

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P621640

Luminaire Tested: VLT-FA-075U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621640  
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-075U-100D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

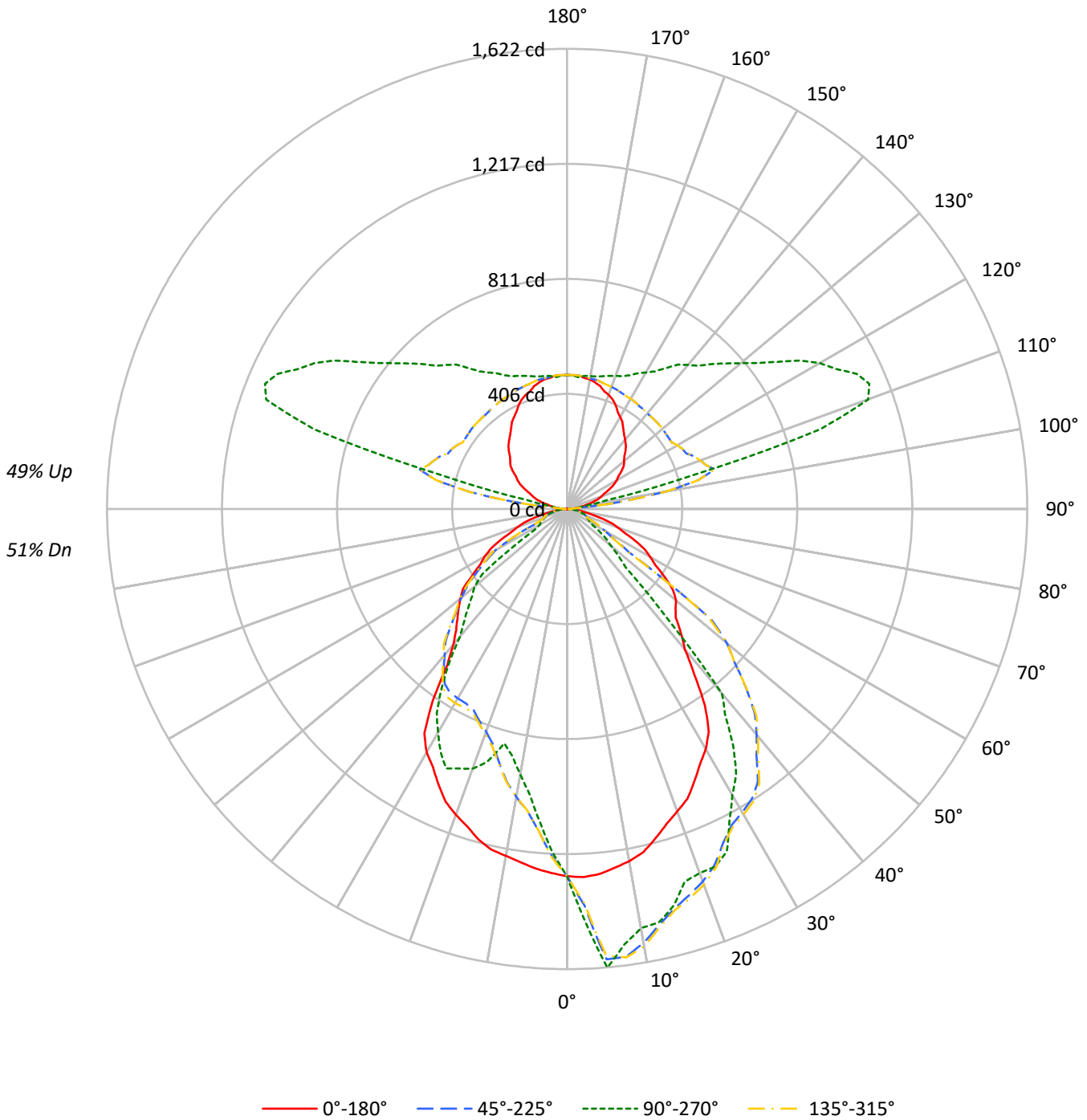
Lumens per Lamp: N/A  
Luminaire Lumens: 5208.3 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 50  
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: P621640  
CATALOG NUMBER: VLT-FA-075U-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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				51
1	99	95	91	88	91	88	85	82	75	73	71	63	62	60	52	51	50				45	
2	91	84	78	73	84	78	73	69	67	63	60	56	54	52	47	45	44				39	
3	83	74	68	62	77	69	63	59	60	55	51	51	47	45	42	40	38				34	
4	77	66	59	53	71	62	55	50	53	48	45	46	42	39	38	36	33				30	
5	71	60	52	46	65	56	49	44	48	43	39	41	37	34	35	32	30				26	
6	65	54	46	40	60	50	43	38	44	38	34	38	33	30	32	29	26				24	
7	61	49	41	36	56	46	39	34	40	34	30	34	30	27	29	26	24				21	
8	56	44	37	32	52	42	35	30	36	31	27	32	27	24	27	24	21				19	
9	52	41	33	29	49	38	32	27	34	28	25	29	25	22	25	22	19				17	
10	49	37	30	26	46	35	29	25	31	26	22	27	23	20	23	20	18				16	

