

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: P621688

Luminaire Tested: VLT-FA-100U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621688  
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-930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

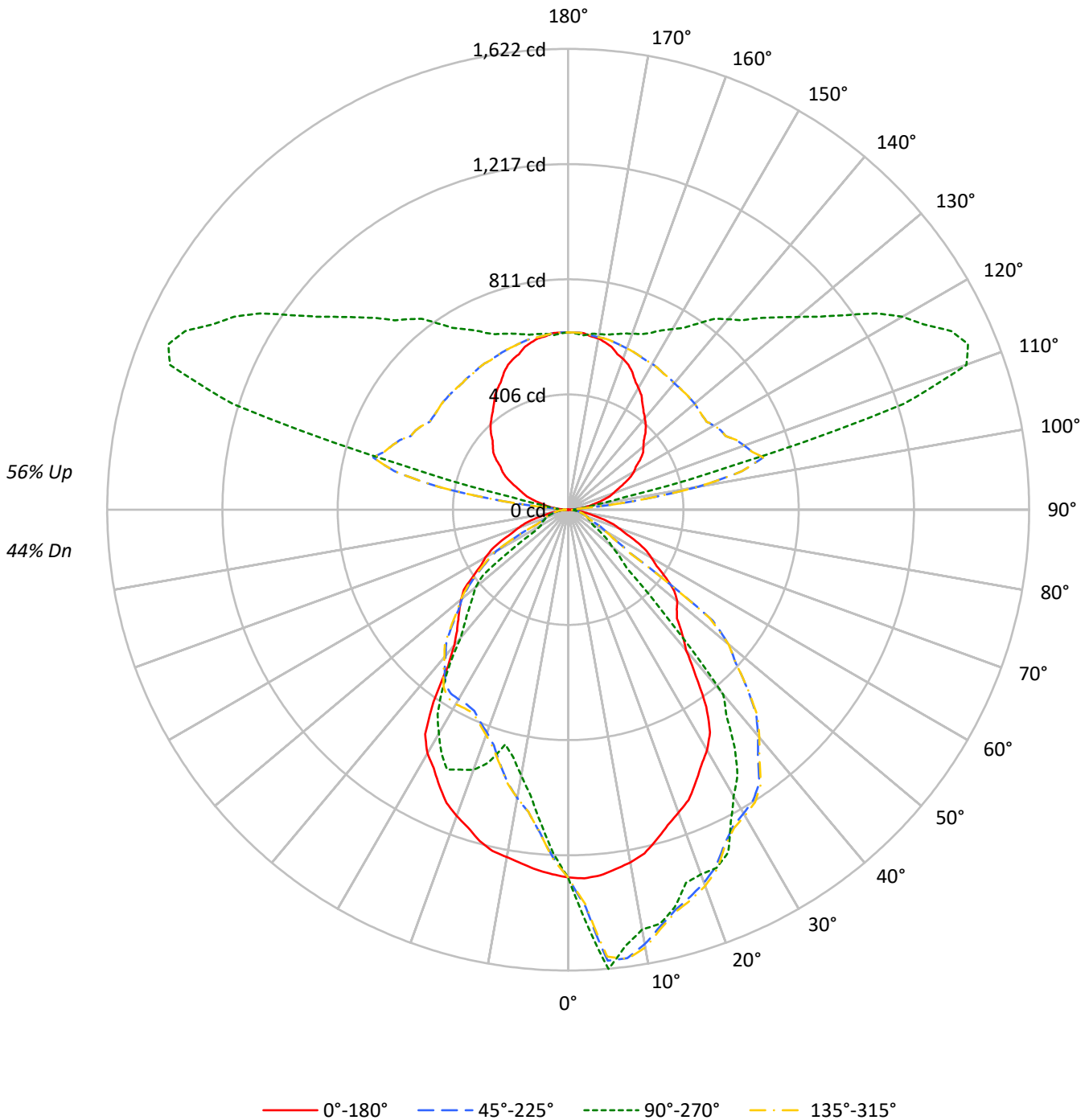
Lumens per Lamp: N/A  
Luminaire Lumens: 6022.7 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

