

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: P895354

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895354
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 5000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

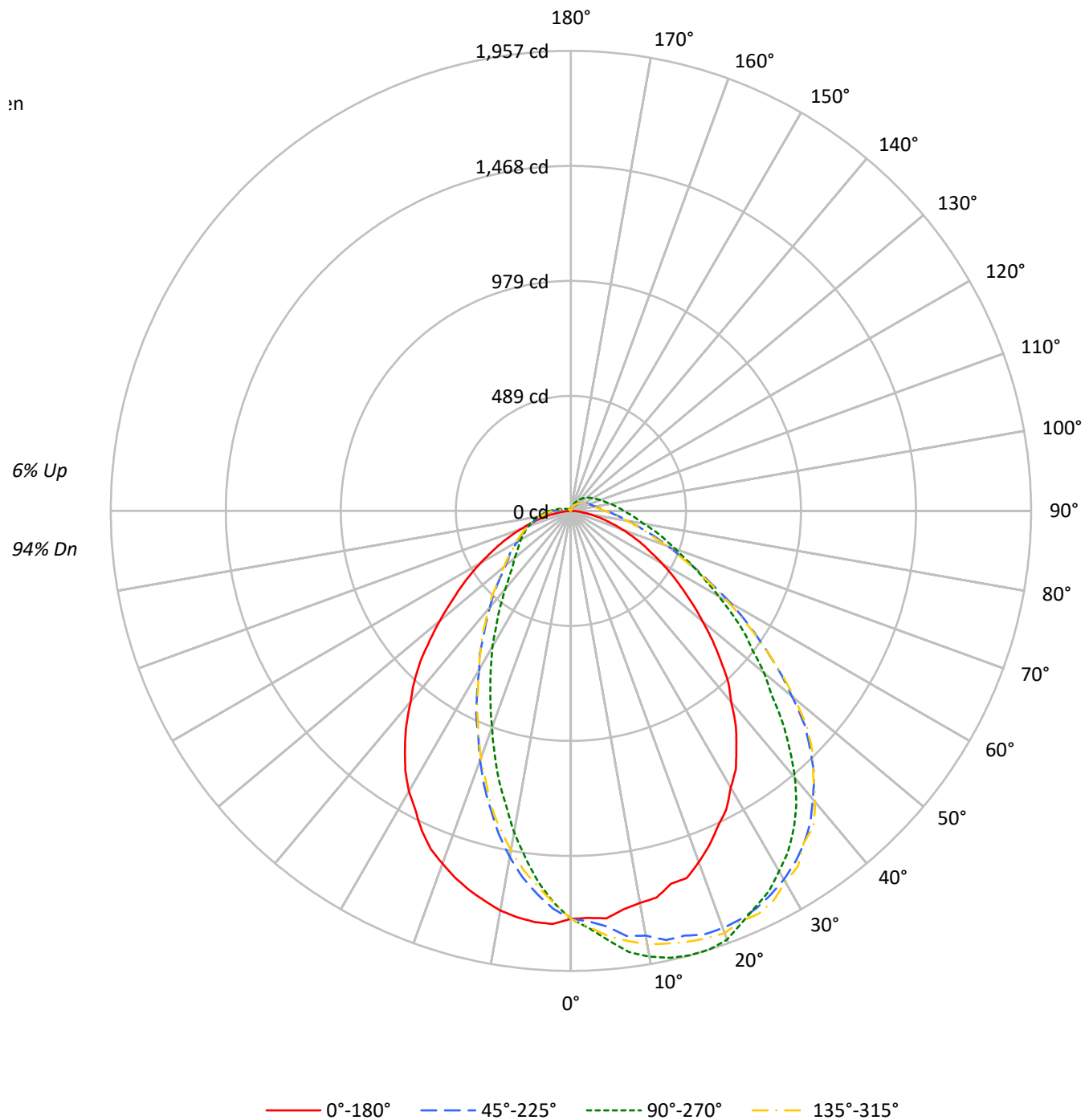
Lumens per Lamp: N/A
Luminaire Lumens: 4324.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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

