

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: P621584

Luminaire Tested: VLT-FA-025U-075D-835-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621584  
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-025U-075D-835-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

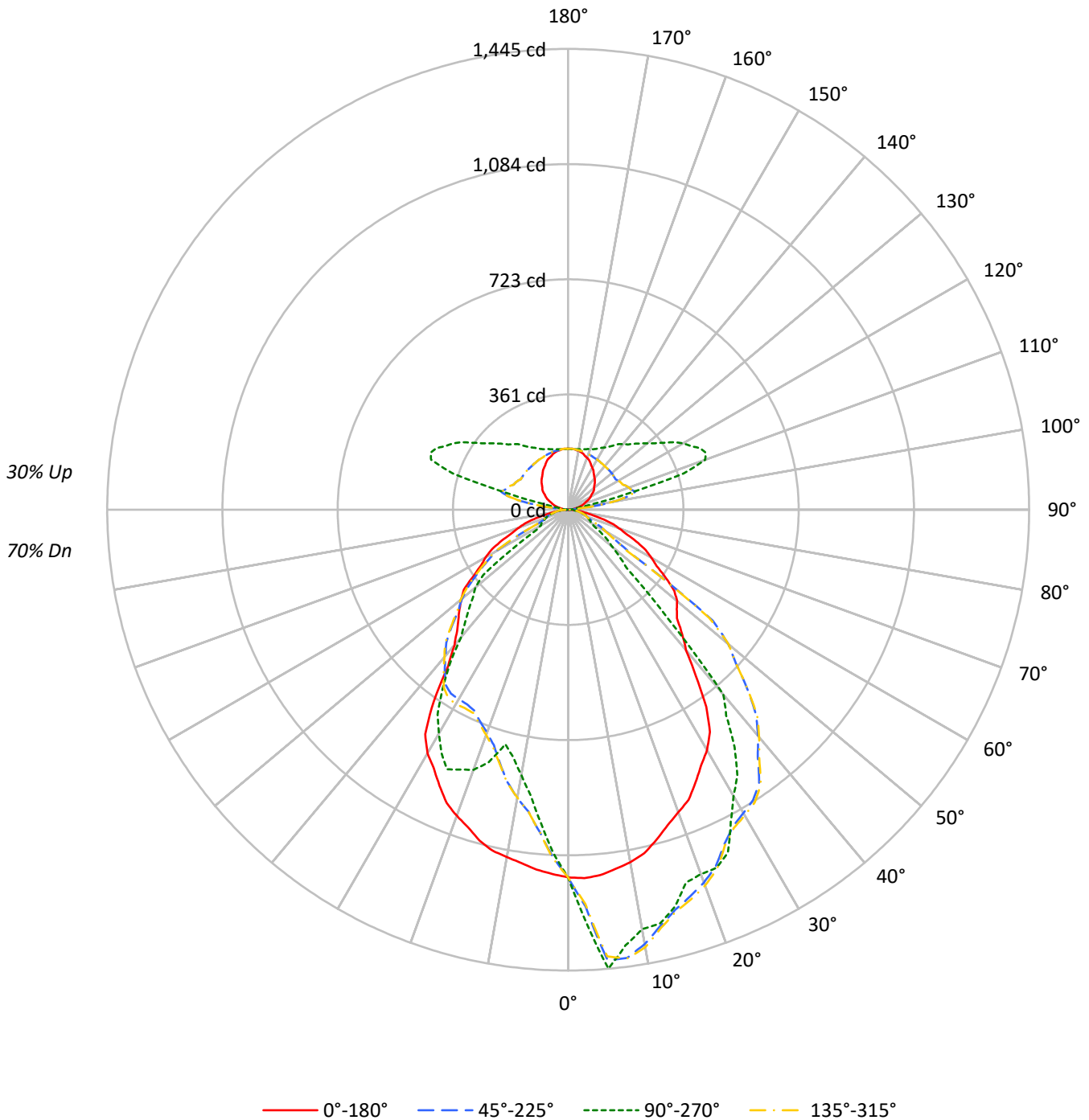
Lumens per Lamp: N/A  
Luminaire Lumens: 3404.9 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.9  
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70	
1	103	99	96	93	98	94	91	88	85	82	80	76	74	72	68	66	65	65	65	65	61	
2	95	88	82	78	90	84	79	74	76	72	68	68	65	62	61	59	57	57	57	57	53	
3	88	79	72	66	83	75	69	64	68	63	59	61	57	54	55	52	50	50	50	50	46	
4	81	70	63	57	76	67	60	55	61	55	51	55	51	47	50	46	44	44	44	44	41	
5	75	63	56	50	70	60	53	48	55	49	45	50	45	42	45	42	39	39	39	39	36	
6	69	57	49	44	65	55	48	42	50	44	40	46	41	37	42	38	35	35	35	35	32	
7	64	52	44	39	61	50	43	38	46	40	36	42	37	33	38	34	31	31	31	31	29	
8	60	48	40	35	57	46	39	34	42	36	32	39	34	30	35	31	28	28	28	28	26	
9	56	44	36	31	53	42	35	31	39	33	29	36	31	27	33	29	26	26	26	26	24	
10	52	40	33	29	50	39	32	28	36	30	26	33	28	25	30	26	23	23	23	23	22	

