

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: P621705

Luminaire Tested: VLT-FA-125U-075D-840-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621705  
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-075D-840-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

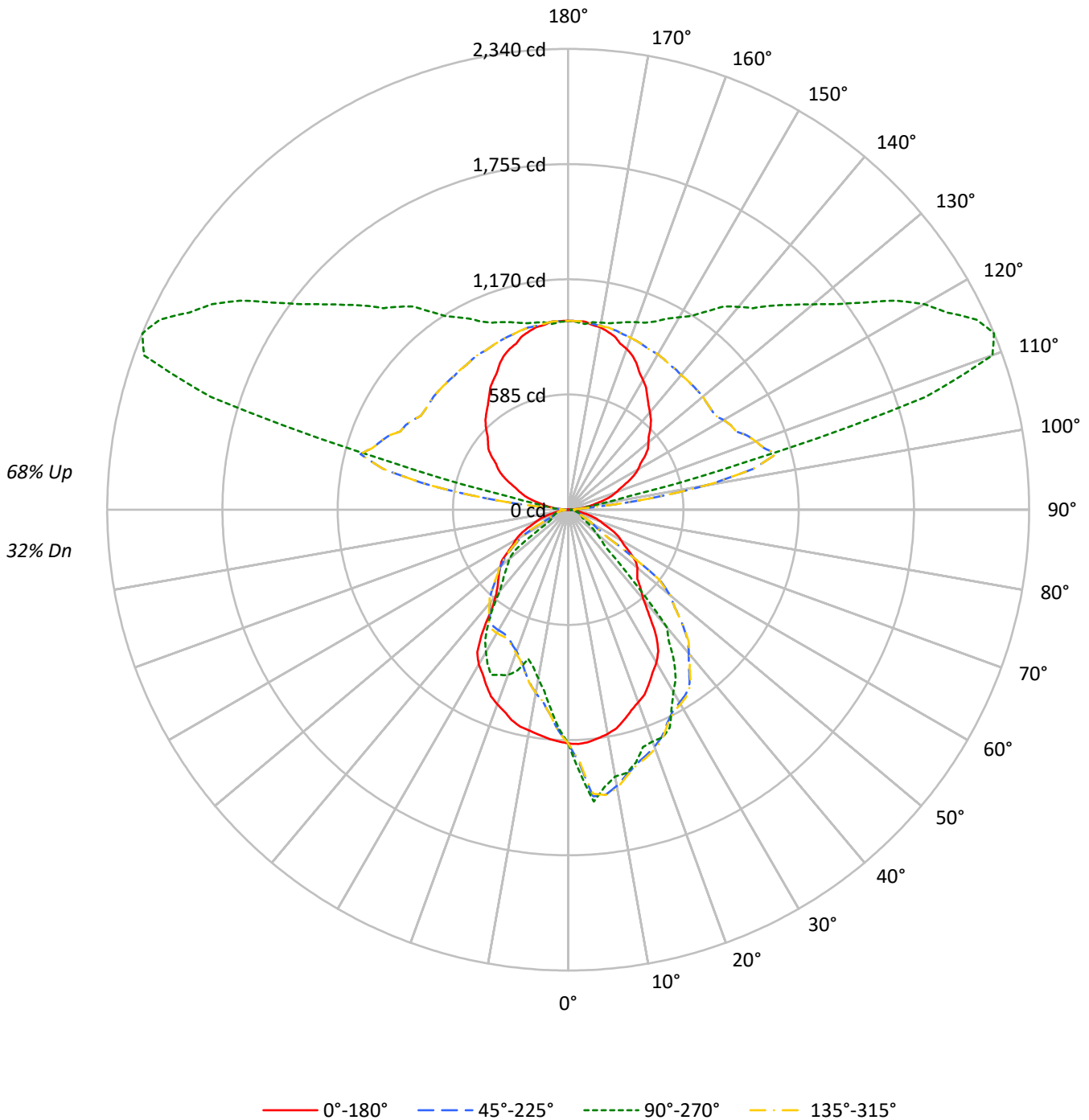
Lumens per Lamp: N/A  
Luminaire Lumens: 7600.4 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 59.8  
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



