

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: P621694

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

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621694  
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-100U-125D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

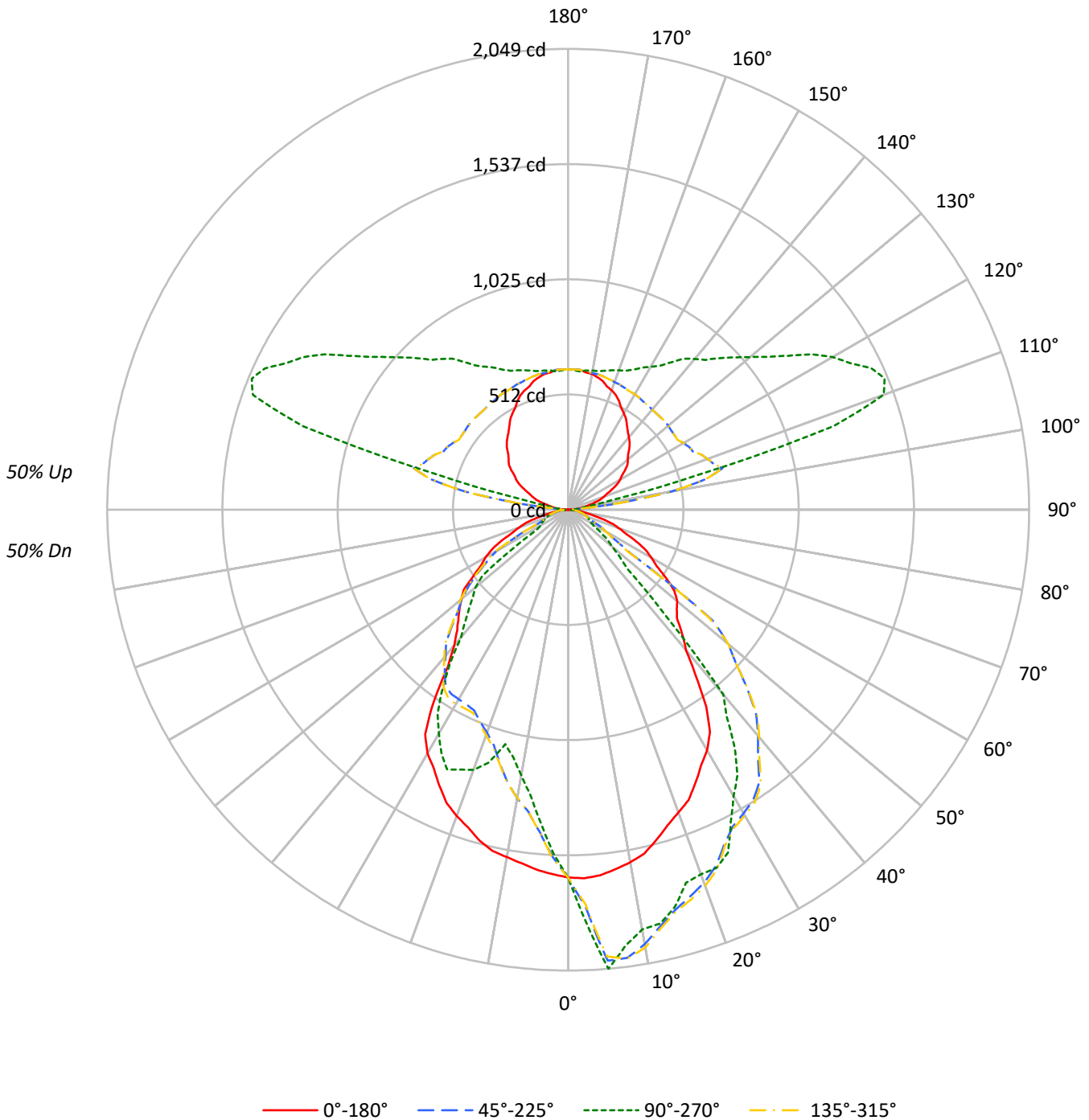
Lumens per Lamp: N/A  
Luminaire Lumens: 6724.5 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 67.7  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	99	95	91	88	91	88	85	82	74	72	70	62	61	59	51	50	49	44				
2	91	84	78	73	83	78	73	68	66	63	59	56	53	51	46	44	43	38				
3	83	74	67	62	77	69	63	58	59	55	51	50	47	44	41	39	37	33				
4	76	66	59	53	70	62	55	50	53	48	44	45	41	38	38	35	33	29				
5	70	59	52	46	65	55	49	43	48	43	39	41	37	34	34	31	29	26				
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23				
7	60	49	41	36	56	45	39	34	39	34	30	34	30	27	29	26	23	21				
8	56	44	37	32	52	41	35	30	36	31	27	31	27	24	26	23	21	19				
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	21	19	17				
10	49	37	30	26	45	35	29	24	31	26	22	27	23	20	23	20	17	16				