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

	0°	90°	180°	270°
0°	8272	8272	8272	8272
5°	8286	10406	8159	7095
10°	8177	9732	8058	6160
15°	7954	9583	7980	5654
20°	7710	9286	7799	6626
25°	7474	9387	7558	7112
30°	7210	8589	7307	6714
35°	6605	7961	6441	6019
40°	5383	7085	5195	4899
45°	4890	2629	4938	4462
50°	4975	2003	4883	4241
55°	4694	1555	4533	2538
60°	4326	1196	4291	1414
65°	3982	1234	3902	1493
70°	3544	1303	3445	1550
75°	3025	1364	2895	1594
80°	2277	1405	2132	1649
85°	1548	1251	1350	1548

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9056 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.2	3.3
10°-20°	304.6	8.9
20°-30°	455.8	13.4
30°-40°	518.3	15.2
40°-50°	443.3	13.0
50°-60°	298.9	8.8
60°-70°	154.3	4.5
70°-80°	69.7	2.0
80°-90°	21.2	0.6
90°-100°	23.5	0.7
100°-110°	167.6	4.9
110°-120°	227.5	6.7
120°-130°	185.2	5.4
130°-140°	149.0	4.4
140°-150°	117.4	3.4
150°-160°	85.9	2.5
160°-170°	53.3	1.6
170°-180°	18.2	0.5
0°-30°	871.6	25.6
0°-40°	1389.9	40.8
0°-60°	2132.2	62.6
0°-90°	2377.3	69.8
90°-120°	418.7	12.3
90°-150°	870.3	25.6
90°-180°	1028.0	30.2
0°-180°	3404.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1150	1445	1133	985	1150	109
15°	1071	1290	1074	761	1071	301
25°	944	1186	954	898	944	434
35°	754	909	735	687	754	461
45°	482	259	487	440	482	382
55°	375	124	362	203	375	334
65°	234	73	230	88	234	232
75°	109	49	104	58	109	116
85°	19	15	16	19	19	24
90°	0	4	0	4	0	1
95°	10	13	10	13	10	11
105°	37	184	37	184	37	39
115°	66	456	66	456	66	66
125°	95	366	95	366	95	84
135°	118	292	118	292	118	91
145°	140	245	140	245	140	88
155°	164	211	164	211	164	75
165°	182	196	182	196	182	51
175°	191	189	191	189	191	18
180°	191	191	191	191	191	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1156.4	1195.9	1245.5	1279.6	1294.3	1279.6	1237.1	1195.6	1143.3	1127.7	1090.8
5°	1150.3	1271.9	1418.8	1436.6	1444.6	1436.6	1405.9	1264.6	1132.7	1076.6	1015.5
7.5°	1136.3	1348.8	1417.2	1377.6	1377.8	1385.1	1419.3	1342.2	1118.0	1029.7	954.7
10°	1122.2	1391.6	1382.5	1325.3	1335.6	1331.0	1393.1	1383.2	1105.8	1003.7	918.1
12.5°	1103.4	1405.0	1336.5	1317.8	1329.0	1322.6	1343.3	1397.7	1095.4	985.1	875.9
15°	1070.6	1385.9	1298.1	1289.9	1289.9	1295.6	1303.9	1391.7	1074.1	951.4	824.3
17.5°	1036.8	1347.8	1271.3	1230.7	1226.3	1233.9	1281.0	1357.5	1043.9	914.1	774.4
20°	1009.6	1321.5	1244.1	1196.5	1216.0	1198.8	1254.7	1328.6	1021.3	890.6	743.4
