

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: P621731

Luminaire Tested: VLT-FA-150U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621731  
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-150U-075D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

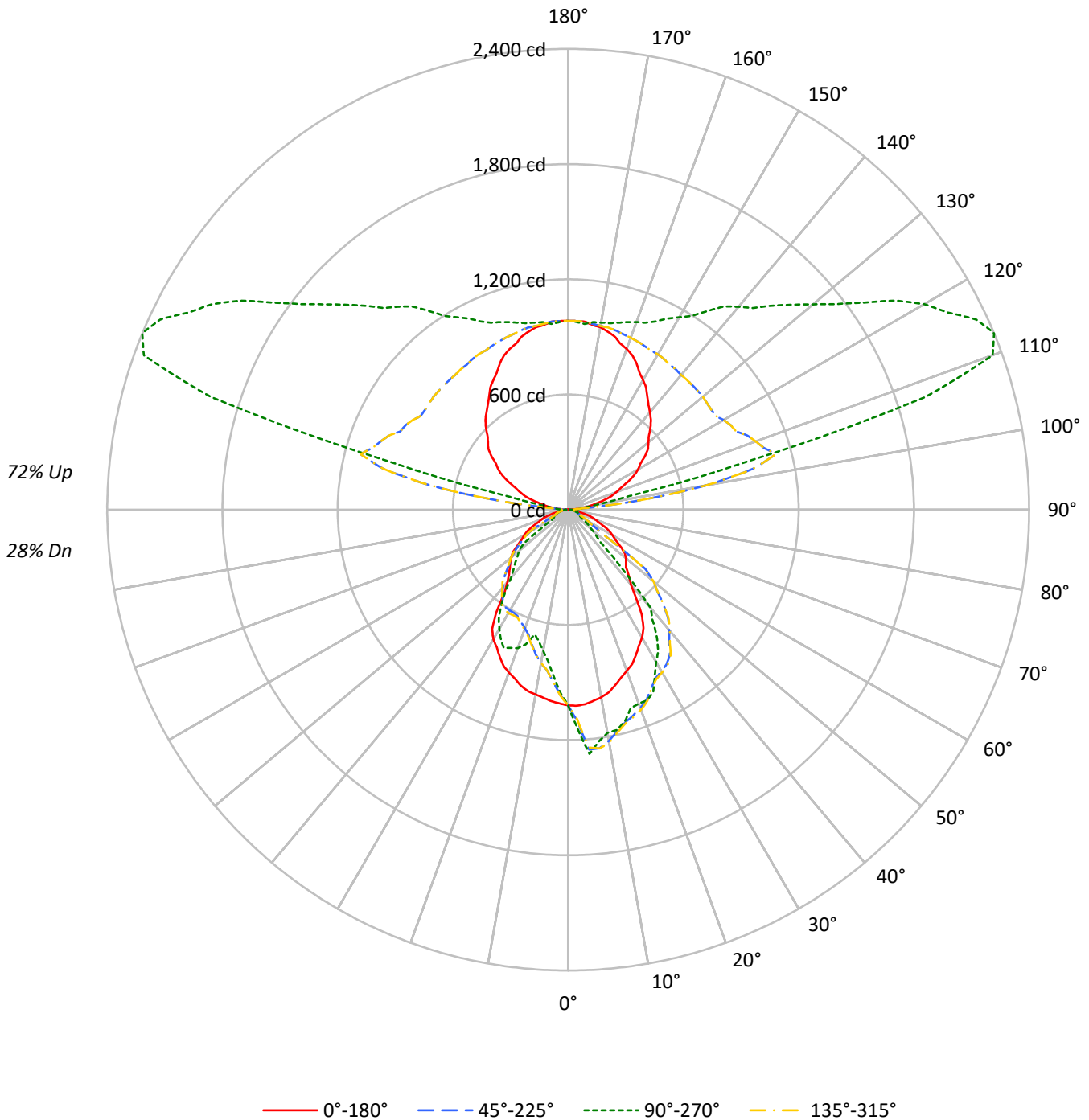
Lumens per Lamp: N/A  
Luminaire Lumens: 7386.1 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 70.2  
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: P621731  
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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	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	86	83	84	80	77	75	63	61	59	47	46	45	33	32	32	25
2	85	79	73	68	76	71	66	62	56	53	50	42	40	38	29	28	27	22
3	78	69	63	57	70	63	57	52	50	46	42	38	35	33	26	25	24	19
4	72	62	54	49	64	56	49	45	44	40	36	34	31	28	24	22	21	17
5	66	55	47	42	59	50	43	38	40	35	32	30	27	25	22	20	18	15
6	61	49	42	36	54	45	38	33	36	31	28	28	24	22	20	18	16	13
7	56	44	37	32	50	40	34	29	32	28	24	25	22	19	18	16	15	12
8	52	40	33	28	47	37	30	26	30	25	22	23	20	17	17	15	13	11
9	48	37	30	25	43	33	27	23	27	22	19	21	18	16	15	13	12	10
10	45	34	27	22	40	31	25	21	25	20	17	19	16	14	14	12	11	9