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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	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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32				
1	94	90	87	84	85	82	79	76	65	63	61	50	49	48	36	35	35	28				
2	86	79	74	69	78	72	67	63	58	54	52	44	42	41	32	31	30	25				
3	79	70	63	58	71	64	58	53	51	47	44	40	37	35	29	27	26	21				
4	72	62	55	49	65	57	50	45	46	41	38	36	33	30	26	24	23	19				
5	67	56	48	43	60	51	44	39	41	36	33	32	29	26	24	22	20	17				
6	61	50	42	37	55	46	39	34	37	32	29	29	26	23	22	20	18	15				
7	57	45	38	32	51	41	35	30	34	29	25	27	23	21	20	18	16	13				
8	53	41	34	29	47	37	31	27	31	26	23	24	21	18	18	16	15	12				
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11				
10	46	34	27	23	41	31	25	21	26	21	18	21	17	15	16	14	12	10				

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

	0°	90°	180°	270°
0°	8518	8518	8518	8518
5°	8533	10716	8403	7307
10°	8420	10022	8297	6344
15°	8191	9868	8217	5822
20°	7940	9562	8032	6824
25°	7697	9666	7783	7324
30°	7424	8845	7525	6914
35°	6802	8199	6632	6199
40°	5543	7296	5351	5045
45°	5037	2709	5085	4595
50°	5123	2063	5028	4367
55°	4834	1601	4668	2614
60°	4453	1230	4419	1455
65°	4101	1272	4019	1538
70°	3649	1343	3548	1597
75°	3114	1406	2981	1641
80°	2347	1446	2194	1698
85°	1589	1293	1391	1589

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9326 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	1.5
10°-20°	313.7	4.1
20°-30°	469.4	6.2
30°-40°	533.8	7.0
40°-50°	456.5	6.0
50°-60°	307.9	4.1
60°-70°	158.9	2.1
70°-80°	71.7	0.9
80°-90°	23.5	0.3
90°-100°	117.9	1.6
100°-110°	840.0	11.1
110°-120°	1140.5	15.0
120°-130°	928.2	12.2
130°-140°	746.5	9.8
140°-150°	588.6	7.7
150°-160°	430.4	5.7
160°-170°	267.3	3.5
170°-180°	91.2	1.2
0°-30°	897.6	11.8
0°-40°	1431.3	18.8
0°-60°	2195.7	28.9
0°-90°	2449.9	32.2
90°-120°	2098.4	27.6
90°-150°	4361.7	57.4
90°-180°	5150.0	67.8
0°-180°	7600.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1187	1187	1187	1187	1187	
5°	1185	1488	1166	1014	1185	112
15°	1102	1328	1106	784	1102	310
25°	972	1221	983	925	972	447
35°	776	936	757	708	776	475
45°	496	267	501	453	496	394
55°	386	128	373	209	386	344
65°	242	75	237	91	242	239
75°	112	51	108	59	112	120
85°	19	16	17	19	19	25
90°	0	18	0	18	0	3
95°	48	66	48	66	48	54
105°	187	923	187	923	187	197
115°	332	2286	332	2286	332	329
125°	476	1833	476	1833	476	423
135°	591	1465	591	1465	591	455
145°	700	1230	700	1230	700	439
155°	820	1055	820	1055	820	376
165°	911	983	911	983	911	256
175°	959	947	959	947	959	91
180°	959	959	959	959	959	



