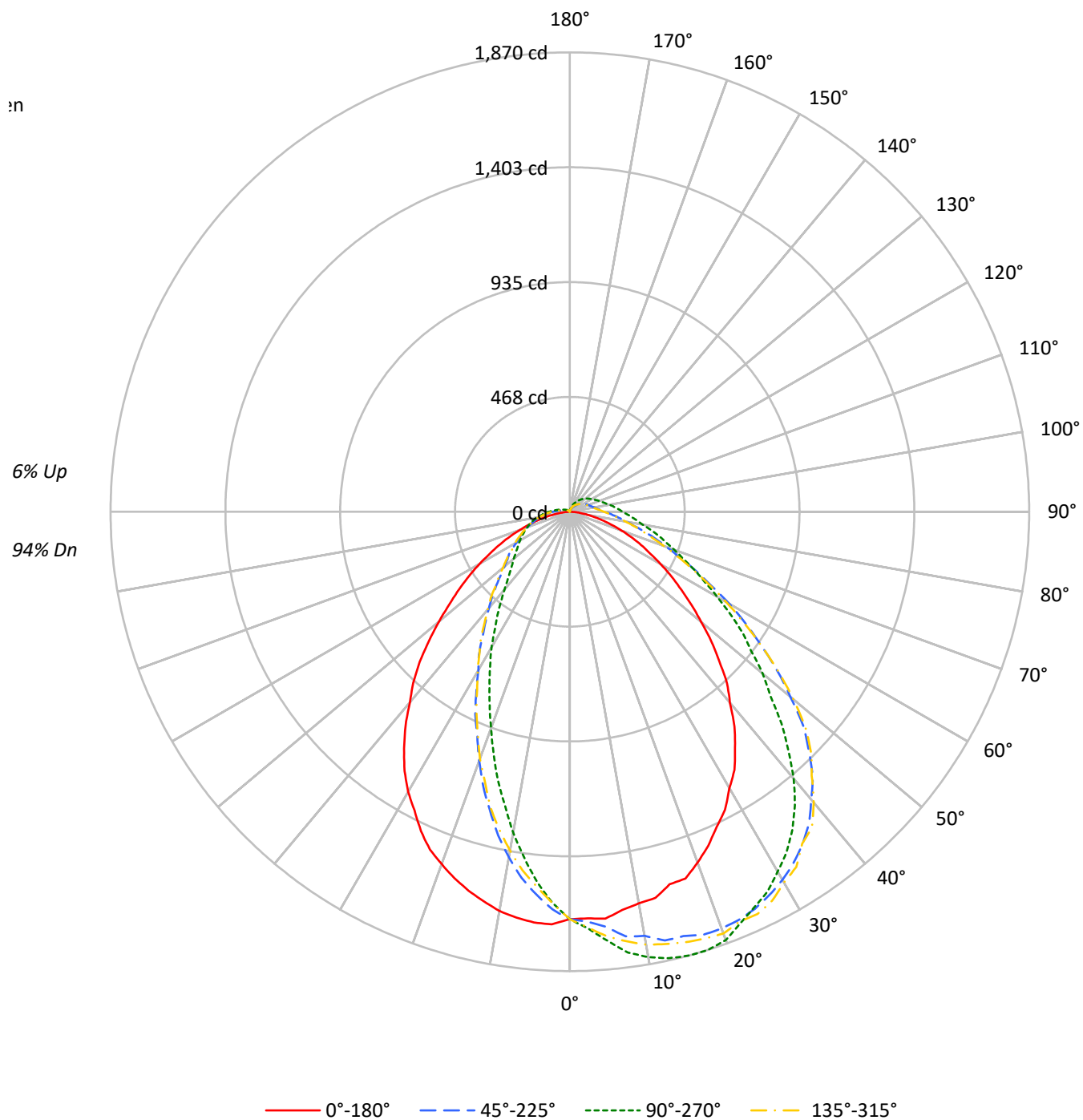
Lumens per Lamp: N/A
Luminaire Lumens: 4133.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-LOW-3500K

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°	8422	8422	8422	8422
5°	8465	8582	8544	7418
10°	8324	8765	8486	6322
15°	8219	8734	8358	5286
20°	8167	8561	8202	4325
25°	7868	8164	7977	3558
30°	7551	7802	7650	2939
35°	7192	7363	7213	2395
40°	6633	6736	6630	1964
45°	6082	5945	6113	1673
50°	5424	5189	5399	1512
55°	4796	4546	4763	1389
60°	4226	3877	4188	1313
65°	3725	3339	3637	1247
70°	3192	2926	3084	1192
75°	2638	2660	2568	1148
80°	2084	2394	1896	1069
85°	1527	2311	1236	1002

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 8433 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	3.8
10°-20°	433.1	10.5
20°-30°	622.9	15.1
30°-40°	706.9	17.1
40°-50°	675.6	16.3
50°-60°	548.9	13.3
60°-70°	383.0	9.3
70°-80°	237.3	5.7
80°-90°	136.1	3.3
90°-100°	81.4	2.0
100°-110°	53.4	1.3
110°-120°	37.4	0.9
120°-130°	27.1	0.7
130°-140°	18.0	0.4
140°-150°	10.2	0.2
150°-160°	4.5	0.1
160°-170°	1.3	0.0
170°-180°	0.1	0.0
0°-30°	1211.8	29.3
0°-40°	1918.7	46.4
0°-60°	3143.1	76.0
0°-90°	3899.5	94.4
90°-120°	172.2	4.2
90°-150°	227.5	5.5
90°-180°	233.0	5.6
0°-180°	4133.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1658	1658	1658	1658	1658	
5°	1663	1753	1678	1515	1663	157
15°	1570	1870	1596	1132	1570	446
25°	1414	1777	1434	774	1414	652
35°	1173	1579	1176	514	1173	731
45°	860	1217	864	343	860	664
55°	554	858	550	262	554	498
65°	320	558	313	208	320	318
75°	142	374	138	161	142	154
85°	31	253	25	110	31	35
90°	1	214	0	84	1	2
95°	2	186	0	64	2	1
105°	1	143	0	35	1	1
115°	1	114	0	19	1	1
125°	1	93	0	12	1	1
135°	1	74	0	10	1	1
145°	1	52	0	6	1	1
155°	2	33	0	4	2	1
165°	2	15	0	2	2	0
175°	2	0	0	0	2	0
180°	0	0	0	0	0	

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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-LOW-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2