22.5°	985.2	1288.8	1209.4	1189.1	1215.1	1189.6	1219.0	1295.9	995.1	864.4	720.0
25°	943.9	1234.0	1157.4	1176.3	1185.5	1176.3	1162.0	1238.8	954.5	830.7	695.4
27.5°	902.9	1176.2	1118.4	1131.2	1103.2	1124.7	1124.8	1176.5	912.8	791.4	687.8
30°	870.1	1136.1	1098.7	1080.1	1036.6	1071.0	1106.9	1136.3	881.8	766.0	686.0
32.5°	826.9	1099.3	1079.0	1014.8	986.9	1010.3	1088.2	1098.6	834.0	742.9	684.1
35°	754.0	1047.5	1043.6	937.4	908.8	930.6	1051.8	1044.8	735.2	706.6	669.6
37.5°	656.2	1001.3	975.8	859.2	813.6	853.5	983.6	996.3	618.4	673.2	635.6
40°	574.6	970.1	925.2	801.0	756.3	795.3	931.0	967.4	554.6	649.8	598.0
42.5°	528.6	942.5	871.7	739.5	462.7	730.1	877.6	939.0	515.2	619.6	565.2
45°	481.9	892.4	793.9	409.3	259.1	389.9	795.0	879.9	486.6	573.8	514.8
47.5°	461.5	830.7	712.5	246.6	218.8	239.4	711.8	817.2	461.8	527.8	466.7
50°	445.6	791.8	654.3	217.2	179.4	209.2	655.5	779.1	437.4	497.0	433.9
52.5°	419.3	745.4	570.8	180.0	155.0	175.7	557.0	730.8	412.1	463.4	392.6
55°	375.2	656.1	238.0	141.5	124.3	135.8	226.3	634.1	362.3	410.5	344.7
57.5°	328.6	558.6	167.0	110.1	96.4	109.0	165.8	536.2	322.5	347.7	300.7
60°	301.4	492.8	136.0	92.4	83.3	91.3	134.8	473.3	299.0	305.9	260.3
62.5°	274.2	426.2	112.6	81.3	78.6	80.2	112.3	404.8	269.9	270.4	183.4
65°	234.5	322.8	83.3	73.8	72.7	72.7	80.9	311.2	229.8	223.0	105.5
67.5°	194.2	231.8	66.8	68.0	66.8	66.8	65.7	225.3	189.5	177.8	79.7
70°	168.9	178.0	62.1	63.3	62.1	62.1	61.0	173.3	164.2	137.8	75.0
72.5°	144.5	121.5	57.5	57.7	57.5	57.5	56.3	114.1	139.8	96.9	68.5
75°	109.1	60.9	49.2	49.2	49.2	49.2	48.1	58.5	104.4	63.1	58.6
77.5°	75.8	40.2	40.8	40.6	40.6	39.7	39.6	39.9	71.3	43.5	47.4
80°	55.1	33.3	35.2	34.0	34.0	34.0	34.0	32.1	51.6	36.7	39.9
82.5°	39.2	26.6	28.6	27.4	27.4	27.4	27.4	26.2	35.6	29.9	32.4
85°	18.8	17.6	18.8	16.4	15.2	16.4	17.6	17.6	16.4	19.9	21.1
87.5°	5.6	8.6	8.0	6.4	6.4	6.4	7.0	7.7	4.7	9.5	8.9
90°	0.0	1.2	2.4	3.6	3.6	3.6	2.4	1.2	0.0	1.2	2.4
92.5°	2.9	4.1	5.3	7.5	8.4	7.5	5.3	4.1	2.9	4.1	5.3
95°	9.6	17.9	9.6	10.9	13.2	10.9	9.6	17.9	9.6	17.9	9.6
97.5°	17.1	34.3	70.7	20.9	18.0	20.9	70.7	34.3	17.1	34.3	70.7
100°	22.9	42.9	142.0	41.8	27.7	41.8	142.0	42.9	22.9	42.9	142.0
102.5°	28.6	49.6	192.0	110.3	60.4	110.3	192.0	49.6	28.6	49.6	192.0
105°	37.3	57.3	217.8	278.2	184.1	278.2	217.8	57.3	37.3	57.3	217.8
107.5°	46.0	61.0	207.9	404.9	379.2	404.9	207.9	61.0	46.0	61.0	207.9
110°	51.7	65.9	202.1	425.4	457.2	425.4	202.1	65.9	51.7	65.9	202.1