TEST NUMBER: P621705

CATALOG NUMBER: VLT-FA-125U-075D-840-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0
2.5°	1190.9	1231.5	1282.7	1317.8	1332.9	1317.8	1274.0	1231.2	1177.4	1161.3	1123.3
5°	1184.6	1309.8	1461.1	1479.4	1487.7	1479.4	1447.9	1302.3	1166.5	1108.6	1045.7
7.5°	1170.1	1389.0	1459.5	1418.6	1418.9	1426.4	1461.6	1382.2	1151.3	1060.4	983.2
10°	1155.6	1433.1	1423.7	1364.8	1375.4	1370.7	1434.6	1424.5	1138.7	1033.6	945.5
12.5°	1136.3	1446.8	1376.4	1357.1	1368.6	1362.0	1383.4	1439.3	1128.1	1014.5	902.0
15°	1102.5	1427.2	1336.8	1328.3	1328.3	1334.2	1342.8	1433.2	1106.1	979.8	848.9
17.5°	1067.7	1387.9	1309.2	1267.4	1262.9	1270.7	1319.1	1398.0	1075.0	941.3	797.5
20°	1039.7	1360.9	1281.2	1232.2	1252.2	1234.5	1292.1	1368.2	1051.8	917.2	765.6
22.5°	1014.6	1327.2	1245.5	1224.6	1251.3	1225.1	1255.4	1334.6	1024.7	890.1	741.4
25°	972.1	1270.8	1191.9	1211.4	1220.8	1211.4	1196.7	1275.8	983.0	855.4	716.1
27.5°	929.8	1211.3	1151.8	1164.9	1136.1	1158.3	1158.3	1211.5	940.0	815.0	708.4
30°	896.0	1169.9	1131.5	1112.4	1067.5	1102.9	1139.9	1170.2	908.1	788.8	706.4
32.5°	851.6	1132.1	1111.2	1045.1	1016.3	1040.4	1120.6	1131.3	858.8	765.1	704.5
35°	776.5	1078.7	1074.7	965.4	935.9	958.3	1083.2	1075.9	757.1	727.6	689.5
37.5°	675.8	1031.1	1004.9	884.8	837.8	878.9	1012.9	1026.0	636.9	693.3	654.5
40°	591.7	999.1	952.8	824.9	778.9	819.0	958.8	996.2	571.2	669.2	615.9
42.5°	544.4	970.6	897.7	761.5	476.5	751.8	903.7	967.0	530.6	638.0	582.0
45°	496.3	919.0	817.5	421.5	266.9	401.5	818.7	906.1	501.1	590.9	530.1
47.5°	475.3	855.5	733.7	253.9	225.3	246.6	733.0	841.6	475.5	543.5	480.6
50°	458.9	815.5	673.8	223.7	184.8	215.5	675.0	802.3	450.4	511.8	446.8
52.5°	431.8	767.6	587.8	185.4	159.6	180.9	573.6	752.6	424.3	477.2	404.3
55°	386.4	675.7	245.1	145.7	128.0	139.8	233.1	653.0	373.1	422.7	355.0
57.5°	338.4	575.2	172.0	113.4	99.3	112.2	170.7	552.2	332.1	358.1	309.6
60°	310.3	507.5	140.1	95.2	85.7	94.0	138.9	487.4	307.9	315.0	268.1
62.5°	282.3	438.9	115.9	83.7	80.9	82.6	115.7	416.8	278.0	278.5	188.9
65°	241.5	332.4	85.7	76.0	74.9	74.9	83.3	320.5	236.7	229.6	108.7
67.5°	200.0	238.7	68.8	70.0	68.8	68.8	67.6	232.0	195.1	183.1	82.1
70°	173.9	183.3	64.0	65.2	64.0	64.0	62.8	178.5	169.1	141.9	77.3
72.5°	148.8	125.2	59.2	59.4	59.2	59.2	58.0	117.5	143.9	99.8	70.5
75°	112.3	62.7	50.7	50.7	50.7	50.7	49.5	60.2	107.5	65.0	60.4
77.5°	78.0	41.4	42.0	41.8	41.8	40.8	40.8	41.1	73.4	44.8	48.8
80°	56.8	34.3	36.2	35.0	35.0	35.0	35.0	33.1	53.1	37.8	41.1
82.5°	40.3	27.3	29.5	28.3	28.3	28.3	28.3	27.0	36.7	30.8	33.3
85°	19.3	18.1	19.3	16.9	15.7	16.9	18.1	18.1	16.9	20.4	21.7
87.5°	5.8	9.8	10.1	9.4	9.4	9.4	9.2	8.8	4.8	10.7	11.1
90°	0.0	5.9	12.1	18.1	18.1	18.1	12.1	5.9	0.0	5.9	12.1
92.5°	14.5	20.4	26.5	37.5	42.2	37.5	26.5	20.4	14.5	20.4	26.5
95°	48.2	89.5	48.2	54.5	66.3	54.5	48.2	89.5	48.2	89.5	48.2
97.5°	85.6	171.7	354.6	104.6	90.5	104.6	354.6	171.7	85.6	171.7	354.6
100°	114.6	214.8	711.6	209.5	138.7	209.5	711.6	214.8	114.6	214.8	711.6
102.5°	143.5	248.5	962.4	552.7	302.7	552.7	962.4	248.5	143.5	248.5	962.4
105°	186.9	287.2	1091.5	1394.3	922.6	1394.3	1091.5	287.2	186.9	287.2	1091.5
107.5°	230.4	305.8	1042.0	2029.3	1900.7	2029.3	1042.0	305.8	230.4	305.8	1042.0
110°	259.3	330.1	1013.1	2132.3	2291.5	2132.3	1013.1	330.1	259.3	330.1	1013.1