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

	0°	90°	180°	270°
0°	7309	7309	7309	7309
5°	7322	9196	7210	6270
10°	7225	8600	7120	5444
15°	7028	8468	7051	4996
20°	6813	8205	6892	5856
25°	6604	8295	6678	6284
30°	6370	7590	6457	5933
35°	5837	7034	5692	5319
40°	4756	6260	4591	4329
45°	4322	2324	4364	3944
50°	4395	1769	4315	3748
55°	4149	1374	4006	2243
60°	3822	1056	3792	1249
65°	3518	1090	3449	1319
70°	3130	1152	3044	1370
75°	2673	1206	2556	1408
80°	2013	1240	1884	1455
85°	1367	1112	1194	1367

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8003 cd/sqm



TEST NUMBER: P621731

CATALOG NUMBER: VLT-FA-150U-075D-935-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.3	1.3
10°-20°	269.2	3.6
20°-30°	402.7	5.5
30°-40°	458.0	6.2
40°-50°	391.7	5.3
50°-60°	264.2	3.6
60°-70°	136.3	1.8
70°-80°	61.6	0.8
80°-90°	20.5	0.3
90°-100°	120.9	1.6
100°-110°	861.8	11.7
110°-120°	1169.9	15.8
120°-130°	952.2	12.9
130°-140°	765.8	10.4
140°-150°	603.8	8.2
150°-160°	441.5	6.0
160°-170°	274.2	3.7
170°-180°	93.5	1.3
0°-30°	770.2	10.4
0°-40°	1228.2	16.6
0°-60°	1884.1	25.5
0°-90°	2102.5	28.5
90°-120°	2152.6	29.1
90°-150°	4474.4	60.6
90°-180°	5284.0	71.5
0°-180°	7386.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1019	1019	1019	1019	1019	
5°	1016	1277	1001	870	1016	96
15°	946	1140	949	672	946	266
25°	834	1048	843	794	834	384
35°	666	803	650	607	666	407
45°	426	229	430	389	426	338
55°	332	110	320	179	332	295
65°	207	64	203	78	207	205
75°	96	44	92	51	96	103
85°	17	14	14	17	17	21
90°	0	19	0	19	0	3
95°	50	68	50	68	50	55
105°	192	946	192	946	192	202
115°	340	2344	340	2344	340	338
125°	489	1881	489	1881	489	434
135°	606	1503	606	1503	606	466
145°	718	1262	718	1262	718	451
155°	841	1083	841	1083	841	386
165°	934	1008	934	1008	934	262
175°	984	971	984	971	984	93
180°	984	984	984	984	984	