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

	0°	90°	180°	270°
0°	11733	11733	11733	11733
5°	11754	14760	11574	10064
10°	11598	13805	11429	8738
15°	11282	13592	11319	8020
20°	10936	13171	11063	9399
25°	10601	13315	10720	10088
30°	10226	12183	10364	9523
35°	9369	11292	9136	8539
40°	7635	10049	7369	6949
45°	6937	3731	7005	6330
50°	7056	2841	6926	6016
55°	6658	2206	6429	3599
60°	6135	1695	6087	2005
65°	5649	1751	5535	2117
70°	5025	1851	4886	2199
75°	4289	1938	4103	2260
80°	3232	1992	3025	2339
85°	2190	1778	1918	2190

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12846 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.7	2.3
10°-20°	432.1	6.4
20°-30°	646.5	9.6
30°-40°	735.2	10.9
40°-50°	628.8	9.4
50°-60°	424.0	6.3
60°-70°	218.9	3.3
70°-80°	98.8	1.5
80°-90°	30.8	0.5
90°-100°	76.7	1.1
100°-110°	546.7	8.1
110°-120°	742.1	11.0
120°-130°	604.0	9.0
130°-140°	485.8	7.2
140°-150°	383.0	5.7
150°-160°	280.1	4.2
160°-170°	173.9	2.6
170°-180°	59.3	0.9
0°-30°	1236.3	18.4
0°-40°	1971.5	29.3
0°-60°	3024.3	45.0
0°-90°	3372.8	50.2
90°-120°	1365.5	20.3
90°-150°	2838.4	42.2
90°-180°	3352.0	49.8
0°-180°	6724.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1635	1635	1635	1635	1635	
5°	1632	2049	1607	1397	1632	154
15°	1519	1830	1524	1080	1519	427
25°	1339	1682	1354	1274	1339	616
35°	1070	1289	1043	975	1070	654
45°	684	368	690	624	684	542
55°	532	176	514	288	532	474
65°	333	103	326	125	333	329
75°	155	70	148	82	155	165
85°	27	22	23	27	27	34
90°	0	12	0	12	0	2
95°	31	43	31	43	31	35
105°	122	600	122	600	122	128
115°	216	1487	216	1487	216	214
125°	310	1193	310	1193	310	275
135°	385	954	385	954	385	296
145°	455	800	455	800	455	286
155°	534	687	534	687	534	245
165°	593	640	593	640	593	166
175°	624	616	624	616	624	59
180°	624	624	624	624	624	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1640.3	1696.3	1766.7	1815.1	1835.9	1815.1	1754.7	1695.8	1621.7	1599.6	1547.2
5°	1631.7	1804.1	2012.6	2037.8	2049.1	2037.8	1994.3	1793.7	1606.7	1527.0	1440.4
7.5°	1611.7	1913.2	2010.2	1954.0	1954.3	1964.7	2013.2	1903.9	1585.8	1460.5	1354.2
10°	1591.7	1973.9	1961.0	1879.8	1894.5	1888.0	1976.0	1962.0	1568.5	1423.7	1302.3
12.5°	1565.1	1992.9	1895.8	1869.2	1885.1	1876.0	1905.4	1982.5	1553.8	1397.4	1242.5
15°	1518.6	1965.8	1841.2	1829.6	1829.6	1837.7	1849.6	1974.0	1523.6	1349.5	1169.3
17.5°	1470.7	1911.7	1803.3	1745.6	1739.4	1750.2	1817.0	1925.6	1480.6	1296.5	1098.4
20°	1432.1	1874.4	1764.7	1697.2	1724.8	1700.4	1779.7	1884.6	1448.7	1263.3	1054.5
