

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: CORELITE

Report Number: P621689

Luminaire Tested: VLT-FA-100U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621689
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-21)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FA-100U-100D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6311.7 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

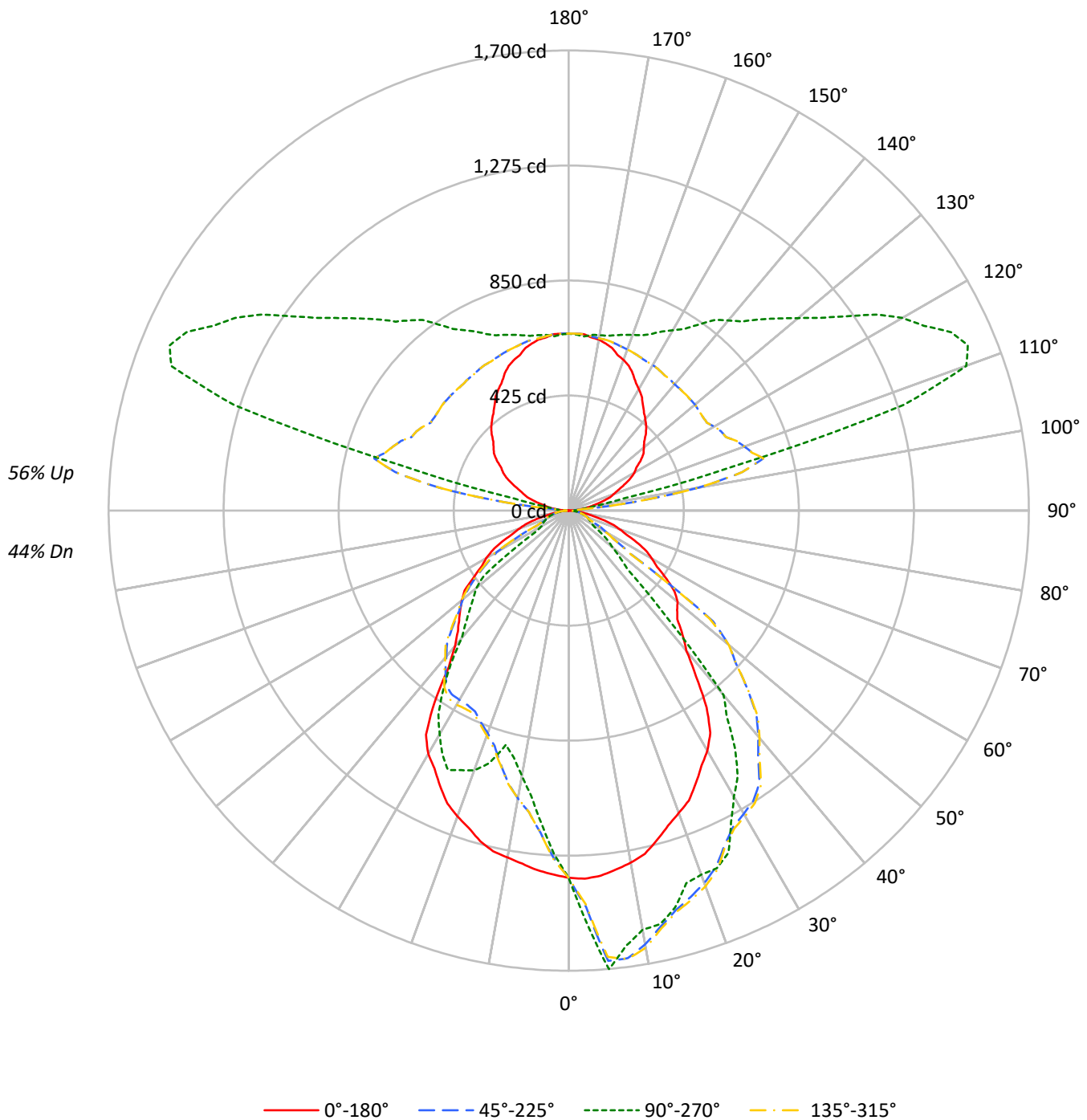
Input Watts (W): 58.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	90	86	89	86	83	80	71	69	67	58	57	56	46	45	44
2	89	82	77	72	82	76	71	67	63	60	57	52	50	48	42	40	39
3	82	73	66	61	75	67	61	57	57	52	49	47	44	41	37	35	34
4	75	65	58	52	69	60	54	49	51	46	42	42	39	36	34	32	30
5	69	58	51	45	63	54	47	42	46	41	37	38	34	31	31	28	26
6	64	52	45	39	58	49	42	37	41	36	32	35	31	28	28	25	23
7	59	47	40	35	54	44	37	33	38	32	29	32	28	25	26	23	21
8	55	43	36	31	50	40	34	29	34	29	26	29	25	22	24	21	19
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	22	19	17
10	48	36	29	25	44	34	28	23	29	24	21	25	21	18	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9736	9736	9736	9736
5°	9753	12249	9604	8352
10°	9625	11455	9484	7251
15°	9361	11279	9393	6654
20°	9075	10930	9181	7799
25°	8797	11048	8896	8371
30°	8486	10110	8600	7902
35°	7775	9371	7581	7085
40°	6335	8339	6115	5767
45°	5757	3095	5813	5253
50°	5855	2358	5747	4992
55°	5526	1830	5336	2988
60°	5091	1406	5052	1663
65°	4686	1453	4593	1757
70°	4169	1536	4054	1825
75°	3560	1608	3405	1874
80°	2682	1653	2508	1938
85°	1820	1474	1589	1820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10660 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	2.1
10°-20°	358.5	5.7
20°-30°	536.5	8.5
30°-40°	610.1	9.7
40°-50°	521.8	8.3
50°-60°	351.9	5.6
60°-70°	181.6	2.9
70°-80°	82.0	1.3
80°-90°	25.9	0.4
90°-100°	80.4	1.3
100°-110°	572.9	9.1
110°-120°	777.8	12.3
120°-130°	633.0	10.0
130°-140°	509.1	8.1
140°-150°	401.4	6.4
150°-160°	293.5	4.6
160°-170°	182.3	2.9
170°-180°	62.2	1.0
0°-30°	1025.9	16.3
0°-40°	1636.0	25.9
0°-60°	2509.6	39.8
0°-90°	2799.1	44.3
90°-120°	1431.1	22.7
90°-150°	2974.6	47.1
90°-180°	3513.0	55.7
0°-180°	6311.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1357	1357	1357	1357	1357	
5°	1354	1700	1333	1159	1354	128