TEST NUMBER: P621731

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6
2.5°	1021.9	1056.7	1100.6	1130.8	1143.7	1130.8	1093.2	1056.5	1010.3	996.5	963.9
5°	1016.5	1123.9	1253.8	1269.5	1276.6	1269.5	1242.4	1117.5	1000.9	951.3	897.3
7.5°	1004.1	1191.9	1252.3	1217.3	1217.5	1224.0	1254.2	1186.1	987.9	909.9	843.7
10°	991.6	1229.7	1221.7	1171.1	1180.2	1176.2	1231.0	1222.3	977.1	886.9	811.3
12.5°	975.0	1241.5	1181.0	1164.5	1174.4	1168.7	1187.0	1235.1	968.0	870.5	774.0
15°	946.0	1224.6	1147.0	1139.8	1139.8	1144.9	1152.2	1229.8	949.1	840.7	728.4
17.5°	916.2	1191.0	1123.4	1087.5	1083.6	1090.3	1131.9	1199.6	922.4	807.7	684.3
20°	892.1	1167.7	1099.4	1057.3	1074.5	1059.3	1108.7	1174.0	902.5	787.0	656.9
22.5°	870.6	1138.9	1068.7	1050.8	1073.7	1051.2	1077.2	1145.1	879.3	763.8	636.2
25°	834.1	1090.4	1022.7	1039.5	1047.6	1039.5	1026.8	1094.7	843.4	734.0	614.5
27.5°	797.9	1039.4	988.3	999.6	974.8	993.9	993.9	1039.6	806.6	699.4	607.8
30°	768.8	1003.9	970.9	954.5	916.0	946.4	978.1	1004.1	779.2	676.9	606.2
32.5°	730.7	971.4	953.5	896.8	872.0	892.7	961.6	970.8	736.9	656.5	604.5
35°	666.3	925.6	922.2	828.4	803.0	822.3	929.4	923.2	649.7	624.4	591.7
37.5°	579.8	884.8	862.3	759.2	718.9	754.2	869.1	880.4	546.5	594.9	561.6
40°	507.7	857.3	817.5	707.8	668.3	702.8	822.7	854.8	490.1	574.2	528.4
42.5°	467.1	832.9	770.3	653.4	408.9	645.1	775.5	829.8	455.3	547.5	499.4
45°	425.9	788.6	701.5	361.7	229.0	344.5	702.5	777.5	430.0	507.0	454.9
47.5°	407.8	734.1	629.6	217.9	193.4	211.6	629.0	722.1	408.0	466.4	412.4
50°	393.7	699.7	578.2	192.0	158.5	184.9	579.2	688.4	386.5	439.2	383.4
52.5°	370.5	658.7	504.4	159.1	137.0	155.2	492.2	645.8	364.1	409.5	346.9
55°	331.6	579.8	210.3	125.0	109.8	120.0	200.0	560.3	320.2	362.7	304.6
57.5°	290.3	493.6	147.6	97.3	85.2	96.3	146.5	473.8	284.9	307.2	265.7
60°	266.3	435.5	120.2	81.7	73.6	80.7	119.2	418.2	264.2	270.3	230.0
62.5°	242.3	376.6	99.5	71.9	69.4	70.8	99.3	357.7	238.5	238.9	162.1
65°	207.2	285.2	73.6	65.3	64.2	64.2	71.5	275.0	203.1	197.0	93.3
67.5°	171.6	204.8	59.1	60.1	59.1	59.1	58.0	199.1	167.4	157.1	70.5
70°	149.2	157.3	54.9	55.9	54.9	54.9	53.9	153.2	145.1	121.8	66.3
72.5°	127.7	107.4	50.8	51.0	50.8	50.8	49.7	100.8	123.5	85.6	60.5
75°	96.4	53.8	43.5	43.5	43.5	43.5	42.5	51.7	92.2	55.7	51.8
77.5°	66.9	35.5	36.1	35.9	35.9	35.0	35.0	35.2	63.0	38.5	41.9
80°	48.7	29.5	31.1	30.0	30.0	30.0	30.0	28.4	45.6	32.4	35.2
82.5°	34.6	23.5	25.3	24.2	24.2	24.2	24.2	23.2	31.5	26.4	28.6
85°	16.6	15.6	16.6	14.5	13.5	14.5	15.5	15.5	14.5	17.5	18.7
87.5°	5.0	8.6	9.1	8.7	8.7	8.7	8.3	7.8	4.1	9.4	9.9
90°	0.0	6.0	12.4	18.6	18.6	18.6	12.4	6.0	0.0	6.0	12.4
92.5°	14.8	20.9	27.2	38.5	43.3	38.5	27.2	20.9	14.8	20.9	27.2
95°	49.5	91.8	49.5	56.0	68.0	56.0	49.5	91.8	49.5	91.8	49.5
97.5°	87.8	176.2	363.7	107.3	92.8	107.3	363.7	176.2	87.8	176.2	363.7
100°	117.5	220.4	730.0	214.9	142.3	214.9	730.0	220.4	117.5	220.4	730.0
102.5°	147.2	254.9	987.3	567.0	310.5	567.0	987.3	254.9	147.2	254.9	987.3
105°	191.8	294.6	1119.7	1430.4	946.5	1430.4	1119.7	294.6	191.8	294.6	1119.7
107.5°	236.3	313.7	1069.0	2081.7	1949.9	2081.7	1069.0	313.7	236.3	313.7	1069.0
110°	266.0	338.6	1039.3	2187.4	2350.7	2187.4	1039.3	338.6	266.0	338.6	1039.3