22.5°	1397.5	1828.1	1715.5	1686.7	1723.5	1687.4	1729.1	1838.2	1411.4	1226.0	1021.2
25°	1338.9	1750.4	1641.6	1668.6	1681.6	1668.6	1648.3	1757.2	1353.9	1178.3	986.3
27.5°	1280.7	1668.4	1586.4	1604.5	1564.8	1595.4	1595.4	1668.7	1294.7	1122.6	975.7
30°	1234.1	1611.4	1558.5	1532.1	1470.3	1519.1	1570.1	1611.8	1250.8	1086.5	973.0
32.5°	1172.9	1559.3	1530.5	1439.5	1399.8	1433.0	1543.5	1558.3	1182.9	1053.8	970.3
35°	1069.5	1485.8	1480.3	1329.7	1289.0	1319.9	1491.9	1482.0	1042.9	1002.2	949.7
37.5°	930.8	1420.3	1384.2	1218.7	1154.0	1210.6	1395.1	1413.2	877.2	954.9	901.5
40°	815.0	1376.1	1312.3	1136.2	1072.8	1128.1	1320.6	1372.2	786.7	921.7	848.3
42.5°	749.8	1336.9	1236.5	1048.9	656.3	1035.6	1244.8	1331.9	730.8	878.8	801.7
45°	683.6	1265.8	1126.0	580.6	367.6	553.0	1127.7	1248.1	690.3	813.9	730.2
47.5°	654.7	1178.3	1010.6	349.7	310.4	339.6	1009.6	1159.1	655.0	748.7	662.0
50°	632.0	1123.2	928.1	308.1	254.5	296.8	929.8	1105.0	620.4	705.0	615.4
52.5°	594.8	1057.3	809.7	255.3	219.9	249.2	790.1	1036.6	584.5	657.3	556.9
55°	532.2	930.7	337.6	200.7	176.3	192.6	321.0	899.4	513.9	582.3	489.0
57.5°	466.0	792.3	236.8	156.2	136.7	154.6	235.2	760.5	457.4	493.2	426.5
60°	427.5	699.1	192.9	131.1	118.1	129.5	191.3	671.3	424.1	433.9	369.2
62.5°	388.9	604.5	159.7	115.3	111.4	113.7	159.3	574.1	382.9	383.5	260.1
65°	332.7	457.9	118.1	104.7	103.1	103.1	114.8	441.5	326.0	316.2	149.7
67.5°	275.4	328.8	94.8	96.4	94.8	94.8	93.1	319.5	268.8	252.2	113.1
70°	239.5	252.5	88.2	89.8	88.2	88.2	86.5	245.9	232.9	195.5	106.4
72.5°	204.9	172.4	81.5	81.8	81.5	81.5	79.8	161.8	198.3	137.4	97.1
75°	154.7	86.4	69.9	69.9	69.9	69.9	68.2	83.0	148.0	89.5	83.2
77.5°	107.4	57.0	57.9	57.5	57.5	56.2	56.2	56.6	101.1	61.8	67.2
80°	78.2	47.3	49.9	48.2	48.2	48.2	48.2	45.5	73.2	52.0	56.6
82.5°	55.6	37.7	40.6	38.9	38.9	38.9	38.9	37.2	50.6	42.4	45.9
85°	26.6	25.0	26.6	23.2	21.6	23.2	24.9	24.9	23.3	28.2	29.9
87.5°	8.0	12.7	12.2	10.3	10.3	10.3	10.9	11.3	6.7	13.9	13.5
90°	0.0	3.8	7.8	11.8	11.8	11.8	7.8	3.8	0.0	3.8	7.8
92.5°	9.4	13.3	17.3	24.4	27.5	24.4	17.3	13.3	9.4	13.3	17.3
95°	31.4	58.3	31.4	35.5	43.2	35.5	31.4	58.3	31.4	58.3	31.4
97.5°	55.7	111.7	230.7	68.1	58.9	68.1	230.7	111.7	55.7	111.7	230.7
100°	74.6	139.8	463.1	136.3	90.3	136.3	463.1	139.8	74.6	139.8	463.1
102.5°	93.4	161.7	626.3	359.7	197.0	359.7	626.3	161.7	93.4	161.7	626.3
105°	121.7	186.9	710.3	907.4	600.4	907.4	710.3	186.9	121.7	186.9	710.3
107.5°	149.9	199.0	678.1	1320.6	1236.9	1320.6	678.1	199.0	149.9	199.0	678.1
110°	168.7	214.8	659.3	1387.6	1491.2	1387.6	659.3	214.8	168.7	214.8	659.3