15°	1260	1518	1264	896	1260	355
25°	1111	1395	1124	1057	1111	511
35°	888	1070	865	809	888	543
45°	567	305	573	518	567	450
55°	442	146	426	239	442	394
65°	276	86	270	104	276	273
75°	128	58	123	68	128	137
85°	22	18	19	22	22	28
90°	0	12	0	12	0	2
95°	33	45	33	45	33	37
105°	128	629	128	629	128	134
115°	226	1559	226	1559	226	225
125°	325	1250	325	1250	325	289
135°	403	999	403	999	403	310
145°	477	839	477	839	477	300
155°	559	720	559	720	559	257
165°	621	670	621	670	621	174
175°	654	646	654	646	654	62
180°	654	654	654	654	654	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7
2.5°	1361.2	1407.6	1466.0	1506.2	1523.5	1506.2	1456.1	1407.2	1345.7	1327.3	1283.9
5°	1354.0	1497.0	1670.0	1691.0	1700.4	1691.0	1654.9	1488.5	1333.3	1267.1	1195.3
7.5°	1337.4	1587.6	1668.1	1621.5	1621.7	1630.4	1670.6	1579.9	1315.9	1212.0	1123.8
10°	1320.9	1638.0	1627.3	1559.9	1572.0	1566.6	1639.7	1628.1	1301.5	1181.4	1080.7
12.5°	1298.8	1653.7	1573.2	1551.1	1564.3	1556.8	1581.2	1645.1	1289.4	1159.6	1031.0
15°	1260.1	1631.2	1527.9	1518.2	1518.2	1525.0	1534.8	1638.1	1264.3	1119.9	970.3
17.5°	1220.4	1586.4	1496.4	1448.5	1443.4	1452.3	1507.7	1597.9	1228.7	1075.9	911.5
20°	1188.4	1555.4	1464.4	1408.3	1431.3	1411.0	1476.8	1563.8	1202.2	1048.3	875.0
22.5°	1159.6	1517.0	1423.5	1399.7	1430.2	1400.2	1434.9	1525.4	1171.2	1017.4	847.4
25°	1111.1	1452.5	1362.3	1384.6	1395.4	1384.6	1367.8	1458.2	1123.5	977.7	818.5
27.5°	1062.8	1384.5	1316.4	1331.4	1298.5	1323.9	1323.9	1384.7	1074.3	931.6	809.6
30°	1024.1	1337.2	1293.2	1271.4	1220.1	1260.6	1302.9	1337.5	1037.9	901.6	807.4
32.5°	973.3	1294.0	1270.1	1194.5	1161.6	1189.1	1280.8	1293.1	981.6	874.4	805.2
35°	887.5	1232.9	1228.4	1103.4	1069.7	1095.3	1238.0	1229.8	865.4	831.6	788.1
37.5°	772.4	1178.6	1148.6	1011.3	957.6	1004.5	1157.7	1172.7	727.9	792.4	748.1
40°	676.3	1141.9	1089.0	942.9	890.2	936.1	1095.9	1138.7	652.8	764.8	703.9
42.5°	622.2	1109.4	1026.0	870.4	544.6	859.3	1032.9	1105.2	606.5	729.3	665.3
45°	567.3	1050.4	934.4	481.8	305.0	458.9	935.8	1035.7	572.8	675.3	605.9
47.5°	543.2	977.8	838.6	290.2	257.5	281.8	837.8	961.9	543.5	621.3	549.3
50°	524.5	932.0	770.2	255.7	211.2	246.3	771.5	917.0	514.8	585.0	510.7
52.5°	493.6	877.4	671.9	211.9	182.5	206.8	655.6	860.2	485.0	545.5	462.1
