

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: P621695

Luminaire Tested: VLT-FA-100U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621695
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-935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

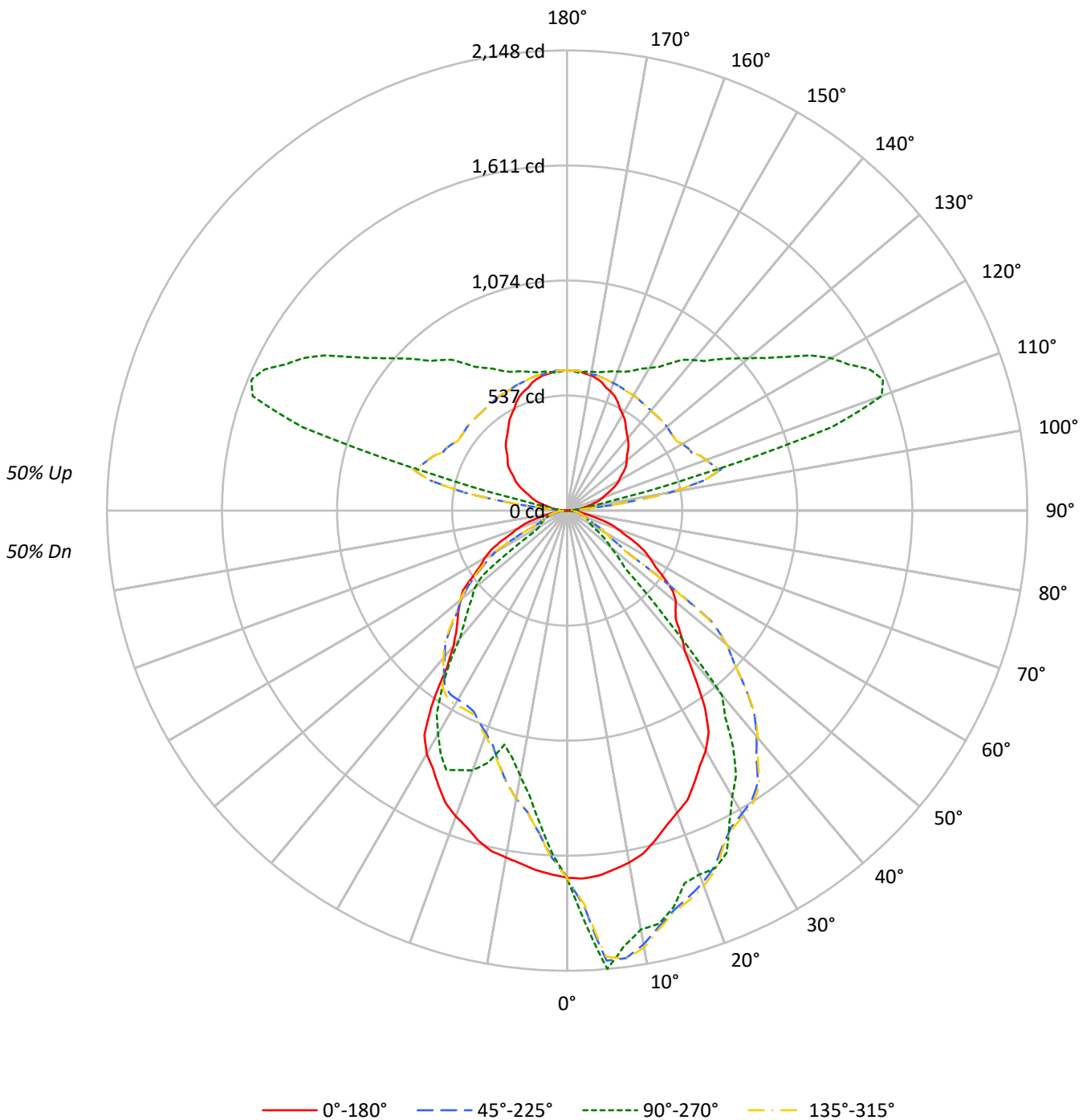
Lumens per Lamp: N/A
Luminaire Lumens: 7047.3 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 67.7
Input Voltage (V): 120
Input Current (A_{in}): 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										
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	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°	12296	12296	12296	12296
5°	12318	15469	12129	10547
10°	12155	14467	11977	9158
15°	11823	14245	11862	8405
20°	11461	13804	11594	9850
25°	11110	13953	11235	10572
30°	10717	12768	10861	9981
35°	9818	11834	9574	8948
40°	8001	10532	7724	7282
45°	7270	3909	7341	6634
50°	7395	2977	7259	6305
55°	6979	2312	6738	3773
60°	6430	1777	6379	2101
65°	5919	1836	5800	2219
70°	5266	1939	5119	2304
75°	4494	2030	4300	2368
80°	3384	2087	3170	2451
85°	2297	1869	2009	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13463 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	2.3
10°-20°	452.8	6.4
20°-30°	677.5	9.6
30°-40°	770.5	10.9
40°-50°	659.0	9.4
50°-60°	444.4	6.3
60°-70°	229.4	3.3
70°-80°	103.6	1.5
80°-90°	32.3	0.5
90°-100°	80.4	1.1
100°-110°	572.9	8.1
110°-120°	777.8	11.0
120°-130°	633.0	9.0
130°-140°	509.1	7.2
140°-150°	401.4	5.7
150°-160°	293.5	4.2
160°-170°	182.3	2.6
170°-180°	62.2	0.9
0°-30°	1295.6	18.4
0°-40°	2066.1	29.3
0°-60°	3169.5	45.0
0°-90°	3534.7	50.2
90°-120°	1431.1	20.3
90°-150°	2974.6	42.2
90°-180°	3513.0	49.8
0°-180°	7047.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1714	1714	1714	1714	1714	
5°	1710	2148	1684	1464	1710	162
15°	1591	1917	1597	1131	1591	448
25°	1403	1762	1419	1335	1403	646
35°	1121	1351	1093	1021	1121	685
45°	716	385	723	654	716	568
55°	558	185	539	302	558	497
65°	349	108	342	131	349	345
75°	162	73	155	85	162	173
85°	28	23	24	28	28	36
90°	0	12	0	12	0	3
95°	33	45	33	45	33	37
105°	128	629	128	629	128	134