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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°	187.6	233.6	640.4	1348.4	1522.6	1348.4	640.4	233.6	187.6	233.6	640.4
115°	215.8	261.9	612.2	1272.4	1487.3	1272.4	612.2	261.9	215.8	261.9	612.2
117.5°	244.9	290.1	605.1	1190.1	1411.2	1190.1	605.1	290.1	244.9	290.1	605.1
120°	266.8	309.1	592.6	1127.6	1357.8	1127.6	592.6	309.1	266.8	309.1	592.6
122.5°	282.5	327.8	576.9	1073.8	1285.6	1073.8	576.9	327.8	282.5	327.8	576.9
125°	310.0	352.2	576.9	1008.8	1193.0	1008.8	576.9	352.2	310.0	352.2	576.9
127.5°	332.8	375.7	577.6	933.4	1115.3	933.4	577.6	375.7	332.8	375.7	577.6
130°	345.3	391.4	580.8	883.0	1055.6	883.0	580.8	391.4	345.3	391.4	580.8
132.5°	361.0	407.1	580.8	860.3	1002.2	860.3	580.8	407.1	361.0	407.1	580.8
135°	384.6	426.8	580.8	830.8	953.6	830.8	580.8	426.8	384.6	426.8	580.8
137.5°	404.2	449.5	580.8	798.2	903.4	798.2	580.8	449.5	404.2	449.5	580.8
140°	419.9	462.1	580.8	779.2	875.1	779.2	580.8	462.1	419.9	462.1	580.8
142.5°	435.6	474.7	583.9	757.1	846.8	757.1	583.9	474.7	435.6	474.7	583.9
145°	455.2	493.6	584.7	723.8	800.5	723.8	584.7	493.6	455.2	493.6	584.7
147.5°	478.8	512.5	589.4	699.9	758.9	699.9	589.4	512.5	478.8	512.5	589.4
150°	494.5	525.1	592.6	683.9	733.8	683.9	592.6	525.1	494.5	525.1	592.6
152.5°	510.1	537.8	592.6	671.2	711.9	671.2	592.6	537.8	510.1	537.8	592.6
155°	533.7	552.9	596.5	656.0	686.7	656.0	596.5	552.9	533.7	552.9	596.5
157.5°	552.5	570.9	601.2	646.4	668.7	646.4	601.2	570.9	552.5	570.9	601.2
160°	565.1	580.4	604.3	640.1	659.3	640.1	604.3	580.4	565.1	580.4	604.3
162.5°	574.5	589.9	607.5	636.8	649.9	636.8	607.5	589.9	574.5	589.9	607.5
165°	592.6	600.2	612.2	628.1	639.6	628.1	612.2	600.2	592.6	600.2	612.2
167.5°	602.8	609.7	616.1	624.1	631.0	624.1	616.1	609.7	602.8	609.7	616.1
170°	612.2	616.0	616.1	624.0	627.9	624.0	616.1	616.0	612.2	616.0	616.1
172.5°	615.3	622.2	619.2	620.9	624.7	620.9	619.2	622.2	615.3	622.2	619.2
175°	624.0	627.8	624.0	619.9	616.1	619.9	624.0	627.8	624.0	627.8	624.0
177.5°	624.0	627.0	624.0	623.9	620.8	623.9	624.0	627.0	624.0	627.0	624.0
180°	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1528.5	1527.2	1529.8	1552.5	1598.7	1640.3
5°	1392.3	1397.1	1402.0	1440.4	1521.1	1631.7
7.5°	1287.5	1280.4	1291.4	1353.9	1453.0	1611.7
10°	1215.5	1199.2	1215.5	1300.7	1416.1	1591.7
12.5°	1147.5	1127.4	1152.7	1246.1	1385.6	1565.1
15°	1059.9	1079.5	1068.1	1172.6	1339.7	1518.6
17.5°	1080.7	1178.9	1101.5	1108.7	1294.0	1470.7
20°	1130.0	1230.8	1162.5	1066.2	1264.6	1432.1
22.5°	1174.7	1250.8	1189.0	1030.2	1235.2	1397.5
25°	1209.0	1274.1	1205.8	998.0	1192.6	1338.9
27.5°	1210.7	1219.8	1211.4	995.3	1139.9	1280.7
30°	1188.3	1149.3	1185.1	998.0	1102.4	1234.1
32.5°	1124.4	1080.1	1110.7	992.6	1064.6	1172.9
35°	1033.2	974.7	1017.0	964.7	1006.1	1069.5
37.5°	937.1	862.9	921.4	909.5	956.1	930.8
40°	871.9	741.8	858.9	854.9	928.8	815.0
42.5°	788.5	677.9	776.8	811.0	898.8	749.8
45°	636.7	623.7	630.2	736.8	834.8	683.6
47.5°	582.3	573.5	579.0	669.3	762.6	654.7
50°	550.3	538.9	547.0	625.4	716.6	632.0
52.5°	505.9	475.0	502.7	565.5	668.9	594.8
55°	380.4	287.7	378.8	497.3	597.3	532.2
57.5°	223.2	166.3	218.4	432.8	506.1	466.0
60°	151.1	139.7	152.7	380.9	445.3	427.5
62.5°	138.0	134.4	138.3	265.1	391.1	388.9
65°	126.4	124.7	126.4	153.0	322.9	332.7
67.5°	114.4	112.8	115.7	117.4	254.9	275.4
70°	106.4	104.8	106.4	108.1	195.6	239.5
72.5°	97.1	95.5	97.1	98.8	137.6	204.9
75°	83.1	81.5	83.1	84.8	91.3	154.7
77.5°	67.2	67.2	68.8	68.9	63.9	107.4
80°	56.6	56.6	58.2	58.2	55.4	78.2
82.5°	45.9	44.6	47.5	48.9	45.8	55.6
85°	28.2	26.6	29.9	31.6	29.9	26.6
87.5°	13.0	11.7	14.3	16.2	15.3	8.0
90°	11.8	11.8	11.8	7.8	3.8	0.0
92.5°	24.4	27.5	24.4	17.3	13.3	9.4
95°	35.5	43.2	35.5	31.4	58.3	31.4
97.5°	68.1	58.9	68.1	230.7	111.7	55.7
100°	136.3	90.3	136.3	463.1	139.8	74.6
102.5°	359.7	197.0	359.7	626.3	161.7	93.4
105°	907.4	600.4	907.4	710.3	186.9	121.7
107.5°	1320.6	1236.9	1320.6	678.1	199.0	149.9
110°	1387.6	1491.2	1387.6	659.3	214.8	168.7