55°	441.7	772.3	280.2	166.5	146.3	159.8	266.4	746.3	426.5	483.2	405.8
57.5°	386.7	657.4	196.5	129.6	113.5	128.3	195.2	631.1	379.6	409.2	353.9
60°	354.7	580.1	160.1	108.8	98.0	107.4	158.7	557.1	352.0	360.0	306.4
62.5°	322.7	501.6	132.5	95.7	92.5	94.4	132.2	476.4	317.7	318.3	215.9
65°	276.0	380.0	98.0	86.9	85.6	85.6	95.2	366.3	270.5	262.4	124.2
67.5°	228.6	272.8	78.7	80.0	78.7	78.7	77.3	265.1	223.0	209.3	93.9
70°	198.7	209.5	73.2	74.5	73.2	73.2	71.8	204.0	193.2	162.2	88.3
72.5°	170.0	143.1	67.6	67.9	67.6	67.6	66.2	134.3	164.5	114.0	80.6
75°	128.4	71.7	58.0	58.0	58.0	58.0	56.6	68.9	122.8	74.3	69.0
77.5°	89.2	47.3	48.0	47.8	47.8	46.7	46.7	46.9	83.9	51.3	55.8
80°	64.9	39.2	41.4	40.0	40.0	40.0	40.0	37.8	60.7	43.2	46.9
82.5°	46.1	31.3	33.7	32.3	32.3	32.3	32.3	30.9	42.0	35.2	38.1
85°	22.1	20.7	22.1	19.3	17.9	19.3	20.7	20.7	19.3	23.4	24.8
87.5°	6.6	10.7	10.5	9.1	9.1	9.1	9.4	9.6	5.5	11.7	11.6
90°	0.0	4.0	8.2	12.3	12.3	12.3	8.2	4.0	0.0	4.0	8.2
92.5°	9.9	13.9	18.1	25.6	28.8	25.6	18.1	13.9	9.9	13.9	18.1
95°	32.9	61.0	32.9	37.2	45.2	37.2	32.9	61.0	32.9	61.0	32.9
97.5°	58.4	117.1	241.8	71.3	61.7	71.3	241.8	117.1	58.4	117.1	241.8
100°	78.1	146.5	485.3	142.8	94.6	142.8	485.3	146.5	78.1	146.5	485.3
102.5°	97.9	169.5	656.4	376.9	206.5	376.9	656.4	169.5	97.9	169.5	656.4
105°	127.5	195.8	744.4	950.9	629.2	950.9	744.4	195.8	127.5	195.8	744.4
107.5°	157.1	208.6	710.6	1383.9	1296.3	1383.9	710.6	208.6	157.1	208.6	710.6
110°	176.8	225.1	690.9	1454.2	1562.8	1454.2	690.9	225.1	176.8	225.1	690.9

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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°	196.6	244.8	671.2	1413.1	1595.7	1413.1	671.2	244.8	196.6	244.8	671.2
115°	226.2	274.4	641.6	1333.5	1558.7	1333.5	641.6	274.4	226.2	274.4	641.6
117.5°	256.6	304.1	634.2	1247.3	1478.9	1247.3	634.2	304.1	256.6	304.1	634.2
120°	279.7	323.9	621.0	1181.7	1422.9	1181.7	621.0	323.9	279.7	323.9	621.0
122.5°	296.1	343.6	604.5	1125.3	1347.3	1125.3	604.5	343.6	296.1	343.6	604.5
125°	324.9	369.1	604.5	1057.2	1250.2	1057.2	604.5	369.1	324.9	369.1	604.5
127.5°	348.7	393.8	605.4	978.2	1168.8	978.2	605.4	393.8	348.7	393.8	605.4
130°	361.9	410.2	608.7	925.3	1106.3	925.3	608.7	410.2	361.9	410.2	608.7
132.5°	378.4	426.6	608.7	901.6	1050.3	901.6	608.7	426.6	378.4	426.6	608.7