115°	226	1559	226	1559	226	225
125°	325	1250	325	1250	325	289
135°	403	999	403	999	403	310
145°	477	839	477	839	477	300
155°	559	720	559	720	559	257
165°	621	670	621	670	621	174
175°	654	646	654	646	654	62
180°	654	654	654	654	654	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5
2.5°	1719.0	1777.7	1851.5	1902.2	1924.0	1902.2	1839.0	1777.2	1699.5	1676.3	1621.4
5°	1710.0	1890.6	2109.1	2135.5	2147.5	2135.5	2090.0	1879.8	1683.8	1600.3	1509.5
7.5°	1689.0	2005.0	2106.7	2047.8	2048.1	2059.0	2109.8	1995.2	1661.9	1530.6	1419.2
10°	1668.1	2068.7	2055.1	1970.0	1985.4	1978.6	2070.8	2056.2	1643.7	1492.0	1364.8
12.5°	1640.2	2088.5	1986.8	1958.9	1975.6	1966.1	1996.9	2077.7	1628.4	1464.4	1302.1
15°	1591.4	2060.1	1929.6	1917.4	1917.4	1925.9	1938.3	2068.8	1596.7	1414.3	1225.4
17.5°	1541.2	2003.5	1889.9	1829.4	1822.9	1834.2	1904.1	2018.0	1551.7	1358.8	1151.1
20°	1500.8	1964.4	1849.4	1778.6	1807.6	1782.0	1865.1	1975.0	1518.2	1323.9	1105.1
22.5°	1464.5	1915.9	1797.8	1767.7	1806.2	1768.3	1812.1	1926.4	1479.2	1284.9	1070.3
25°	1403.2	1834.4	1720.4	1748.6	1762.3	1748.6	1727.4	1841.5	1418.9	1234.8	1033.6
27.5°	1342.2	1748.5	1662.6	1681.5	1639.9	1671.9	1672.0	1748.8	1356.8	1176.5	1022.5
30°	1293.4	1688.8	1633.3	1605.7	1540.9	1592.0	1645.5	1689.2	1310.8	1138.7	1019.7
32.5°	1229.2	1634.2	1604.0	1508.6	1467.0	1501.7	1617.6	1633.0	1239.7	1104.4	1016.9
35°	1120.8	1557.1	1551.3	1393.5	1350.9	1383.3	1563.5	1553.1	1092.9	1050.3	995.3
37.5°	975.4	1488.4	1450.6	1277.2	1209.4	1268.7	1462.1	1481.1	919.3	1000.8	944.8
40°	854.1	1442.1	1375.3	1190.8	1124.3	1182.2	1384.0	1438.0	824.5	965.9	889.0
42.5°	785.8	1401.1	1295.8	1099.3	687.8	1085.3	1304.5	1395.8	765.9	921.0	840.2
45°	716.4	1326.6	1180.1	608.5	385.2	579.5	1181.8	1308.0	723.4	852.9	765.2
47.5°	686.1	1234.9	1059.1	366.5	325.3	355.9	1058.1	1214.8	686.4	784.6	693.7
50°	662.4	1177.1	972.6	322.9	266.7	311.0	974.4	1158.1	650.2	738.8	644.9
52.5°	623.3	1108.0	848.5	267.6	230.4	261.1	828.0	1086.3	612.5	688.9	583.6
55°	557.8	975.4	353.8	210.3	184.8	201.8	336.4	942.5	538.6	610.2	512.5
57.5°	488.4	830.3	248.2	163.7	143.3	162.0	246.5	797.0	479.3	516.8	446.9