2.5°	1656.6	1669.1	1670.2	1709.3	1697.9	1712.5	1694.1	1697.3	1681.0	1676.7	1620.2
5°	1662.6	1689.2	1696.2	1763.6	1752.7	1760.3	1734.8	1716.3	1678.3	1655.5	1564.3
7.5°	1634.3	1704.4	1743.5	1791.3	1809.2	1815.1	1763.6	1729.4	1666.4	1610.4	1503.5
10°	1618.6	1715.2	1753.2	1824.9	1840.7	1829.3	1789.1	1732.6	1650.1	1560.0	1428.6
12.5°	1609.9	1721.2	1787.5	1860.8	1861.3	1849.4	1802.1	1741.3	1623.5	1505.7	1349.3
15°	1569.7	1720.1	1788.0	1862.4	1870.5	1862.9	1814.6	1735.3	1596.3	1438.3	1258.1
17.5°	1565.4	1717.4	1805.4	1883.6	1870.0	1864.6	1822.2	1732.6	1563.8	1369.9	1172.3
20°	1519.8	1711.4	1805.4	1859.7	1855.3	1857.5	1827.1	1728.8	1526.3	1296.1	1078.3
22.5°	1471.4	1704.4	1797.8	1839.0	1813.0	1852.6	1805.4	1718.5	1488.3	1219.0	984.9
25°	1414.4	1693.0	1783.1	1809.7	1776.6	1807.5	1807.0	1702.8	1434.0	1135.9	911.1
27.5°	1368.3	1675.1	1759.2	1799.4	1742.9	1769.5	1784.7	1683.7	1369.9	1053.9	824.2
30°	1299.3	1652.3	1730.4	1736.4	1691.9	1725.6	1742.9	1659.9	1316.2	961.1	745.0
32.5°	1246.7	1626.2	1695.2	1687.0	1642.5	1687.0	1715.2	1636.0	1252.1	879.6	689.0
35°	1172.8	1594.7	1651.2	1608.3	1579.0	1615.9	1649.0	1610.4	1176.1	792.7	617.4
37.5°	1101.1	1567.0	1598.5	1545.3	1505.1	1546.4	1619.1	1562.7	1099.5	723.8	564.1
40°	1013.7	1503.5	1529.5	1457.3	1417.2	1478.0	1544.7	1521.4	1013.2	652.1	512.6
42.5°	947.5	1456.2	1463.8	1365.0	1317.2	1381.9	1457.9	1462.8	943.1	587.5	467.0
45°	860.1	1390.0	1375.9	1267.3	1217.3	1275.4	1389.5	1402.5	864.4	531.6	422.4
47.5°	781.3	1316.2	1288.5	1161.4	1105.5	1174.4	1301.0	1335.2	776.4	480.0	380.6
50°	699.3	1233.6	1172.3	1062.6	1025.1	1059.3	1188.6	1245.0	696.1	428.9	348.6
52.5°	624.4	1142.4	1066.4	968.1	930.7	958.9	1070.7	1155.4	616.3	386.1	320.4
55°	553.8	1051.2	952.9	866.0	858.4	867.1	951.3	1048.5	550.0	348.0	302.4
57.5°	490.8	940.4	850.8	786.8	773.2	780.2	838.3	938.3	486.0	310.0	276.4
60°	427.3	826.9	749.8	700.4	692.8	698.3	735.7	830.7	423.5	278.0	251.9