135°	403.0	447.3	608.7	870.7	999.3	870.7	608.7	447.3	403.0	447.3	608.7
137.5°	423.6	471.0	608.7	836.5	946.7	836.5	608.7	471.0	423.6	471.0	608.7
140°	440.0	484.3	608.7	816.6	917.1	816.6	608.7	484.3	440.0	484.3	608.7
142.5°	456.5	497.5	611.9	793.4	887.5	793.4	611.9	497.5	456.5	497.5	611.9
145°	477.1	517.3	612.8	758.5	839.0	758.5	612.8	517.3	477.1	517.3	612.8
147.5°	501.7	537.1	617.7	733.4	795.4	733.4	617.7	537.1	501.7	537.1	617.7
150°	518.2	550.4	621.0	716.8	769.0	716.8	621.0	550.4	518.2	550.4	621.0
152.5°	534.6	563.6	621.0	703.4	746.0	703.4	621.0	563.6	534.6	563.6	621.0
155°	559.3	579.4	625.1	687.5	719.7	687.5	625.1	579.4	559.3	579.4	625.1
157.5°	579.0	598.3	630.0	677.5	700.8	677.5	630.0	598.3	579.0	598.3	630.0
160°	592.2	608.3	633.3	670.8	690.9	670.8	633.3	608.3	592.2	608.3	633.3
162.5°	602.1	618.2	636.6	667.4	681.0	667.4	636.6	618.2	602.1	618.2	636.6
165°	621.0	629.0	641.6	658.3	670.3	658.3	641.6	629.0	621.0	629.0	641.6
167.5°	631.7	638.9	645.7	654.1	661.3	654.1	645.7	638.9	631.7	638.9	645.7
170°	641.6	645.6	645.7	654.0	658.0	654.0	645.7	645.6	641.6	645.6	645.7
172.5°	644.8	652.1	649.0	650.7	654.7	650.7	649.0	652.1	644.8	652.1	649.0
175°	653.9	657.9	653.9	649.7	645.7	649.7	653.9	657.9	653.9	657.9	653.9
177.5°	653.9	657.1	653.9	653.8	650.6	653.8	653.9	657.1	653.9	657.1	653.9
180°	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7
2.5°	1268.4	1267.3	1269.5	1288.3	1326.6	1361.2
5°	1155.3	1159.4	1163.4	1195.3	1262.2	1354.0
7.5°	1068.4	1062.5	1071.7	1123.5	1205.7	1337.4
10°	1008.6	995.1	1008.6	1079.3	1175.1	1320.9
12.5°	952.2	935.5	956.6	1034.0	1149.8	1298.8
15°	879.6	895.7	886.3	973.0	1111.7	1260.1
17.5°	896.8	978.3	914.0	920.0	1073.8	1220.4
20°	937.7	1021.3	964.7	884.7	1049.4	1188.4
22.5°	974.8	1037.9	986.6	854.9	1025.0	1159.6
25°	1003.3	1057.2	1000.6	828.1	989.6	1111.1
27.5°	1004.7	1012.2	1005.2	825.9	945.9	1062.8
30°	986.1	953.7	983.4	828.1	914.8	1024.1
32.5°	933.0	896.3	921.7	823.7	883.4	973.3
35°	857.4	808.8	843.9	800.5	834.8	887.5
37.5°	777.6	716.0	764.6	754.7	793.4	772.4
40°	723.5	615.6	712.7	709.4	770.8	676.3
42.5°	654.3	562.6	644.6	673.0	745.8	622.2
45°	528.4	517.6	523.0	611.4	692.8	567.3
47.5°	483.2	475.9	480.5	555.4	632.9	543.2
50°	456.6	447.2	453.9	519.0	594.7	524.5
