

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: P621712

Luminaire Tested: VLT-FA-125U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621712  
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-125U-100D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

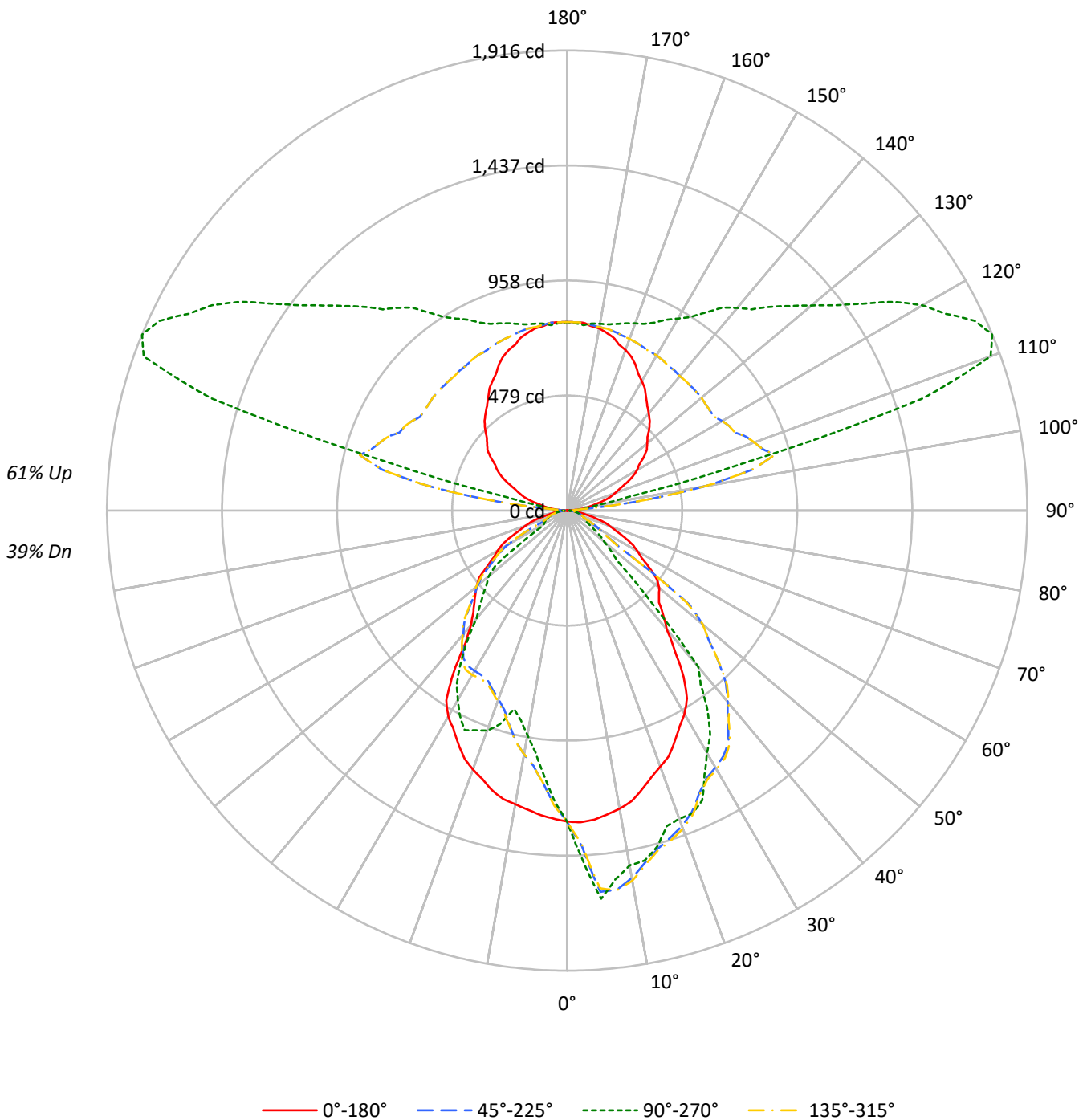
Lumens per Lamp: N/A  
Luminaire Lumens: 6888.4 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P621712  
CATALOG NUMBER: VLT-FA-125U-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	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	84	81	78	68	66	65	54	53	52	41	41	40	34
2	88	81	75	71	80	74	69	65	61	57	54	49	46	44	37	36	35	30
3	81	72	65	59	73	66	60	55	54	50	46	43	41	38	34	32	30	26
4	74	64	56	51	67	58	52	47	48	44	40	39	36	33	30	28	26	23
5	68	57	49	44	62	52	46	41	44	39	35	35	32	29	28	25	23	20
6	63	51	44	38	57	47	40	36	39	34	31	32	28	26	25	23	21	18
7	58	46	39	34	53	43	36	31	36	31	27	29	26	23	23	21	19	16
8	54	42	35	30	49	39	32	28	33	28	24	27	23	20	21	19	17	14
9	50	39	31	27	46	36	29	25	30	25	22	25	21	18	20	17	15	13
10	47	35	28	24	43	33	27	22	28	23	20	23	19	17	18	16	14	12