TEST NUMBER: P895354

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-LOW-5000K

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°	8811	8811	8811	8811
5°	8856	8979	8940	7760
10°	8709	9170	8878	6614
15°	8599	9137	8744	5530
20°	8545	8957	8581	4524
25°	8232	8541	8346	3723
30°	7901	8163	8003	3075
35°	7525	7703	7546	2506
40°	6940	7047	6936	2055
45°	6363	6220	6396	1750
50°	5675	5429	5649	1581
55°	5018	4756	4983	1453
60°	4421	4056	4382	1373
65°	3897	3493	3804	1304
70°	3340	3061	3227	1247
75°	2759	2782	2686	1201
80°	2181	2504	1982	1118
85°	1601	2418	1290	1048

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 8822 cd/sqm

TEST NUMBER: P895354

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-LOW-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.8
10°-20°	453.1	10.5
20°-30°	651.7	15.1
30°-40°	739.6	17.1
40°-50°	706.8	16.3
50°-60°	574.3	13.3
60°-70°	400.7	9.3
70°-80°	248.2	5.7
80°-90°	142.4	3.3
90°-100°	85.1	2.0
100°-110°	55.9	1.3
110°-120°	39.2	0.9
120°-130°	28.4	0.7
130°-140°	18.9	0.4
140°-150°	10.6	0.2
150°-160°	4.7	0.1
160°-170°	1.4	0.0
170°-180°	0.1	0.0
0°-30°	1267.8	29.3
0°-40°	2007.3	46.4
0°-60°	3288.4	76.1
0°-90°	4079.8	94.4
90°-120°	180.1	4.2
90°-150°	238.0	5.5
90°-180°	244.0	5.6
0°-180°	4324.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1735	1735	1735	1735	1735	
5°	1739	1834	1756	1585	1739	164
15°	1642	1957	1670	1184	1642	467
25°	1480	1859	1500	810	1480	683
35°	1227	1652	1230	537	1227	765
45°	900	1274	904	358	900	694
55°	579	898	575	274	579	521
65°	335	584	327	218	335	333
75°	149	391	145	169	149	161
85°	32	265	26	115	32	36
90°	1	224	0	88	1	2
95°	2	195	0	67	2	1
105°	1	150	0	36	1	1
115°	1	119	0	20	1	1
125°	1	97	0	13	1	1
135°	1	77	0	10	1	1
145°	1	54	0	7	1	1
155°	2	34	0	4	2	1
165°	2	16	0	2	2	0
175°	2	1	0	0	2	0
180°	1	1	1	1	1	