52.5°	419.8	394.2	417.1	469.3	555.1	493.6
55°	315.7	238.8	314.3	412.7	495.6	441.7
57.5°	185.3	138.0	181.2	359.1	419.9	386.7
60°	125.4	115.9	126.7	316.1	369.6	354.7
62.5°	114.5	111.5	114.8	220.0	324.6	322.7
65°	104.9	103.5	104.9	127.0	267.9	276.0
67.5°	94.9	93.6	96.0	97.4	211.6	228.6
70°	88.3	87.0	88.3	89.7	162.3	198.7
72.5°	80.6	79.2	80.6	82.0	114.2	170.0
75°	69.0	67.6	69.0	70.4	75.7	128.4
77.5°	55.8	55.8	57.1	57.1	53.0	89.2
80°	46.9	46.9	48.3	48.3	46.0	64.9
82.5°	38.1	37.0	39.4	40.6	38.0	46.1
85°	23.4	22.1	24.8	26.2	24.8	22.1
87.5°	11.3	10.2	12.4	13.8	12.8	6.6
90°	12.3	12.3	12.3	8.2	4.0	0.0
92.5°	25.6	28.8	25.6	18.1	13.9	9.9
95°	37.2	45.2	37.2	32.9	61.0	32.9
97.5°	71.3	61.7	71.3	241.8	117.1	58.4
100°	142.8	94.6	142.8	485.3	146.5	78.1
102.5°	376.9	206.5	376.9	656.4	169.5	97.9
105°	950.9	629.2	950.9	744.4	195.8	127.5
107.5°	1383.9	1296.3	1383.9	710.6	208.6	157.1
110°	1454.2	1562.8	1454.2	690.9	225.1	176.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1413.1	1595.7	1413.1	671.2	244.8	196.6
115°	1333.5	1558.7	1333.5	641.6	274.4	226.2
117.5°	1247.3	1478.9	1247.3	634.2	304.1	256.6
120°	1181.7	1422.9	1181.7	621.0	323.9	279.7
122.5°	1125.3	1347.3	1125.3	604.5	343.6	296.1
125°	1057.2	1250.2	1057.2	604.5	369.1	324.9
127.5°	978.2	1168.8	978.2	605.4	393.8	348.7
130°	925.3	1106.3	925.3	608.7	410.2	361.9
132.5°	901.6	1050.3	901.6	608.7	426.6	378.4
135°	870.7	999.3	870.7	608.7	447.3	403.0
137.5°	836.5	946.7	836.5	608.7	471.0	423.6
140°	816.6	917.1	816.6	608.7	484.3	440.0
142.5°	793.4	887.5	793.4	611.9	497.5	456.5
145°	758.5	839.0	758.5	612.8	517.3	477.1
147.5°	733.4	795.4	733.4	617.7	537.1	501.7
150°	716.8	769.0	716.8	621.0	550.4	518.2
152.5°	703.4	746.0	703.4	621.0	563.6	534.6
155°	687.5	719.7	687.5	625.1	579.4	559.3
157.5°	677.5	700.8	677.5	630.0	598.3	579.0
160°	670.8	690.9	670.8	633.3	608.3	592.2
162.5°	667.4	681.0	667.4	636.6	618.2	602.1
165°	658.3	670.3	658.3	641.6	629.0	621.0
167.5°	654.1	661.3	654.1	645.7	638.9	631.7
170°	654.0	658.0	654.0	645.7	645.6	641.6
172.5°	650.7	654.7	650.7	649.0	652.1	644.8
175°	649.7	645.7	649.7	653.9	657.9	653.9
177.5°	653.8	650.6	653.8	653.9	657.1	653.9
180°	653.9	653.9	653.9	653.9	653.9	653.9

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