62.5°	369.8	712.9	644.5	626.0	620.6	620.6	636.4	723.2	364.9	245.4	233.5
65°	320.4	615.2	563.6	556.5	558.2	557.6	547.9	603.8	312.8	216.6	217.2
67.5°	270.4	511.5	482.7	491.4	497.9	495.2	474.6	502.2	263.9	190.6	202.5
70°	224.2	422.4	417.0	436.5	451.8	437.6	407.8	410.5	216.6	165.1	183.5
72.5°	180.8	341.5	366.5	393.7	408.3	392.6	351.3	339.4	174.3	141.7	166.1
75°	142.3	274.7	314.4	354.6	373.6	353.5	305.7	265.0	138.5	119.5	152.0
77.5°	108.6	217.7	268.8	315.5	333.9	316.6	266.1	206.9	101.5	100.4	136.8
80°	77.6	172.1	238.4	283.4	300.3	283.4	230.8	163.4	70.6	80.4	120.5
82.5°	51.0	133.0	207.4	257.9	276.4	255.7	200.4	126.0	45.1	65.2	108.6
85°	30.9	105.3	180.8	231.8	253.0	232.9	175.4	95.6	25.0	50.0	94.5
87.5°	13.6	81.4	161.3	213.9	232.9	214.5	156.4	74.9	10.3	39.1	80.9
90°	1.1	64.6	142.3	197.1	213.9	196.6	138.5	60.8	0.0	28.2	69.5
92.5°	1.1	55.4	130.3	182.4	201.4	181.9	124.9	50.0	0.0	20.6	58.6
95°	1.6	46.7	118.4	171.0	186.2	169.4	114.0	42.9	0.0	14.1	49.4
97.5°	1.6	42.4	108.6	159.6	176.5	158.5	104.3	38.6	0.0	10.3	40.2
100°	1.1	39.1	101.0	148.8	164.5	147.7	96.6	34.8	0.0	6.5	32.6
102.5°	1.1	36.4	94.5	139.5	152.0	137.9	90.1	32.6	0.0	5.4	26.6
105°	1.1	34.8	88.5	128.7	143.3	128.7	84.7	30.4	0.0	4.3	20.6
107.5°	1.1	32.6	84.2	122.7	134.7	121.6	80.4	28.8	0.0	4.3	16.8
110°	1.1	30.9	80.4	114.0	127.6	115.1	76.6	26.1	0.0	2.7	13.6

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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°	1.1	28.2	76.6	108.1	121.1	108.6	73.3	23.9	0.0	2.7	11.9
115°	1.1	25.5	73.3	104.3	114.0	103.2	70.0	21.2	0.0	2.2	10.9
117.5°	1.1	23.9	71.1	99.4	109.1	98.3	67.3	20.1	0.0	2.2	10.3
120°	1.1	22.8	67.9	94.5	102.1	93.4	64.1	19.0	0.0	2.2	9.8
122.5°	1.1	21.7	65.2	90.1	98.3	89.6	61.4	18.5	0.0	1.6	8.7
125°	1.1	20.6	61.4	85.2	92.8	84.2	56.5	17.9	0.0	1.1	7.6
127.5°	1.1	19.5	57.6	81.4	88.5	80.4	53.2	17.4	0.0	1.1	7.1
130°	1.1	19.0	52.7	76.6	83.6	75.5	49.4	17.4	0.0	1.1	6.5