**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	1.8
10°-20°	342.1	5.0
20°-30°	511.9	7.4
30°-40°	582.2	8.5
40°-50°	497.9	7.2
50°-60°	335.8	4.9
60°-70°	173.3	2.5
70°-80°	78.2	1.1
80°-90°	25.1	0.4
90°-100°	96.5	1.4
100°-110°	687.8	10.0
110°-120°	933.8	13.6
120°-130°	760.0	11.0
130°-140°	611.2	8.9
140°-150°	481.9	7.0
150°-160°	352.4	5.1
160°-170°	218.9	3.2
170°-180°	74.6	1.1
0°-30°	978.9	14.2
0°-40°	1561.1	22.7
0°-60°	2394.7	34.8
0°-90°	2671.3	38.8
90°-120°	1718.1	24.9
90°-150°	3571.3	51.8
90°-180°	4217.0	61.2
0°-180°	6888.4	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	15	0	15	0	2
95°	40	54	40	54	40	44
105°	153	755	153	755	153	161
115°	272	1871	272	1871	272	270
125°	390	1501	390	1501	390	347
135°	484	1200	484	1200	484	372
145°	573	1007	573	1007	573	360
155°	672	864	672	864	672	308
165°	746	805	746	805	746	209
175°	785	775	785	775	785	74
180°	785	785	785	785	785	



TEST NUMBER: P621712

CATALOG NUMBER: VLT-FA-125U-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	10.4	10.4	9.3	9.3	9.3	9.4	9.3	5.3	11.4	11.5
90°	0.0	4.8	9.9	14.8	14.8	14.8	9.9	4.8	0.0	4.8	9.9
92.5°	11.8	16.7	21.7	30.7	34.6	30.7	21.7	16.7	11.8	16.7	21.7
95°	39.5	73.3	39.5	44.7	54.3	44.7	39.5	73.3	39.5	73.3	39.5
97.5°	70.1	140.6	290.3	85.6	74.1	85.6	290.3	140.6	70.1	140.6	290.3
100°	93.8	175.9	582.6	171.5	113.6	171.5	582.6	175.9	93.8	175.9	582.6
102.5°	117.5	203.4	788.0	452.6	247.9	452.6	788.0	203.4	117.5	203.4	788.0
105°	153.1	235.1	893.7	1141.7	755.4	1141.7	893.7	235.1	153.1	235.1	893.7
107.5°	188.6	250.4	853.2	1661.5	1556.3	1661.5	853.2	250.4	188.6	250.4	853.2
110°	212.3	270.2	829.5	1745.9	1876.2	1745.9	829.5	270.2	212.3	270.2	829.5