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



TEST NUMBER: P621688  
CATALOG NUMBER: VLT-FA-100U-100D-930-UNV-STD-W-4

### 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	93	90	86	89	86	83	80	71	69	67	58	57	56	46	45	44	39				
2	89	82	77	72	82	76	71	67	63	60	57	52	50	48	42	40	39	34				
3	82	73	66	61	75	67	61	57	57	52	49	47	44	41	37	35	34	29				
4	75	65	58	52	69	60	54	49	51	46	42	42	39	36	34	32	30	26				
5	69	58	51	45	63	54	47	42	46	41	37	38	34	31	31	28	26	23				
6	64	52	45	39	58	49	42	37	41	36	32	35	31	28	28	25	23	20				
7	59	47	40	35	54	44	37	33	38	32	29	32	28	25	26	23	21	18				
8	55	43	36	31	50	40	34	29	34	29	26	29	25	22	24	21	19	17				
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	22	19	17	15				
10	48	36	29	25	44	34	28	23	29	24	21	25	21	18	21	18	16	14				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9290	9290	9290	9290
5°	9307	11687	9164	7969
10°	9184	10931	9049	6919
15°	8933	10763	8962	6350
20°	8659	10429	8760	7443
25°	8394	10543	8488	7987
30°	8097	9647	8207	7540
35°	7418	8942	7234	6761
40°	6045	7958	5835	5502
45°	5493	2954	5547	5012
50°	5587	2250	5484	4764
55°	5272	1747	5092	2850
60°	4858	1342	4819	1587
65°	4472	1387	4382	1678
70°	3978	1464	3869	1741
75°	3396	1533	3249	1788
80°	2558	1579	2393	1851
85°	1737	1408	1515	1737

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10172 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.9	2.1
10°-20°	342.1	5.7
20°-30°	511.9	8.5
30°-40°	582.2	9.7
40°-50°	497.9	8.3
50°-60°	335.8	5.6
60°-70°	173.3	2.9
70°-80°	78.2	1.3
80°-90°	24.7	0.4
90°-100°	76.7	1.3
100°-110°	546.7	9.1
110°-120°	742.1	12.3
120°-130°	604.0	10.0
130°-140°	485.8	8.1
140°-150°	383.0	6.4
150°-160°	280.1	4.6
160°-170°	173.9	2.9
170°-180°	59.3	1.0
0°-30°	978.9	16.3
0°-40°	1561.1	25.9
0°-60°	2394.7	39.8
0°-90°	2670.9	44.3
90°-120°	1365.5	22.7
90°-150°	2838.4	47.1
90°-180°	3352.0	55.7
0°-180°	6022.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1295	1295	1295	1295	1295	
5°	1292	1622	1272	1106	1292	122
15°	1202	1449	1206	855	1202	338
25°	1060	1332	1072	1009	1060	488
35°	847	1021	826	772	847	518
45°	541	291	547	494	541	429
55°	421	140	407	228	421	375
65°	263	82	258	99	263	260
75°	122	55	117	64	122	131
85°	21	17	18	21	21	27
90°	0	12	0	12	0	2
95°	31	43	31	43	31	35
105°	122	600	122	600	122	128
115°	216	1487	216	1487	216	214
125°	310	1193	310	1193	310	275
135°	385	954	385	954	385	296
145°	455	800	455	800	455	286
155°	534	687	534	687	534	245
165°	593	640	593	640	593	166
175°	624	616	624	616	624	59
180°	624	624	624	624	624	