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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°	57.5	71.6	196.4	413.4	466.8	413.4	196.4	71.6	57.5	71.6	196.4
115°	66.2	80.3	187.7	390.1	456.0	390.1	187.7	80.3	66.2	80.3	187.7
117.5°	75.1	89.0	185.5	364.9	432.7	364.9	185.5	89.0	75.1	89.0	185.5
120°	81.8	94.8	181.7	345.7	416.3	345.7	181.7	94.8	81.8	94.8	181.7
122.5°	86.6	100.5	176.9	329.2	394.2	329.2	176.9	100.5	86.6	100.5	176.9
125°	95.1	108.0	176.9	309.3	365.8	309.3	176.9	108.0	95.1	108.0	176.9
127.5°	102.0	115.2	177.1	286.2	341.9	286.2	177.1	115.2	102.0	115.2	177.1
130°	105.9	120.0	178.1	270.7	323.7	270.7	178.1	120.0	105.9	120.0	178.1
132.5°	110.7	124.8	178.1	263.8	307.3	263.8	178.1	124.8	110.7	124.8	178.1
135°	117.9	130.9	178.1	254.7	292.4	254.7	178.1	130.9	117.9	130.9	178.1
137.5°	123.9	137.8	178.1	244.7	277.0	244.7	178.1	137.8	123.9	137.8	178.1
140°	128.7	141.7	178.1	238.9	268.3	238.9	178.1	141.7	128.7	141.7	178.1
142.5°	133.6	145.6	179.0	232.1	259.6	232.1	179.0	145.6	133.6	145.6	179.0
145°	139.6	151.3	179.3	221.9	245.4	221.9	179.3	151.3	139.6	151.3	179.3
147.5°	146.8	157.1	180.7	214.6	232.7	214.6	180.7	157.1	146.8	157.1	180.7
150°	151.6	161.0	181.7	209.7	225.0	209.7	181.7	161.0	151.6	161.0	181.7
152.5°	156.4	164.9	181.7	205.8	218.3	205.8	181.7	164.9	156.4	164.9	181.7
155°	163.6	169.5	182.9	201.1	210.6	201.1	182.9	169.5	163.6	169.5	182.9
157.5°	169.4	175.1	184.3	198.2	205.0	198.2	184.3	175.1	169.4	175.1	184.3
160°	173.3	178.0	185.3	196.2	202.1	196.2	185.3	178.0	173.3	178.0	185.3
162.5°	176.1	180.8	186.3	195.2	199.2	195.2	186.3	180.8	176.1	180.8	186.3
165°	181.7	184.0	187.7	192.6	196.1	192.6	187.7	184.0	181.7	184.0	187.7
167.5°	184.8	186.9	188.9	191.4	193.5	191.4	188.9	186.9	184.8	186.9	188.9
170°	187.7	188.9	188.9	191.3	192.5	191.3	188.9	188.9	187.7	188.9	188.9
172.5°	188.7	190.8	189.9	190.4	191.5	190.4	189.9	190.8	188.7	190.8	189.9
175°	191.3	192.5	191.3	190.1	188.9	190.1	191.3	192.5	191.3	192.5	191.3
177.5°	191.3	192.2	191.3	191.3	190.3	191.3	191.3	192.2	191.3	192.2	191.3
180°	191.3	191.3	191.3	191.3	191.3	191.3	191.3	191.3	191.3	191.3	191.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1077.6	1076.7	1078.5	1094.5	1127.1	1156.4
5°	981.5	985.0	988.4	1015.5	1072.4	1150.3
7.5°	907.7	902.7	910.5	954.5	1024.3	1136.3
10°	856.9	845.4	856.9	917.0	998.4	1122.2
12.5°	809.0	794.8	812.7	878.5	976.8	1103.4
15°	747.3	761.0	753.0	826.7	944.5	1070.6
17.5°	761.9	831.1	776.6	781.7	912.3	1036.8
20°	796.6	867.7	819.6	751.6	891.5	1009.6
22.5°	828.1	881.8	838.2	726.3	870.8	985.2
25°	852.4	898.2	850.1	703.6	840.8	943.9
27.5°	853.6	860.0	854.0	701.7	803.6	902.9
30°	837.8	810.3	835.5	703.6	777.2	870.1
32.5°	792.7	761.5	783.0	699.8	750.6	826.9
35°	728.4	687.1	717.0	680.1	709.3	754.0
37.5°	660.6	608.3	649.6	641.2	674.1	656.2
40°	614.7	523.0	605.5	602.7	654.8	574.6
42.5°	555.9	478.0	547.7	571.8	633.6	528.6
45°	448.9	439.7	444.3	519.5	588.6	481.9
47.5°	410.5	404.3	408.2	471.9	537.7	461.5
50°	387.9	379.9	385.7	440.9	505.2	445.6
52.5°	356.7	334.9	354.4	398.7	471.6	419.3
55°	268.2	202.9	267.1	350.6	421.1	375.2
57.5°	157.4	117.3	153.9	305.1	356.8	328.6
60°	106.5	98.5	107.7	268.5	314.0	301.4
62.5°	97.3	94.7	97.5	186.9	275.8	274.2
65°	89.1	87.9	89.1	107.9	227.6	234.5
67.5°	80.6	79.5	81.6	82.8	179.7	194.2
70°	75.0	73.9	75.0	76.2	137.9	168.9
72.5°	68.5	67.3	68.5	69.7	97.0	144.5
75°	58.6	57.5	58.6	59.8	64.3	109.1
77.5°	47.4	47.4	48.5	48.5	45.0	75.8
80°	39.9	39.9	41.0	41.0	39.1	55.1
82.5°	32.3	31.4	33.5	34.5	32.3	39.2
85°	19.9	18.8	21.1	22.3	21.1	18.8
87.5°	8.2	7.3	9.1	10.8	10.4	5.6
90°	3.6	3.6	3.6	2.4	1.2	0.0
92.5°	7.5	8.4	7.5	5.3	4.1	2.9
95°	10.9	13.2	10.9	9.6	17.9	9.6
97.5°	20.9	18.0	20.9	70.7	34.3	17.1
100°	41.8	27.7	41.8	142.0	42.9	22.9
102.5°	110.3	60.4	110.3	192.0	49.6	28.6
105°	278.2	184.1	278.2	217.8	57.3	37.3
107.5°	404.9	379.2	404.9	207.9	61.0	46.0
110°	425.4	457.2	425.4	202.1	65.9	51.7