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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°	236.0	293.9	805.8	1696.6	1915.7	1696.6	805.8	293.9	236.0	293.9	805.8
115°	271.6	329.5	770.2	1600.9	1871.3	1600.9	770.2	329.5	271.6	329.5	770.2
117.5°	308.1	365.1	761.4	1497.4	1775.5	1497.4	761.4	365.1	308.1	365.1	761.4
120°	335.7	388.9	745.6	1418.7	1708.4	1418.7	745.6	388.9	335.7	388.9	745.6
122.5°	355.5	412.5	725.8	1351.0	1617.5	1351.0	725.8	412.5	355.5	412.5	725.8
125°	390.1	443.2	725.8	1269.3	1501.0	1269.3	725.8	443.2	390.1	443.2	725.8
127.5°	418.7	472.8	726.8	1174.4	1403.2	1174.4	726.8	472.8	418.7	472.8	726.8
130°	434.5	492.4	730.7	1110.9	1328.2	1110.9	730.7	492.4	434.5	492.4	730.7
132.5°	454.2	512.2	730.7	1082.4	1261.0	1082.4	730.7	512.2	454.2	512.2	730.7
135°	483.9	537.0	730.7	1045.3	1199.8	1045.3	730.7	537.0	483.9	537.0	730.7
137.5°	508.6	565.5	730.7	1004.3	1136.6	1004.3	730.7	565.5	508.6	565.5	730.7
140°	528.3	581.4	730.7	980.4	1101.1	980.4	730.7	581.4	528.3	581.4	730.7
142.5°	548.1	597.3	734.7	952.5	1065.5	952.5	734.7	597.3	548.1	597.3	734.7
145°	572.7	621.0	735.7	910.7	1007.2	910.7	735.7	621.0	572.7	621.0	735.7
147.5°	602.4	644.9	741.6	880.6	954.9	880.6	741.6	644.9	602.4	644.9	741.6
150°	622.1	660.7	745.6	860.5	923.3	860.5	745.6	660.7	622.1	660.7	745.6
152.5°	641.9	676.6	745.6	844.5	895.7	844.5	745.6	676.6	641.9	676.6	745.6
155°	671.5	695.6	750.5	825.4	864.1	825.4	750.5	695.6	671.5	695.6	750.5
157.5°	695.2	718.4	756.4	813.3	841.3	813.3	756.4	718.4	695.2	718.4	756.4
160°	711.0	730.3	760.4	805.4	829.5	805.4	760.4	730.3	711.0	730.3	760.4
162.5°	722.8	742.2	764.3	801.2	817.6	801.2	764.3	742.2	722.8	742.2	764.3
165°	745.6	755.2	770.2	790.3	804.8	790.3	770.2	755.2	745.6	755.2	770.2
167.5°	758.4	767.1	775.2	785.3	793.9	785.3	775.2	767.1	758.4	767.1	775.2
170°	770.2	775.1	775.2	785.2	790.0	785.2	775.2	775.1	770.2	775.1	775.2
172.5°	774.2	782.9	779.1	781.2	786.0	781.2	779.1	782.9	774.2	782.9	779.1
175°	785.1	789.9	785.1	780.0	775.2	780.0	785.1	789.9	785.1	789.9	785.1
177.5°	785.1	788.9	785.1	785.0	781.1	785.0	785.1	788.9	785.1	788.9	785.1
180°	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1



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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°	11.4	10.3	12.4	13.6	12.4	6.3
90°	14.8	14.8	14.8	9.9	4.8	0.0
92.5°	30.7	34.6	30.7	21.7	16.7	11.8
95°	44.7	54.3	44.7	39.5	73.3	39.5
97.5°	85.6	74.1	85.6	290.3	140.6	70.1
100°	171.5	113.6	171.5	582.6	175.9	93.8
102.5°	452.6	247.9	452.6	788.0	203.4	117.5
105°	1141.7	755.4	1141.7	893.7	235.1	153.1
107.5°	1661.5	1556.3	1661.5	853.2	250.4	188.6
110°	1745.9	1876.2	1745.9	829.5	270.2	212.3





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1696.6	1915.7	1696.6	805.8	293.9	236.0
115°	1600.9	1871.3	1600.9	770.2	329.5	271.6
117.5°	1497.4	1775.5	1497.4	761.4	365.1	308.1
120°	1418.7	1708.4	1418.7	745.6	388.9	335.7
122.5°	1351.0	1617.5	1351.0	725.8	412.5	355.5
125°	1269.3	1501.0	1269.3	725.8	443.2	390.1
127.5°	1174.4	1403.2	1174.4	726.8	472.8	418.7
130°	1110.9	1328.2	1110.9	730.7	492.4	434.5
132.5°	1082.4	1261.0	1082.4	730.7	512.2	454.2
135°	1045.3	1199.8	1045.3	730.7	537.0	483.9
137.5°	1004.3	1136.6	1004.3	730.7	565.5	508.6
140°	980.4	1101.1	980.4	730.7	581.4	528.3
142.5°	952.5	1065.5	952.5	734.7	597.3	548.1
145°	910.7	1007.2	910.7	735.7	621.0	572.7
147.5°	880.6	954.9	880.6	741.6	644.9	602.4
150°	860.5	923.3	860.5	745.6	660.7	622.1
152.5°	844.5	895.7	844.5	745.6	676.6	641.9
155°	825.4	864.1	825.4	750.5	695.6	671.5
157.5°	813.3	841.3	813.3	756.4	718.4	695.2
160°	805.4	829.5	805.4	760.4	730.3	711.0
162.5°	801.2	817.6	801.2	764.3	742.2	722.8
165°	790.3	804.8	790.3	770.2	755.2	745.6
167.5°	785.3	793.9	785.3	775.2	767.1	758.4
170°	785.2	790.0	785.2	775.2	775.1	770.2
172.5°	781.2	786.0	781.2	779.1	782.9	774.2
175°	780.0	775.2	780.0	785.1	789.9	785.1
177.5°	785.0	781.1	785.0	785.1	788.9	785.1
180°	785.1	785.1	785.1	785.1	785.1	785.1

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