TEST NUMBER: P621688

CATALOG NUMBER: VLT-FA-100U-100D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1298.8	1343.1	1398.9	1437.2	1453.7	1437.2	1389.4	1342.8	1284.1	1266.6	1225.1
5°	1292.0	1428.5	1593.6	1613.5	1622.5	1613.5	1579.1	1420.3	1272.2	1209.1	1140.5
7.5°	1276.2	1514.9	1591.7	1547.2	1547.5	1555.7	1594.1	1507.5	1255.6	1156.5	1072.3
10°	1260.4	1563.0	1552.7	1488.5	1500.1	1494.9	1564.6	1553.6	1241.9	1127.3	1031.2
12.5°	1239.3	1578.0	1501.1	1480.1	1492.7	1485.5	1508.8	1569.8	1230.3	1106.5	983.8
15°	1202.4	1556.5	1457.9	1448.7	1448.7	1455.1	1464.5	1563.1	1206.4	1068.6	925.8
17.5°	1164.5	1513.7	1427.9	1382.2	1377.3	1385.8	1438.7	1524.7	1172.4	1026.6	869.7
20°	1133.9	1484.2	1397.3	1343.8	1365.7	1346.4	1409.2	1492.2	1147.1	1000.3	835.0
22.5°	1106.5	1447.5	1358.4	1335.6	1364.7	1336.1	1369.2	1455.5	1117.6	970.8	808.6
25°	1060.2	1386.0	1299.9	1321.2	1331.5	1321.2	1305.1	1391.4	1072.0	933.0	781.0
27.5°	1014.1	1321.1	1256.2	1270.5	1239.0	1263.2	1263.3	1321.3	1025.2	888.9	772.6
30°	977.2	1276.0	1234.0	1213.2	1164.2	1202.9	1243.2	1276.3	990.4	860.3	770.4
32.5°	928.7	1234.7	1211.9	1139.8	1108.4	1134.7	1222.2	1233.9	936.6	834.4	768.3
35°	846.8	1176.5	1172.1	1052.9	1020.7	1045.1	1181.3	1173.4	825.8	793.6	752.0
37.5°	737.0	1124.6	1096.0	965.0	913.7	958.5	1104.7	1119.0	694.6	756.1	713.8
40°	645.3	1089.6	1039.1	899.7	849.5	893.2	1045.7	1086.5	622.9	729.8	671.7
42.5°	593.7	1058.6	979.1	830.5	519.7	820.0	985.6	1054.6	578.7	695.9	634.8
45°	541.3	1002.3	891.6	459.7	291.1	437.9	892.9	988.2	546.6	644.4	578.2
47.5°	518.4	933.0	800.2	276.9	245.8	268.9	799.4	917.8	518.6	592.8	524.2
50°	500.5	889.4	734.9	244.0	201.5	235.0	736.2	875.0	491.2	558.2	487.3
52.5°	471.0	837.2	641.1	202.2	174.1	197.3	625.6	820.8	462.8	520.5	440.9
55°	421.4	736.9	267.4	158.9	139.6	152.5	254.2	712.1	407.0	461.0	387.2
57.5°	369.0	627.3	187.5	123.7	108.3	122.4	186.2	602.2	362.2	390.5	337.7
60°	338.5	553.5	152.8	103.8	93.5	102.5	151.5	531.6	335.8	343.6	292.4
62.5°	307.9	478.7	126.4	91.3	88.2	90.0	126.2	454.6	303.2	303.7	206.0
65°	263.4	362.6	93.5	82.9	81.7	81.7	90.9	349.6	258.1	250.4	118.5
67.5°	218.1	260.3	75.1	76.4	75.1	75.1	73.8	253.0	212.8	199.7	89.6
70°	189.6	199.9	69.8	71.1	69.8	69.8	68.5	194.7	184.4	154.8	84.3
72.5°	162.3	136.5	64.5	64.8	64.5	64.5	63.2	128.1	157.0	108.8	76.9
75°	122.5	68.4	55.3	55.3	55.3	55.3	54.0	65.7	117.2	70.9	65.8
77.5°	85.1	45.2	45.8	45.6	45.6	44.5	44.5	44.8	80.1	48.9	53.2
80°	61.9	37.4	39.5	38.2	38.2	38.2	38.2	36.1	57.9	41.2	44.8
82.5°	44.0	29.8	32.1	30.8	30.8	30.8	30.8	29.5	40.0	33.6	36.3
85°	21.1	19.8	21.1	18.4	17.1	18.4	19.8	19.7	18.4	22.3	23.7
87.5°	6.3	10.2	10.0	8.7	8.7	8.7	8.9	9.1	5.3	11.2	11.1
90°	0.0	3.8	7.8	11.8	11.8	11.8	7.8	3.8	0.0	3.8	7.8
92.5°	9.4	13.3	17.3	24.4	27.5	24.4	17.3	13.3	9.4	13.3	17.3
95°	31.4	58.3	31.4	35.5	43.2	35.5	31.4	58.3	31.4	58.3	31.4
97.5°	55.7	111.7	230.7	68.1	58.9	68.1	230.7	111.7	55.7	111.7	230.7
100°	74.6	139.8	463.1	136.3	90.3	136.3	463.1	139.8	74.6	139.8	463.1
102.5°	93.4	161.7	626.3	359.7	197.0	359.7	626.3	161.7	93.4	161.7	626.3
105°	121.7	186.9	710.3	907.4	600.4	907.4	710.3	186.9	121.7	186.9	710.3
107.5°	149.9	199.0	678.1	1320.6	1236.9	1320.6	678.1	199.0	149.9	199.0	678.1
110°	168.7	214.8	659.3	1387.6	1491.2	1387.6	659.3	214.8	168.7	214.8	659.3