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	413.4	466.8	413.4	196.4	71.6	57.5
115°	390.1	456.0	390.1	187.7	80.3	66.2
117.5°	364.9	432.7	364.9	185.5	89.0	75.1
120°	345.7	416.3	345.7	181.7	94.8	81.8
122.5°	329.2	394.2	329.2	176.9	100.5	86.6
125°	309.3	365.8	309.3	176.9	108.0	95.1
127.5°	286.2	341.9	286.2	177.1	115.2	102.0
130°	270.7	323.7	270.7	178.1	120.0	105.9
132.5°	263.8	307.3	263.8	178.1	124.8	110.7
135°	254.7	292.4	254.7	178.1	130.9	117.9
137.5°	244.7	277.0	244.7	178.1	137.8	123.9
140°	238.9	268.3	238.9	178.1	141.7	128.7
142.5°	232.1	259.6	232.1	179.0	145.6	133.6
145°	221.9	245.4	221.9	179.3	151.3	139.6
147.5°	214.6	232.7	214.6	180.7	157.1	146.8
150°	209.7	225.0	209.7	181.7	161.0	151.6
152.5°	205.8	218.3	205.8	181.7	164.9	156.4
155°	201.1	210.6	201.1	182.9	169.5	163.6
157.5°	198.2	205.0	198.2	184.3	175.1	169.4
160°	196.2	202.1	196.2	185.3	178.0	173.3
162.5°	195.2	199.2	195.2	186.3	180.8	176.1
165°	192.6	196.1	192.6	187.7	184.0	181.7
167.5°	191.4	193.5	191.4	188.9	186.9	184.8
170°	191.3	192.5	191.3	188.9	188.9	187.7
172.5°	190.4	191.5	190.4	189.9	190.8	188.7
175°	190.1	188.9	190.1	191.3	192.5	191.3
177.5°	191.3	190.3	191.3	191.3	192.2	191.3
180°	191.3	191.3	191.3	191.3	191.3	191.3

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