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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°	288.2	359.0	984.1	2072.1	2339.7	2072.1	984.1	359.0	288.2	359.0	984.1
115°	331.7	402.4	940.7	1955.3	2285.5	1955.3	940.7	402.4	331.7	402.4	940.7
117.5°	376.3	445.9	929.9	1828.9	2168.5	1828.9	929.9	445.9	376.3	445.9	929.9
120°	410.1	474.9	910.6	1732.7	2086.5	1732.7	910.6	474.9	410.1	474.9	910.6
122.5°	434.2	503.8	886.4	1650.0	1975.5	1650.0	886.4	503.8	434.2	503.8	886.4
125°	476.4	541.2	886.4	1550.2	1833.2	1550.2	886.4	541.2	476.4	541.2	886.4
127.5°	511.4	577.4	887.7	1434.3	1713.8	1434.3	887.7	577.4	511.4	577.4	887.7
130°	530.7	601.4	892.5	1356.8	1622.1	1356.8	892.5	601.4	530.7	601.4	892.5
132.5°	554.8	625.5	892.5	1322.0	1540.1	1322.0	892.5	625.5	554.8	625.5	892.5
135°	591.0	655.8	892.5	1276.7	1465.4	1276.7	892.5	655.8	591.0	655.8	892.5
137.5°	621.1	690.7	892.5	1226.6	1388.2	1226.6	892.5	690.7	621.1	690.7	892.5
140°	645.2	710.1	892.5	1197.3	1344.7	1197.3	892.5	710.1	645.2	710.1	892.5
142.5°	669.4	729.5	897.3	1163.4	1301.3	1163.4	897.3	729.5	669.4	729.5	897.3
145°	699.5	758.5	898.5	1112.2	1230.2	1112.2	898.5	758.5	699.5	758.5	898.5
147.5°	735.7	787.6	905.7	1075.5	1166.3	1075.5	905.7	787.6	735.7	787.6	905.7
150°	759.8	807.0	910.6	1051.0	1127.7	1051.0	910.6	807.0	759.8	807.0	910.6
152.5°	783.9	826.4	910.6	1031.4	1093.9	1031.4	910.6	826.4	783.9	826.4	910.6
155°	820.1	849.6	916.6	1008.1	1055.3	1008.1	916.6	849.6	820.1	849.6	916.6
157.5°	849.1	877.4	923.8	993.4	1027.6	993.4	923.8	877.4	849.1	877.4	923.8
160°	868.4	891.9	928.7	983.6	1013.1	983.6	928.7	891.9	868.4	891.9	928.7
162.5°	882.8	906.4	933.5	978.6	998.6	978.6	933.5	906.4	882.8	906.4	933.5
165°	910.6	922.4	940.7	965.2	982.9	965.2	940.7	922.4	910.6	922.4	940.7
167.5°	926.2	936.9	946.8	959.1	969.7	959.1	946.8	936.9	926.2	936.9	946.8
170°	940.7	946.6	946.8	958.9	964.8	958.9	946.8	946.6	940.7	946.6	946.8
172.5°	945.5	956.2	951.6	954.1	960.0	954.1	951.6	956.2	945.5	956.2	951.6
175°	958.8	964.7	958.8	952.6	946.8	952.6	958.8	964.7	958.8	964.7	958.8
177.5°	958.8	963.5	958.8	958.7	954.0	958.7	958.8	963.5	958.8	963.5	958.8
180°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8