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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°	187.6	233.6	640.4	1348.4	1522.6	1348.4	640.4	233.6	187.6	233.6	640.4
115°	215.8	261.9	612.2	1272.4	1487.3	1272.4	612.2	261.9	215.8	261.9	612.2
117.5°	244.9	290.1	605.1	1190.1	1411.2	1190.1	605.1	290.1	244.9	290.1	605.1
120°	266.8	309.1	592.6	1127.6	1357.8	1127.6	592.6	309.1	266.8	309.1	592.6
122.5°	282.5	327.8	576.9	1073.8	1285.6	1073.8	576.9	327.8	282.5	327.8	576.9
125°	310.0	352.2	576.9	1008.8	1193.0	1008.8	576.9	352.2	310.0	352.2	576.9
127.5°	332.8	375.7	577.6	933.4	1115.3	933.4	577.6	375.7	332.8	375.7	577.6
130°	345.3	391.4	580.8	883.0	1055.6	883.0	580.8	391.4	345.3	391.4	580.8
132.5°	361.0	407.1	580.8	860.3	1002.2	860.3	580.8	407.1	361.0	407.1	580.8
135°	384.6	426.8	580.8	830.8	953.6	830.8	580.8	426.8	384.6	426.8	580.8
137.5°	404.2	449.5	580.8	798.2	903.4	798.2	580.8	449.5	404.2	449.5	580.8
140°	419.9	462.1	580.8	779.2	875.1	779.2	580.8	462.1	419.9	462.1	580.8
142.5°	435.6	474.7	583.9	757.1	846.8	757.1	583.9	474.7	435.6	474.7	583.9
145°	455.2	493.6	584.7	723.8	800.5	723.8	584.7	493.6	455.2	493.6	584.7
147.5°	478.8	512.5	589.4	699.9	758.9	699.9	589.4	512.5	478.8	512.5	589.4
150°	494.5	525.1	592.6	683.9	733.8	683.9	592.6	525.1	494.5	525.1	592.6
152.5°	510.1	537.8	592.6	671.2	711.9	671.2	592.6	537.8	510.1	537.8	592.6
155°	533.7	552.9	596.5	656.0	686.7	656.0	596.5	552.9	533.7	552.9	596.5
157.5°	552.5	570.9	601.2	646.4	668.7	646.4	601.2	570.9	552.5	570.9	601.2
160°	565.1	580.4	604.3	640.1	659.3	640.1	604.3	580.4	565.1	580.4	604.3
162.5°	574.5	589.9	607.5	636.8	649.9	636.8	607.5	589.9	574.5	589.9	607.5
165°	592.6	600.2	612.2	628.1	639.6	628.1	612.2	600.2	592.6	600.2	612.2
167.5°	602.8	609.7	616.1	624.1	631.0	624.1	616.1	609.7	602.8	609.7	616.1
170°	612.2	616.0	616.1	624.0	627.9	624.0	616.1	616.0	612.2	616.0	616.1
172.5°	615.3	622.2	619.2	620.9	624.7	620.9	619.2	622.2	615.3	622.2	619.2
175°	624.0	627.8	624.0	619.9	616.1	619.9	624.0	627.8	624.0	627.8	624.0
177.5°	624.0	627.0	624.0	623.9	620.8	623.9	624.0	627.0	624.0	627.0	624.0
180°	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1210.3	1209.3	1211.3	1229.3	1265.9	1298.8
5°	1102.4	1106.3	1110.1	1140.5	1204.4	1292.0
7.5°	1019.5	1013.8	1022.6	1072.0	1150.5	1276.2
10°	962.4	949.6	962.4	1029.9	1121.3	1260.4
12.5°	908.6	892.7	912.7	986.7	1097.1	1239.3
15°	839.3	854.7	845.7	928.5	1060.8	1202.4
17.5°	855.7	933.5	872.2	877.9	1024.6	1164.5
20°	894.7	974.6	920.5	844.2	1001.3	1133.9
22.5°	930.1	990.4	941.4	815.7	978.0	1106.5
25°	957.3	1008.8	954.7	790.2	944.3	1060.2
27.5°	958.7	965.9	959.2	788.1	902.6	1014.1
30°	941.0	910.0	938.4	790.2	872.9	977.2
32.5°	890.3	855.3	879.5	786.0	843.0	928.7
35°	818.1	771.8	805.2	763.9	796.6	846.8
37.5°	742.0	683.3	729.6	720.1	757.1	737.0
40°	690.4	587.4	680.1	676.9	735.5	645.3
42.5°	624.4	536.8	615.1	642.2	711.7	593.7
45°	504.2	493.9	499.0	583.4	661.0	541.3
47.5°	461.1	454.1	458.5	530.0	603.9	518.4
50°	435.7	426.7	433.1	495.2	567.4	500.5
52.5°	400.6	376.1	398.0	447.8	529.7	471.0
55°	301.2	227.8	300.0	393.8	472.9	421.4
57.5°	176.8	131.7	172.9	342.7	400.7	369.0
60°	119.6	110.6	120.9	301.6	352.6	338.5
62.5°	109.2	106.4	109.5	209.9	309.7	307.9
65°	100.1	98.8	100.1	121.2	255.7	263.4
67.5°	90.6	89.3	91.6	93.0	201.9	218.1
70°	84.3	83.0	84.3	85.6	154.9	189.6
72.5°	76.9	75.6	76.9	78.2	108.9	162.3
75°	65.8	64.5	65.8	67.2	72.3	122.5
77.5°	53.2	53.2	54.5	54.5	50.6	85.1
80°	44.8	44.8	46.1	46.1	43.9	61.9
82.5°	36.3	35.3	37.6	38.7	36.3	44.0
85°	22.4	21.1	23.6	25.0	23.6	21.1
87.5°	10.8	9.7	11.8	13.2	12.2	6.3
90°	11.8	11.8	11.8	7.8	3.8	0.0
92.5°	24.4	27.5	24.4	17.3	13.3	9.4
95°	35.5	43.2	35.5	31.4	58.3	31.4
97.5°	68.1	58.9	68.1	230.7	111.7	55.7
100°	136.3	90.3	136.3	463.1	139.8	74.6
102.5°	359.7	197.0	359.7	626.3	161.7	93.4
105°	907.4	600.4	907.4	710.3	186.9	121.7
107.5°	1320.6	1236.9	1320.6	678.1	199.0	149.9
110°	1387.6	1491.2	1387.6	659.3	214.8	168.7