**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	2.4
10°-20°	342.1	6.6
20°-30°	511.9	9.8
30°-40°	582.2	11.2
40°-50°	497.9	9.6
50°-60°	335.8	6.4
60°-70°	173.3	3.3
70°-80°	78.2	1.5
80°-90°	24.3	0.5
90°-100°	58.1	1.1
100°-110°	413.9	7.9
110°-120°	561.9	10.8
120°-130°	457.3	8.8
130°-140°	367.8	7.1
140°-150°	290.0	5.6
150°-160°	212.0	4.1
160°-170°	131.7	2.5
170°-180°	44.9	0.9
0°-30°	978.9	18.8
0°-40°	1561.1	30.0
0°-60°	2394.7	46.0
0°-90°	2670.6	51.3
90°-120°	1033.9	19.9
90°-150°	2149.1	41.3
90°-180°	2538.0	48.7
0°-180°	5208.3	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	9	0	9	0	2
95°	24	33	24	33	24	27
105°	92	455	92	455	92	97
115°	163	1126	163	1126	163	162
125°	235	903	235	903	235	209
135°	291	722	291	722	291	224
145°	345	606	345	606	345	216
155°	404	520	404	520	404	186
165°	449	484	449	484	449	126
175°	472	466	472	466	472	45
180°	472	472	472	472	472	



TEST NUMBER: P621640

CATALOG NUMBER: VLT-FA-075U-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	10.0	9.6	8.1	8.1	8.1	8.6	8.9	5.3	11.0	10.7
90°	0.0	2.9	5.9	8.9	8.9	8.9	5.9	2.9	0.0	2.9	5.9
92.5°	7.1	10.0	13.1	18.5	20.8	18.5	13.1	10.0	7.1	10.0	13.1
95°	23.8	44.1	23.8	26.9	32.7	26.9	23.8	44.1	23.8	44.1	23.8
97.5°	42.2	84.6	174.7	51.5	44.6	51.5	174.7	84.6	42.2	84.6	174.7
100°	56.5	105.8	350.6	103.2	68.3	103.2	350.6	105.8	56.5	105.8	350.6
102.5°	70.7	122.4	474.2	272.3	149.2	272.3	474.2	122.4	70.7	122.4	474.2
105°	92.1	141.5	537.8	687.0	454.6	687.0	537.8	141.5	92.1	141.5	537.8
107.5°	113.5	150.7	513.4	999.9	936.5	999.9	513.4	150.7	113.5	150.7	513.4
110°	127.8	162.6	499.2	1050.6	1129.1	1050.6	499.2	162.6	127.8	162.6	499.2