132.5°	1.1	18.5	47.2	71.7	79.3	70.6	45.6	16.8	0.0	1.1	5.4
135°	1.1	17.9	41.8	66.8	73.8	65.7	42.4	16.3	0.0	1.1	4.9
137.5°	1.1	16.8	36.9	61.4	68.4	60.3	40.2	15.2	0.0	1.1	4.3
140°	1.1	15.7	33.1	57.0	63.0	55.4	36.9	14.1	0.0	0.5	3.3
142.5°	1.1	14.1	29.9	51.6	57.6	50.5	33.1	11.9	0.0	0.5	3.3
145°	1.1	12.5	27.1	45.1	52.1	45.1	30.9	10.9	0.0	0.5	2.7
147.5°	1.1	11.4	24.4	38.0	47.2	41.3	27.7	9.2	0.0	0.5	2.2
150°	1.1	10.3	21.2	32.0	41.8	36.4	25.5	8.1	0.0	0.0	1.6
152.5°	1.1	9.2	18.5	26.6	37.5	33.1	22.8	7.1	0.0	0.0	1.1
155°	1.6	8.7	15.7	23.3	32.6	28.8	19.0	6.0	0.0	0.0	1.1
157.5°	1.6	7.6	13.0	19.0	28.8	25.0	15.2	4.9	0.0	0.0	0.5
160°	1.6	7.1	10.9	14.7	23.9	20.6	12.5	3.8	0.0	0.0	0.5
162.5°	1.6	6.5	9.2	10.9	19.5	16.3	9.8	2.7	0.0	0.0	0.5
165°	1.6	5.4	8.1	7.6	15.2	12.5	7.6	1.6	0.0	0.0	0.0
167.5°	1.6	4.9	6.5	5.4	11.4	9.2	5.4	1.1	0.0	0.0	0.0
170°	1.6	3.8	5.4	3.8	3.3	6.0	3.3	0.5	0.0	0.0	0.0
172.5°	1.6	3.3	4.3	2.7	1.1	3.3	1.6	0.0	0.0	0.0	0.0
175°	1.6	2.7	2.7	1.6	0.5	1.1	0.0	0.0	0.0	0.0	0.0
177.5°	1.6	2.2	1.6	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-CC83-LOW-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2
2.5°	1612.6	1594.7	1578.4	1595.8	1608.3	1656.6
5°	1533.9	1514.9	1517.1	1532.8	1574.6	1662.6
7.5°	1452.4	1421.0	1428.6	1472.5	1534.4	1634.3
10°	1356.3	1327.6	1334.6	1400.9	1487.7	1618.6
12.5°	1270.5	1222.2	1263.5	1325.9	1433.4	1609.9
15°	1170.1	1132.1	1154.4	1246.7	1381.3	1569.7
17.5°	1061.5	1032.2	1058.8	1150.6	1317.2	1565.4
20°	977.9	937.2	968.7	1069.7	1238.0	1519.8
22.5°	884.0	853.0	886.1	979.0	1157.1	1471.4
25°	806.9	774.3	807.4	899.7	1085.4	1414.4
27.5°	731.9	702.1	731.9	816.6	1014.3	1368.3
30°	666.2	637.4	667.9	749.3	931.2	1299.3
32.5°	604.9	567.9	607.0	685.8	857.9	1246.7
35°	541.3	513.6	543.0	630.4	776.4	1172.8
37.5°	488.7	459.9	494.6	569.6	707.5	1101.1
40°	438.7	413.2	440.9	520.7	648.8	1013.7
42.5°	399.6	374.1	402.3	476.2	589.7	947.5
45°	361.6	342.6	365.4	427.3	529.9	860.1
47.5°	333.9	317.6	336.6	391.5	480.0	781.3