60°	448.0	732.6	202.2	137.4	123.8	135.7	200.5	703.5	444.5	454.7	387.0
62.5°	407.5	633.5	167.3	120.9	116.8	119.2	167.0	601.7	401.3	401.9	272.6
65°	348.6	479.9	123.8	109.8	108.1	108.1	120.3	462.7	341.6	331.4	156.9
67.5°	288.7	344.6	99.4	101.1	99.4	99.4	97.6	334.9	281.7	264.3	118.5
70°	251.0	264.6	92.4	94.1	92.4	92.4	90.6	257.7	244.0	204.8	111.6
72.5°	214.7	180.7	85.4	85.8	85.4	85.4	83.7	169.6	207.8	144.0	101.8
75°	162.1	90.5	73.2	73.2	73.2	73.2	71.5	87.0	155.1	93.8	87.2
77.5°	112.6	59.8	60.7	60.3	60.3	58.9	58.9	59.3	106.0	64.7	70.4
80°	81.9	49.5	52.3	50.5	50.5	50.5	50.5	47.7	76.7	54.5	59.3
82.5°	58.2	39.5	42.5	40.8	40.8	40.8	40.8	39.0	53.0	44.5	48.1
85°	27.9	26.2	27.9	24.4	22.7	24.4	26.1	26.1	24.4	29.5	31.4
87.5°	8.4	13.3	12.8	10.8	10.8	10.8	11.4	11.9	7.0	14.6	14.2
90°	0.0	4.0	8.2	12.3	12.3	12.3	8.2	4.0	0.0	4.0	8.2
92.5°	9.9	13.9	18.1	25.6	28.8	25.6	18.1	13.9	9.9	13.9	18.1
95°	32.9	61.0	32.9	37.2	45.2	37.2	32.9	61.0	32.9	61.0	32.9
97.5°	58.4	117.1	241.8	71.3	61.7	71.3	241.8	117.1	58.4	117.1	241.8
100°	78.1	146.5	485.3	142.8	94.6	142.8	485.3	146.5	78.1	146.5	485.3
102.5°	97.9	169.5	656.4	376.9	206.5	376.9	656.4	169.5	97.9	169.5	656.4
105°	127.5	195.8	744.4	950.9	629.2	950.9	744.4	195.8	127.5	195.8	744.4
107.5°	157.1	208.6	710.6	1383.9	1296.3	1383.9	710.6	208.6	157.1	208.6	710.6
110°	176.8	225.1	690.9	1454.2	1562.8	1454.2	690.9	225.1	176.8	225.1	690.9



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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°	196.6	244.8	671.2	1413.1	1595.7	1413.1	671.2	244.8	196.6	244.8	671.2
115°	226.2	274.4	641.6	1333.5	1558.7	1333.5	641.6	274.4	226.2	274.4	641.6
117.5°	256.6	304.1	634.2	1247.3	1478.9	1247.3	634.2	304.1	256.6	304.1	634.2
120°	279.7	323.9	621.0	1181.7	1422.9	1181.7	621.0	323.9	279.7	323.9	621.0
122.5°	296.1	343.6	604.5	1125.3	1347.3	1125.3	604.5	343.6	296.1	343.6	604.5
125°	324.9	369.1	604.5	1057.2	1250.2	1057.2	604.5	369.1	324.9	369.1	604.5
127.5°	348.7	393.8	605.4	978.2	1168.8	978.2	605.4	393.8	348.7	393.8	605.4
130°	361.9	410.2	608.7	925.3	1106.3	925.3	608.7	410.2	361.9	410.2	608.7