TEST NUMBER: P621731

CATALOG NUMBER: VLT-FA-150U-075D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	295.7	368.3	1009.6	2125.6	2400.2	2125.6	1009.6	368.3	295.7	368.3	1009.6
115°	340.2	412.8	965.0	2005.8	2344.5	2005.8	965.0	412.8	340.2	412.8	965.0
117.5°	386.0	457.4	953.9	1876.1	2224.5	1876.1	953.9	457.4	386.0	457.4	953.9
120°	420.7	487.2	934.1	1777.5	2140.4	1777.5	934.1	487.2	420.7	487.2	934.1
122.5°	445.4	516.8	909.4	1692.7	2026.6	1692.7	909.4	516.8	445.4	516.8	909.4
125°	488.7	555.2	909.4	1590.2	1880.6	1590.2	909.4	555.2	488.7	555.2	909.4
127.5°	524.6	592.3	910.6	1471.4	1758.1	1471.4	910.6	592.3	524.6	592.3	910.6
130°	544.4	617.0	915.5	1391.9	1664.1	1391.9	915.5	617.0	544.4	617.0	915.5
132.5°	569.1	641.7	915.5	1356.1	1579.9	1356.1	915.5	641.7	569.1	641.7	915.5
135°	606.2	672.8	915.5	1309.7	1503.2	1309.7	915.5	672.8	606.2	672.8	915.5
137.5°	637.2	708.5	915.5	1258.3	1424.0	1258.3	915.5	708.5	637.2	708.5	915.5
140°	661.9	728.5	915.5	1228.3	1379.5	1228.3	915.5	728.5	661.9	728.5	915.5
142.5°	686.7	748.4	920.5	1193.4	1335.0	1193.4	920.5	748.4	686.7	748.4	920.5
145°	717.6	778.1	921.7	1141.0	1262.0	1141.0	921.7	778.1	717.6	778.1	921.7
147.5°	754.7	807.9	929.2	1103.2	1196.4	1103.2	929.2	807.9	754.7	807.9	929.2
150°	779.5	827.8	934.1	1078.2	1156.8	1078.2	934.1	827.8	779.5	827.8	934.1
152.5°	804.2	847.7	934.1	1058.0	1122.2	1058.0	934.1	847.7	804.2	847.7	934.1
155°	841.3	871.6	940.3	1034.2	1082.6	1034.2	940.3	871.6	841.3	871.6	940.3
157.5°	871.0	900.0	947.7	1019.0	1054.1	1019.0	947.7	900.0	871.0	900.0	947.7
160°	890.8	915.0	952.7	1009.0	1039.3	1009.0	952.7	915.0	890.8	915.0	952.7
162.5°	905.7	929.8	957.6	1003.9	1024.4	1003.9	957.6	929.8	905.7	929.8	957.6
165°	934.1	946.2	965.0	990.2	1008.3	990.2	965.0	946.2	934.1	946.2	965.0
167.5°	950.2	961.1	971.2	983.8	994.7	983.8	971.2	961.1	950.2	961.1	971.2
170°	965.0	971.1	971.2	983.7	989.8	983.7	971.2	971.1	965.0	971.1	971.2
172.5°	970.0	980.9	976.2	978.8	984.8	978.8	976.2	980.9	970.0	980.9	976.2
175°	983.6	989.6	983.6	977.3	971.2	977.3	983.6	989.6	983.6	989.6	983.6
177.5°	983.6	988.4	983.6	983.5	978.6	983.5	983.6	988.4	983.6	988.4	983.6
180°	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6