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1348.4	1522.6	1348.4	640.4	233.6	187.6
115°	1272.4	1487.3	1272.4	612.2	261.9	215.8
117.5°	1190.1	1411.2	1190.1	605.1	290.1	244.9
120°	1127.6	1357.8	1127.6	592.6	309.1	266.8
122.5°	1073.8	1285.6	1073.8	576.9	327.8	282.5
125°	1008.8	1193.0	1008.8	576.9	352.2	310.0
127.5°	933.4	1115.3	933.4	577.6	375.7	332.8
130°	883.0	1055.6	883.0	580.8	391.4	345.3
132.5°	860.3	1002.2	860.3	580.8	407.1	361.0
135°	830.8	953.6	830.8	580.8	426.8	384.6
137.5°	798.2	903.4	798.2	580.8	449.5	404.2
140°	779.2	875.1	779.2	580.8	462.1	419.9
142.5°	757.1	846.8	757.1	583.9	474.7	435.6
145°	723.8	800.5	723.8	584.7	493.6	455.2
147.5°	699.9	758.9	699.9	589.4	512.5	478.8
150°	683.9	733.8	683.9	592.6	525.1	494.5
152.5°	671.2	711.9	671.2	592.6	537.8	510.1
155°	656.0	686.7	656.0	596.5	552.9	533.7
157.5°	646.4	668.7	646.4	601.2	570.9	552.5
160°	640.1	659.3	640.1	604.3	580.4	565.1
162.5°	636.8	649.9	636.8	607.5	589.9	574.5
165°	628.1	639.6	628.1	612.2	600.2	592.6
167.5°	624.1	631.0	624.1	616.1	609.7	602.8
170°	624.0	627.9	624.0	616.1	616.0	612.2
172.5°	620.9	624.7	620.9	619.2	622.2	615.3
175°	619.9	616.1	619.9	624.0	627.8	624.0
177.5°	623.9	620.8	623.9	624.0	627.0	624.0
180°	624.0	624.0	624.0	624.0	624.0	624.0

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