TEST NUMBER: P895354

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9
2.5°	1733.2	1746.2	1747.4	1788.3	1776.3	1791.7	1772.4	1775.8	1758.7	1754.2	1695.1
5°	1739.4	1767.2	1774.6	1845.1	1833.7	1841.7	1815.0	1795.6	1755.9	1732.0	1636.6
7.5°	1709.9	1783.1	1824.0	1874.0	1892.8	1899.0	1845.1	1809.3	1743.4	1684.9	1573.0
10°	1693.4	1794.5	1834.3	1909.3	1925.7	1913.8	1871.8	1812.7	1726.3	1632.0	1494.6
12.5°	1684.3	1800.8	1870.1	1946.7	1947.3	1934.8	1885.4	1821.8	1698.5	1575.2	1411.6
15°	1642.3	1799.6	1870.6	1948.5	1957.0	1949.0	1898.5	1815.5	1670.1	1504.8	1316.2
17.5°	1637.7	1796.8	1888.8	1970.6	1956.4	1950.7	1906.4	1812.7	1636.0	1433.2	1226.4
20°	1590.0	1790.5	1888.8	1945.6	1941.1	1943.3	1911.5	1808.7	1596.8	1356.0	1128.2
22.5°	1539.4	1783.1	1880.9	1924.0	1896.8	1938.2	1888.8	1797.9	1557.1	1275.3	1030.5
25°	1479.8	1771.2	1865.5	1893.4	1858.7	1891.1	1890.5	1781.4	1500.3	1188.4	953.2
27.5°	1431.5	1752.5	1840.5	1882.6	1823.5	1851.3	1867.2	1761.6	1433.2	1102.6	862.3
30°	1359.4	1728.6	1810.4	1816.7	1770.1	1805.3	1823.5	1736.6	1377.0	1005.5	779.4
32.5°	1304.3	1701.3	1773.5	1765.0	1718.4	1765.0	1794.5	1711.6	1310.0	920.3	720.9
35°	1227.0	1668.4	1727.5	1682.6	1651.9	1690.6	1725.2	1684.9	1230.4	829.4	645.9
37.5°	1152.0	1639.4	1672.4	1616.7	1574.7	1617.8	1694.0	1634.9	1150.3	757.2	590.2
40°	1060.6	1573.0	1600.2	1524.7	1482.6	1546.3	1616.1	1591.7	1060.0	682.2	536.3
42.5°	991.3	1523.5	1531.5	1428.1	1378.1	1445.7	1525.2	1530.4	986.7	614.6	488.5
45°	899.8	1454.2	1439.5	1325.9	1273.6	1334.4	1453.7	1467.3	904.4	556.1	442.0
47.5°	817.4	1377.0	1348.0	1215.1	1156.6	1228.7	1361.1	1396.9	812.3	502.2	398.2
50°	731.7	1290.6	1226.4	1111.7	1072.5	1108.3	1243.5	1302.6	728.3	448.8	364.7
52.5°	653.3	1195.2	1115.7	1012.9	973.7	1003.2	1120.2	1208.8	644.8	403.9	335.2
55°	579.4	1099.8	996.9	906.1	898.1	907.2	995.2	1096.9	575.4	364.1	316.4
57.5°	513.5	983.9	890.2	823.1	808.9	816.3	877.1	981.6	508.4	324.4	289.1
60°	447.1	865.2	784.5	732.8	724.8	730.5	769.7	869.1	443.1	290.8	263.6
62.5°	386.9	745.9	674.3	655.0	649.3	649.3	665.8	756.7	381.7	256.8	244.3
65°	335.2	643.6	589.6	582.3	584.0	583.4	573.2	631.7	327.2	226.7	227.2
67.5°	282.9	535.1	505.0	514.1	520.9	518.1	496.5	525.5	276.1	199.4	211.9
70°	234.6	442.0	436.3	456.7	472.6	457.9	426.6	429.5	226.7	172.7	192.0
72.5°	189.2	357.3	383.4	411.8	427.2	410.7	367.5	355.0	182.3	148.3	173.8
75°	148.8	287.4	328.9	370.9	390.8	369.8	319.8	277.2	144.9	125.0	159.1
77.5°	113.6	227.8	281.2	330.0	349.4	331.2	278.4	216.4	106.2	105.1	143.2
80°	81.2	180.1	249.4	296.5	314.1	296.5	241.4	171.0	73.8	84.1	126.1
82.5°	53.4	139.2	217.0	269.8	289.1	267.6	209.6	131.8	47.1	68.2	113.6
85°	32.4	110.2	189.2	242.6	264.7	243.7	183.5	100.0	26.1	52.3	98.8
87.5°	14.2	85.2	168.7	223.8	243.7	224.4	163.6	78.4	10.8	40.9	84.6
90°	1.1	67.6	148.8	206.2	223.8	205.6	144.9	63.6	0.0	29.5	72.7
92.5°	1.1	57.9	136.3	190.9	210.8	190.3	130.7	52.3	0.0	21.6	61.4
95°	1.7	48.9	123.8	178.9	194.8	177.2	119.3	44.9	0.0	14.8	51.7
97.5°	1.7	44.3	113.6	167.0	184.6	165.9	109.1	40.3	0.0	10.8	42.0
100°	1.1	40.9	105.7	155.6	172.1	154.5	101.1	36.4	0.0	6.8	34.1
102.5°	1.1	38.1	98.8	146.0	159.1	144.3	94.3	34.1	0.0	5.7	27.8
105°	1.1	36.4	92.6	134.6	150.0	134.6	88.6	31.8	0.0	4.5	21.6
107.5°	1.1	34.1	88.0	128.4	140.9	127.2	84.1	30.1	0.0	4.5	17.6
110°	1.1	32.4	84.1	119.3	133.5	120.4	80.1	27.3	0.0	2.8	14.2