50°	310.0	298.6	312.2	355.6	428.4	699.3
52.5°	288.9	277.5	293.2	328.0	387.7	624.4
55°	272.6	262.3	274.2	301.9	347.0	553.8
57.5°	254.7	248.1	257.4	274.2	314.9	490.8
60°	241.6	234.6	244.3	257.9	278.5	427.3
62.5°	227.0	223.2	229.1	240.0	250.9	369.8
65°	213.9	208.5	216.1	219.9	218.8	320.4
67.5°	199.8	198.2	202.5	203.1	194.9	270.4
70°	185.2	184.1	189.5	186.2	169.4	224.2
72.5°	173.2	173.2	176.5	169.9	147.7	180.8
75°	160.2	161.3	164.0	156.4	124.3	142.3
77.5°	148.2	149.3	149.9	139.5	104.3	108.6
80°	134.7	134.1	139.5	126.5	84.7	77.6
82.5°	122.7	120.5	123.8	110.8	68.4	51.0
85°	109.1	109.7	111.9	96.6	54.8	30.9
87.5°	98.3	98.3	100.4	85.2	41.3	13.6
90°	85.2	84.2	87.4	72.2	30.9	1.1
92.5°	74.4	74.4	76.6	61.9	22.8	1.1
95°	63.5	64.1	65.7	51.0	17.4	1.6
97.5°	54.3	54.8	57.0	43.4	12.5	1.6
100°	46.2	46.7	47.8	34.8	9.8	1.1
102.5°	38.6	40.2	40.2	28.8	7.6	1.1
105°	32.6	34.8	33.7	23.3	7.1	1.1
107.5°	27.1	29.3	29.3	19.0	7.1	1.1
110°	22.3	25.5	25.0	16.3	5.4	1.1



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	19.0	21.7	20.1	14.1	5.4	1.1
115°	16.3	19.0	17.9	13.0	4.9	1.1
117.5°	14.7	16.3	16.3	12.5	4.9	1.1
120°	13.6	15.2	14.7	11.9	4.9	1.1
122.5°	12.5	13.6	13.6	10.9	4.3	1.1
125°	11.9	12.5	13.0	9.8	4.3	1.1
127.5°	11.4	12.5	12.5	9.2	3.8	1.1
130°	10.3	11.4	11.4	8.7	3.8	1.1
132.5°	9.2	10.3	10.3	8.1	3.8	1.1
135°	8.7	9.8	9.8	7.6	3.8	1.1
137.5°	8.1	8.7	8.7	7.1	3.8	1.1
140°	7.1	8.1	8.1	6.5	3.8	1.1
142.5°	6.5	7.6	7.6	6.0	3.3	1.1
145°	6.0	6.5	7.1	5.4	3.3	1.1
147.5°	4.9	6.0	6.5	4.9	3.3	1.1
150°	3.8	5.4	5.4	4.9	3.3	1.1
152.5°	2.7	4.9	4.9	4.3	2.7	1.1
155°	2.2	3.8	4.3	3.8	2.7	1.6
157.5°	1.6	3.3	3.8	3.8	2.7	1.6
160°	1.1	2.7	3.3	3.3	2.2	1.6
162.5°	0.5	2.2	2.7	3.3	2.2	1.6
165°	0.0	1.6	2.2	2.7	2.2	1.6
167.5°	0.0	1.1	1.6	2.2	1.6	1.6
170°	0.0	0.5	1.1	1.6	1.6	1.6
172.5°	0.0	0.0	0.5	1.1	1.1	1.6
175°	0.0	0.0	0.0	0.5	1.1	1.6
177.5°	0.0	0.0	0.0	0.5	1.1	1.6
180°	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)