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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0
2.5°	1109.7	1108.8	1110.7	1127.1	1160.7	1190.9
5°	1010.8	1014.4	1017.9	1045.7	1104.3	1184.6
7.5°	934.8	929.6	937.6	983.0	1054.9	1170.1
10°	882.5	870.7	882.5	944.3	1028.1	1155.6
12.5°	833.1	818.5	836.9	904.7	1006.0	1136.3
15°	769.5	783.7	775.4	851.3	972.6	1102.5
17.5°	784.6	855.9	799.7	805.0	939.5	1067.7
20°	820.4	893.6	844.0	774.0	918.1	1039.7
22.5°	852.8	908.1	863.2	748.0	896.8	1014.6
25°	877.8	925.0	875.4	724.5	865.8	972.1
27.5°	879.0	885.6	879.5	722.6	827.6	929.8
30°	862.8	834.4	860.4	724.5	800.4	896.0
32.5°	816.3	784.2	806.4	720.7	772.9	851.6
35°	750.1	707.6	738.3	700.4	730.4	776.5
37.5°	680.3	626.5	669.0	660.3	694.2	675.8
40°	633.0	538.6	623.6	620.7	674.4	591.7
42.5°	572.5	492.2	564.0	588.8	652.5	544.4
45°	462.3	452.8	457.6	534.9	606.1	496.3
47.5°	422.7	416.4	420.4	485.9	553.7	475.3
50°	399.5	391.2	397.2	454.0	520.3	458.9
52.5°	367.3	344.9	365.0	410.6	485.7	431.8
55°	276.2	208.9	275.0	361.1	433.6	386.4
57.5°	162.1	120.8	158.5	314.2	367.4	338.4
60°	109.7	101.4	110.9	276.5	323.3	310.3
62.5°	100.2	97.6	100.4	192.5	284.0	282.3
65°	91.7	90.6	91.7	111.1	234.4	241.5
67.5°	83.1	81.9	84.0	85.3	185.1	200.0
70°	77.3	76.1	77.3	78.5	142.0	173.9
72.5°	70.5	69.3	70.5	71.7	99.9	148.8
75°	60.4	59.2	60.4	61.6	66.3	112.3
77.5°	48.8	48.8	50.0	50.0	46.4	78.0
80°	41.1	41.1	42.2	42.3	40.2	56.8
82.5°	33.3	32.4	34.5	35.5	33.2	40.3
85°	20.5	19.3	21.7	22.9	21.7	19.3
87.5°	11.3	10.4	12.3	13.0	11.7	5.8
90°	18.1	18.1	18.1	12.1	5.9	0.0
92.5°	37.5	42.2	37.5	26.5	20.4	14.5
95°	54.5	66.3	54.5	48.2	89.5	48.2
97.5°	104.6	90.5	104.6	354.6	171.7	85.6
100°	209.5	138.7	209.5	711.6	214.8	114.6
102.5°	552.7	302.7	552.7	962.4	248.5	143.5
105°	1394.3	922.6	1394.3	1091.5	287.2	186.9
107.5°	2029.3	1900.7	2029.3	1042.0	305.8	230.4
110°	2132.3	2291.5	2132.3	1013.1	330.1	259.3





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2072.1	2339.7	2072.1	984.1	359.0	288.2
115°	1955.3	2285.5	1955.3	940.7	402.4	331.7
117.5°	1828.9	2168.5	1828.9	929.9	445.9	376.3
120°	1732.7	2086.5	1732.7	910.6	474.9	410.1
122.5°	1650.0	1975.5	1650.0	886.4	503.8	434.2
125°	1550.2	1833.2	1550.2	886.4	541.2	476.4
127.5°	1434.3	1713.8	1434.3	887.7	577.4	511.4
130°	1356.8	1622.1	1356.8	892.5	601.4	530.7
132.5°	1322.0	1540.1	1322.0	892.5	625.5	554.8
135°	1276.7	1465.4	1276.7	892.5	655.8	591.0
137.5°	1226.6	1388.2	1226.6	892.5	690.7	621.1
140°	1197.3	1344.7	1197.3	892.5	710.1	645.2
142.5°	1163.4	1301.3	1163.4	897.3	729.5	669.4
145°	1112.2	1230.2	1112.2	898.5	758.5	699.5
147.5°	1075.5	1166.3	1075.5	905.7	787.6	735.7
150°	1051.0	1127.7	1051.0	910.6	807.0	759.8
152.5°	1031.4	1093.9	1031.4	910.6	826.4	783.9
155°	1008.1	1055.3	1008.1	916.6	849.6	820.1
157.5°	993.4	1027.6	993.4	923.8	877.4	849.1
160°	983.6	1013.1	983.6	928.7	891.9	868.4
162.5°	978.6	998.6	978.6	933.5	906.4	882.8
165°	965.2	982.9	965.2	940.7	922.4	910.6
167.5°	959.1	969.7	959.1	946.8	936.9	926.2
170°	958.9	964.8	958.9	946.8	946.6	940.7
172.5°	954.1	960.0	954.1	951.6	956.2	945.5
175°	952.6	946.8	952.6	958.8	964.7	958.8
177.5°	958.7	954.0	958.7	958.8	963.5	958.8
180°	958.8	958.8	958.8	958.8	958.8	958.8

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