TEST NUMBER: P895354

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1.1	29.5	80.1	113.0	126.7	113.6	76.7	25.0	0.0	2.8	12.5
115°	1.1	26.7	76.7	109.1	119.3	107.9	73.3	22.2	0.0	2.3	11.4
117.5°	1.1	25.0	74.4	104.0	114.2	102.8	70.4	21.0	0.0	2.3	10.8
120°	1.1	23.9	71.0	98.8	106.8	97.7	67.0	19.9	0.0	2.3	10.2
122.5°	1.1	22.7	68.2	94.3	102.8	93.7	64.2	19.3	0.0	1.7	9.1
125°	1.1	21.6	64.2	89.2	97.1	88.0	59.1	18.7	0.0	1.1	8.0
127.5°	1.1	20.5	60.2	85.2	92.6	84.1	55.7	18.2	0.0	1.1	7.4
130°	1.1	19.9	55.1	80.1	87.5	79.0	51.7	18.2	0.0	1.1	6.8
132.5°	1.1	19.3	49.4	75.0	82.9	73.8	47.7	17.6	0.0	1.1	5.7
135°	1.1	18.7	43.7	69.9	77.3	68.7	44.3	17.0	0.0	1.1	5.1
137.5°	1.1	17.6	38.6	64.2	71.6	63.1	42.0	15.9	0.0	1.1	4.5
140°	1.1	16.5	34.7	59.6	65.9	57.9	38.6	14.8	0.0	0.6	3.4
142.5°	1.1	14.8	31.2	54.0	60.2	52.8	34.7	12.5	0.0	0.6	3.4
145°	1.1	13.1	28.4	47.1	54.5	47.1	32.4	11.4	0.0	0.6	2.8
147.5°	1.1	11.9	25.6	39.8	49.4	43.2	29.0	9.7	0.0	0.6	2.3
150°	1.1	10.8	22.2	33.5	43.7	38.1	26.7	8.5	0.0	0.0	1.7
152.5°	1.1	9.7	19.3	27.8	39.2	34.7	23.9	7.4	0.0	0.0	1.1
155°	1.7	9.1	16.5	24.4	34.1	30.1	19.9	6.2	0.0	0.0	1.1
157.5°	1.7	8.0	13.6	19.9	30.1	26.1	15.9	5.1	0.0	0.0	0.6
160°	1.7	7.4	11.4	15.3	25.0	21.6	13.1	4.0	0.0	0.0	0.6
162.5°	1.7	6.8	9.7	11.4	20.5	17.0	10.2	2.8	0.0	0.0	0.6
165°	1.7	5.7	8.5	8.0	15.9	13.1	8.0	1.7	0.0	0.0	0.0
167.5°	1.7	5.1	6.8	5.7	11.9	9.7	5.7	1.1	0.0	0.0	0.0
170°	1.7	4.0	5.7	4.0	3.4	6.2	3.4	0.6	0.0	0.0	0.0
172.5°	1.7	3.4	4.5	2.8	1.1	3.4	1.7	0.0	0.0	0.0	0.0
175°	1.7	2.8	2.8	1.7	0.6	1.1	0.0	0.0	0.0	0.0	0.0
177.5°	1.7	2.3	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