TEST NUMBER: P621731

CATALOG NUMBER: VLT-FA-150U-075D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6
2.5°	952.2	951.4	953.0	967.2	995.9	1021.9
5°	867.3	870.4	873.4	897.3	947.6	1016.5
7.5°	802.1	797.6	804.5	843.4	905.2	1004.1
10°	757.2	747.1	757.2	810.3	882.2	991.6
12.5°	714.9	702.3	718.1	776.3	863.2	975.0
15°	660.3	672.5	665.4	730.5	834.6	946.0
17.5°	673.2	734.4	686.2	690.7	806.2	916.2
20°	704.0	766.8	724.2	664.2	787.8	892.1
22.5°	731.8	779.2	740.7	641.8	769.5	870.6
25°	753.2	793.7	751.2	621.7	742.9	834.1
27.5°	754.3	759.9	754.7	620.0	710.1	797.9
30°	740.3	716.0	738.3	621.7	686.8	768.8
32.5°	700.4	672.9	691.9	618.4	663.2	730.7
35°	643.7	607.2	633.5	601.0	626.7	666.3
37.5°	583.8	537.6	574.0	566.6	595.6	579.8
40°	543.2	462.1	535.1	532.6	578.6	507.7
42.5°	491.2	422.3	483.9	505.2	559.9	467.1
45°	396.7	388.6	392.6	459.0	520.1	425.9
47.5°	362.7	357.3	360.7	417.0	475.1	407.8
50°	342.8	335.7	340.8	389.6	446.4	393.7
52.5°	315.2	295.9	313.2	352.3	416.7	370.5
55°	237.0	179.3	236.0	309.8	372.1	331.6
57.5°	139.1	103.6	136.0	269.6	315.3	290.3
60°	94.1	87.0	95.1	237.3	277.4	266.3
62.5°	86.0	83.7	86.2	165.2	243.7	242.3
65°	78.7	77.7	78.7	95.3	201.2	207.2
67.5°	71.3	70.3	72.1	73.2	158.8	171.6
70°	66.3	65.3	66.3	67.4	121.9	149.2
72.5°	60.5	59.5	60.5	61.5	85.7	127.7
75°	51.8	50.8	51.8	52.8	56.9	96.4
77.5°	41.9	41.9	42.9	42.9	39.8	66.9
80°	35.2	35.2	36.2	36.3	34.5	48.7
82.5°	28.6	27.8	29.6	30.5	28.5	34.6
85°	17.6	16.6	18.6	19.7	18.6	16.6
87.5°	10.3	9.5	11.1	11.6	10.2	5.0
90°	18.6	18.6	18.6	12.4	6.0	0.0
92.5°	38.5	43.3	38.5	27.2	20.9	14.8
95°	56.0	68.0	56.0	49.5	91.8	49.5
97.5°	107.3	92.8	107.3	363.7	176.2	87.8
100°	214.9	142.3	214.9	730.0	220.4	117.5
102.5°	567.0	310.5	567.0	987.3	254.9	147.2
105°	1430.4	946.5	1430.4	1119.7	294.6	191.8
107.5°	2081.7	1949.9	2081.7	1069.0	313.7	236.3
110°	2187.4	2350.7	2187.4	1039.3	338.6	266.0





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2125.6	2400.2	2125.6	1009.6	368.3	295.7
115°	2005.8	2344.5	2005.8	965.0	412.8	340.2
117.5°	1876.1	2224.5	1876.1	953.9	457.4	386.0
120°	1777.5	2140.4	1777.5	934.1	487.2	420.7
122.5°	1692.7	2026.6	1692.7	909.4	516.8	445.4
125°	1590.2	1880.6	1590.2	909.4	555.2	488.7
127.5°	1471.4	1758.1	1471.4	910.6	592.3	524.6
130°	1391.9	1664.1	1391.9	915.5	617.0	544.4
132.5°	1356.1	1579.9	1356.1	915.5	641.7	569.1
135°	1309.7	1503.2	1309.7	915.5	672.8	606.2
137.5°	1258.3	1424.0	1258.3	915.5	708.5	637.2
140°	1228.3	1379.5	1228.3	915.5	728.5	661.9
142.5°	1193.4	1335.0	1193.4	920.5	748.4	686.7
145°	1141.0	1262.0	1141.0	921.7	778.1	717.6
147.5°	1103.2	1196.4	1103.2	929.2	807.9	754.7
150°	1078.2	1156.8	1078.2	934.1	827.8	779.5
152.5°	1058.0	1122.2	1058.0	934.1	847.7	804.2
155°	1034.2	1082.6	1034.2	940.3	871.6	841.3
157.5°	1019.0	1054.1	1019.0	947.7	900.0	871.0
160°	1009.0	1039.3	1009.0	952.7	915.0	890.8
162.5°	1003.9	1024.4	1003.9	957.6	929.8	905.7
165°	990.2	1008.3	990.2	965.0	946.2	934.1
167.5°	983.8	994.7	983.8	971.2	961.1	950.2
170°	983.7	989.8	983.7	971.2	971.1	965.0
172.5°	978.8	984.8	978.8	976.2	980.9	970.0
175°	977.3	971.2	977.3	983.6	989.6	983.6
177.5°	983.5	978.6	983.5	983.6	988.4	983.6
180°	983.6	983.6	983.6	983.6	983.6	983.6

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