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1348.4	1522.6	1348.4	640.4	233.6	187.6
115°	1272.4	1487.3	1272.4	612.2	261.9	215.8
117.5°	1190.1	1411.2	1190.1	605.1	290.1	244.9
120°	1127.6	1357.8	1127.6	592.6	309.1	266.8
122.5°	1073.8	1285.6	1073.8	576.9	327.8	282.5
125°	1008.8	1193.0	1008.8	576.9	352.2	310.0
127.5°	933.4	1115.3	933.4	577.6	375.7	332.8
130°	883.0	1055.6	883.0	580.8	391.4	345.3
132.5°	860.3	1002.2	860.3	580.8	407.1	361.0
135°	830.8	953.6	830.8	580.8	426.8	384.6
137.5°	798.2	903.4	798.2	580.8	449.5	404.2
140°	779.2	875.1	779.2	580.8	462.1	419.9
142.5°	757.1	846.8	757.1	583.9	474.7	435.6
145°	723.8	800.5	723.8	584.7	493.6	455.2
147.5°	699.9	758.9	699.9	589.4	512.5	478.8
150°	683.9	733.8	683.9	592.6	525.1	494.5
152.5°	671.2	711.9	671.2	592.6	537.8	510.1
155°	656.0	686.7	656.0	596.5	552.9	533.7
157.5°	646.4	668.7	646.4	601.2	570.9	552.5
160°	640.1	659.3	640.1	604.3	580.4	565.1
162.5°	636.8	649.9	636.8	607.5	589.9	574.5
165°	628.1	639.6	628.1	612.2	600.2	592.6
167.5°	624.1	631.0	624.1	616.1	609.7	602.8
170°	624.0	627.9	624.0	616.1	616.0	612.2
172.5°	620.9	624.7	620.9	619.2	622.2	615.3
175°	619.9	616.1	619.9	624.0	627.8	624.0
177.5°	623.9	620.8	623.9	624.0	627.0	624.0
180°	624.0	624.0	624.0	624.0	624.0	624.0

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