TEST NUMBER: P895354

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9
2.5°	1687.1	1668.4	1651.4	1669.5	1682.6	1733.2
5°	1604.8	1584.9	1587.2	1603.6	1647.4	1739.4
7.5°	1519.6	1486.6	1494.6	1540.6	1605.3	1709.9
10°	1419.0	1388.9	1396.3	1465.6	1556.5	1693.4
12.5°	1329.3	1278.7	1321.9	1387.2	1499.7	1684.3
15°	1224.2	1184.4	1207.7	1304.3	1445.2	1642.3
17.5°	1110.6	1079.9	1107.7	1203.7	1378.1	1637.7
20°	1023.1	980.5	1013.4	1119.1	1295.2	1590.0
22.5°	924.8	892.4	927.1	1024.2	1210.5	1539.4
25°	844.1	810.1	844.7	941.3	1135.6	1479.8
27.5°	765.7	734.5	765.7	854.4	1061.1	1431.5
30°	697.0	666.9	698.7	783.9	974.2	1359.4
32.5°	632.8	594.2	635.1	717.5	897.5	1304.3
35°	566.4	537.4	568.1	659.5	812.3	1227.0
37.5°	511.3	481.1	517.5	595.9	740.2	1152.0
40°	459.0	432.3	461.3	544.8	678.8	1060.6
42.5°	418.1	391.4	420.9	498.2	616.9	991.3
45°	378.3	358.4	382.3	447.1	554.4	899.8
47.5°	349.4	332.3	352.2	409.6	502.2	817.4
50°	324.4	312.4	326.6	372.1	448.2	731.7
52.5°	302.2	290.3	306.8	343.1	405.6	653.3
55°	285.2	274.4	286.9	315.8	363.0	579.4
57.5°	266.4	259.6	269.3	286.9	329.5	513.5
60°	252.8	245.4	255.6	269.8	291.4	447.1
62.5°	237.5	233.5	239.7	251.1	262.4	386.9
65°	223.8	218.1	226.1	230.1	228.9	335.2
67.5°	209.0	207.3	211.9	212.5	203.9	282.9
70°	193.7	192.6	198.3	194.8	177.2	234.6
72.5°	181.2	181.2	184.6	177.8	154.5	189.2
75°	167.6	168.7	171.6	163.6	130.1	148.8
77.5°	155.1	156.2	156.8	146.0	109.1	113.6
80°	140.9	140.3	146.0	132.4	88.6	81.2
82.5°	128.4	126.1	129.5	115.9	71.6	53.4
85°	114.2	114.7	117.0	101.1	57.4	32.4
87.5°	102.8	102.8	105.1	89.2	43.2	14.2
90°	89.2	88.0	91.5	75.6	32.4	1.1
92.5°	77.8	77.8	80.1	64.8	23.9	1.1
95°	66.5	67.0	68.7	53.4	18.2	1.7
97.5°	56.8	57.4	59.6	45.4	13.1	1.7
100°	48.3	48.9	50.0	36.4	10.2	1.1
102.5°	40.3	42.0	42.0	30.1	8.0	1.1
105°	34.1	36.4	35.2	24.4	7.4	1.1
107.5°	28.4	30.7	30.7	19.9	7.4	1.1
110°	23.3	26.7	26.1	17.0	5.7	1.1



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	19.9	22.7	21.0	14.8	5.7	1.1
115°	17.0	19.9	18.7	13.6	5.1	1.1
117.5°	15.3	17.0	17.0	13.1	5.1	1.1
120°	14.2	15.9	15.3	12.5	5.1	1.1
122.5°	13.1	14.2	14.2	11.4	4.5	1.1
125°	12.5	13.1	13.6	10.2	4.5	1.1
127.5°	11.9	13.1	13.1	9.7	4.0	1.1
130°	10.8	11.9	11.9	9.1	4.0	1.1
132.5°	9.7	10.8	10.8	8.5	4.0	1.1
135°	9.1	10.2	10.2	8.0	4.0	1.1
137.5°	8.5	9.1	9.1	7.4	4.0	1.1
140°	7.4	8.5	8.5	6.8	4.0	1.1
142.5°	6.8	8.0	8.0	6.2	3.4	1.1
145°	6.2	6.8	7.4	5.7	3.4	1.1
147.5°	5.1	6.2	6.8	5.1	3.4	1.1
150°	4.0	5.7	5.7	5.1	3.4	1.1
152.5°	2.8	5.1	5.1	4.5	2.8	1.1
155°	2.3	4.0	4.5	4.0	2.8	1.7
157.5°	1.7	3.4	4.0	4.0	2.8	1.7
160°	1.1	2.8	3.4	3.4	2.3	1.7
162.5°	0.6	2.3	2.8	3.4	2.3	1.7
165°	0.0	1.7	2.3	2.8	2.3	1.7
167.5°	0.0	1.1	1.7	2.3	1.7	1.7
170°	0.0	0.6	1.1	1.7	1.7	1.7
172.5°	0.0	0.0	0.6	1.1	1.1	1.7
175°	0.0	0.0	0.0	0.6	1.1	1.7
177.5°	0.0	0.0	0.0	0.6	1.1	1.7
180°	0.6	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)