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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°	142.0	176.9	484.9	1020.9	1152.8	1020.9	484.9	176.9	142.0	176.9	484.9
115°	163.4	198.3	463.5	963.4	1126.1	963.4	463.5	198.3	163.4	198.3	463.5
117.5°	185.4	219.7	458.2	901.1	1068.4	901.1	458.2	219.7	185.4	219.7	458.2
120°	202.0	234.0	448.7	853.7	1028.0	853.7	448.7	234.0	202.0	234.0	448.7
122.5°	213.9	248.2	436.8	813.0	973.4	813.0	436.8	248.2	213.9	248.2	436.8
125°	234.7	266.7	436.8	763.8	903.2	763.8	436.8	266.7	234.7	266.7	436.8
127.5°	252.0	284.5	437.4	706.7	844.4	706.7	437.4	284.5	252.0	284.5	437.4
130°	261.5	296.3	439.7	668.5	799.3	668.5	439.7	296.3	261.5	296.3	439.7
132.5°	273.4	308.2	439.7	651.4	758.8	651.4	439.7	308.2	273.4	308.2	439.7
135°	291.2	323.1	439.7	629.0	722.0	629.0	439.7	323.1	291.2	323.1	439.7
137.5°	306.0	340.3	439.7	604.4	684.0	604.4	439.7	340.3	306.0	340.3	439.7
140°	317.9	349.9	439.7	589.9	662.6	589.9	439.7	349.9	317.9	349.9	439.7
142.5°	329.8	359.4	442.1	573.2	641.2	573.2	442.1	359.4	329.8	359.4	442.1
145°	344.7	373.7	442.7	548.0	606.1	548.0	442.7	373.7	344.7	373.7	442.7
147.5°	362.5	388.1	446.3	529.9	574.6	529.9	446.3	388.1	362.5	388.1	446.3
150°	374.4	397.6	448.7	517.8	555.6	517.8	448.7	397.6	374.4	397.6	448.7
152.5°	386.3	407.2	448.7	508.2	539.0	508.2	448.7	407.2	386.3	407.2	448.7
155°	404.1	418.6	451.6	496.7	520.0	496.7	451.6	418.6	404.1	418.6	451.6
157.5°	418.3	432.3	455.2	489.4	506.3	489.4	455.2	432.3	418.3	432.3	455.2
160°	427.9	439.5	457.6	484.6	499.2	484.6	457.6	439.5	427.9	439.5	457.6
162.5°	435.0	446.6	459.9	482.2	492.0	482.2	459.9	446.6	435.0	446.6	459.9
165°	448.7	454.5	463.5	475.6	484.3	475.6	463.5	454.5	448.7	454.5	463.5
167.5°	456.4	461.6	466.5	472.5	477.8	472.5	466.5	461.6	456.4	461.6	466.5
170°	463.5	466.4	466.5	472.5	475.4	472.5	466.5	466.4	463.5	466.4	466.5
172.5°	465.9	471.1	468.9	470.1	473.0	470.1	468.9	471.1	465.9	471.1	468.9
175°	472.4	475.3	472.4	469.4	466.5	469.4	472.4	475.3	472.4	475.3	472.4
177.5°	472.4	474.7	472.4	472.4	470.0	472.4	472.4	474.7	472.4	474.7	472.4
180°	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4



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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°	10.2	9.2	11.2	12.8	12.1	6.3
90°	8.9	8.9	8.9	5.9	2.9	0.0
92.5°	18.5	20.8	18.5	13.1	10.0	7.1
95°	26.9	32.7	26.9	23.8	44.1	23.8
97.5°	51.5	44.6	51.5	174.7	84.6	42.2
100°	103.2	68.3	103.2	350.6	105.8	56.5
102.5°	272.3	149.2	272.3	474.2	122.4	70.7
105°	687.0	454.6	687.0	537.8	141.5	92.1
107.5°	999.9	936.5	999.9	513.4	150.7	113.5
110°	1050.6	1129.1	1050.6	499.2	162.6	127.8





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1020.9	1152.8	1020.9	484.9	176.9	142.0
115°	963.4	1126.1	963.4	463.5	198.3	163.4
117.5°	901.1	1068.4	901.1	458.2	219.7	185.4
120°	853.7	1028.0	853.7	448.7	234.0	202.0
122.5°	813.0	973.4	813.0	436.8	248.2	213.9
125°	763.8	903.2	763.8	436.8	266.7	234.7
127.5°	706.7	844.4	706.7	437.4	284.5	252.0
130°	668.5	799.3	668.5	439.7	296.3	261.5
132.5°	651.4	758.8	651.4	439.7	308.2	273.4
135°	629.0	722.0	629.0	439.7	323.1	291.2
137.5°	604.4	684.0	604.4	439.7	340.3	306.0
140°	589.9	662.6	589.9	439.7	349.9	317.9
142.5°	573.2	641.2	573.2	442.1	359.4	329.8
145°	548.0	606.1	548.0	442.7	373.7	344.7
147.5°	529.9	574.6	529.9	446.3	388.1	362.5
150°	517.8	555.6	517.8	448.7	397.6	374.4
152.5°	508.2	539.0	508.2	448.7	407.2	386.3
155°	496.7	520.0	496.7	451.6	418.6	404.1
157.5°	489.4	506.3	489.4	455.2	432.3	418.3
160°	484.6	499.2	484.6	457.6	439.5	427.9
162.5°	482.2	492.0	482.2	459.9	446.6	435.0
165°	475.6	484.3	475.6	463.5	454.5	448.7
167.5°	472.5	477.8	472.5	466.5	461.6	456.4
170°	472.5	475.4	472.5	466.5	466.4	463.5
172.5°	470.1	473.0	470.1	468.9	471.1	465.9
175°	469.4	466.5	469.4	472.4	475.3	472.4
177.5°	472.4	470.0	472.4	472.4	474.7	472.4
180°	472.4	472.4	472.4	472.4	472.4	472.4

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