132.5°	378.4	426.6	608.7	901.6	1050.3	901.6	608.7	426.6	378.4	426.6	608.7
135°	403.0	447.3	608.7	870.7	999.3	870.7	608.7	447.3	403.0	447.3	608.7
137.5°	423.6	471.0	608.7	836.5	946.7	836.5	608.7	471.0	423.6	471.0	608.7
140°	440.0	484.3	608.7	816.6	917.1	816.6	608.7	484.3	440.0	484.3	608.7
142.5°	456.5	497.5	611.9	793.4	887.5	793.4	611.9	497.5	456.5	497.5	611.9
145°	477.1	517.3	612.8	758.5	839.0	758.5	612.8	517.3	477.1	517.3	612.8
147.5°	501.7	537.1	617.7	733.4	795.4	733.4	617.7	537.1	501.7	537.1	617.7
150°	518.2	550.4	621.0	716.8	769.0	716.8	621.0	550.4	518.2	550.4	621.0
152.5°	534.6	563.6	621.0	703.4	746.0	703.4	621.0	563.6	534.6	563.6	621.0
155°	559.3	579.4	625.1	687.5	719.7	687.5	625.1	579.4	559.3	579.4	625.1
157.5°	579.0	598.3	630.0	677.5	700.8	677.5	630.0	598.3	579.0	598.3	630.0
160°	592.2	608.3	633.3	670.8	690.9	670.8	633.3	608.3	592.2	608.3	633.3
162.5°	602.1	618.2	636.6	667.4	681.0	667.4	636.6	618.2	602.1	618.2	636.6
165°	621.0	629.0	641.6	658.3	670.3	658.3	641.6	629.0	621.0	629.0	641.6
167.5°	631.7	638.9	645.7	654.1	661.3	654.1	645.7	638.9	631.7	638.9	645.7
170°	641.6	645.6	645.7	654.0	658.0	654.0	645.7	645.6	641.6	645.6	645.7
172.5°	644.8	652.1	649.0	650.7	654.7	650.7	649.0	652.1	644.8	652.1	649.0
175°	653.9	657.9	653.9	649.7	645.7	649.7	653.9	657.9	653.9	657.9	653.9
177.5°	653.9	657.1	653.9	653.8	650.6	653.8	653.9	657.1	653.9	657.1	653.9
180°	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9	653.9



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5
2.5°	1601.9	1600.5	1603.2	1627.0	1675.4	1719.0
5°	1459.1	1464.2	1469.3	1509.5	1594.1	1710.0
7.5°	1349.3	1341.8	1353.4	1418.9	1522.7	1689.0
10°	1273.8	1256.8	1273.8	1363.1	1484.1	1668.1
12.5°	1202.6	1181.5	1208.1	1305.9	1452.1	1640.2
15°	1110.8	1131.3	1119.3	1228.9	1404.0	1591.4
17.5°	1132.6	1235.5	1154.4	1161.9	1356.1	1541.2
20°	1184.2	1289.9	1218.3	1117.3	1325.2	1500.8
22.5°	1231.0	1310.8	1246.0	1079.7	1294.4	1464.5
25°	1267.0	1335.2	1263.6	1045.9	1249.8	1403.2
27.5°	1268.8	1278.4	1269.5	1043.1	1194.6	1342.2
30°	1245.4	1204.5	1242.0	1045.9	1155.3	1293.4
32.5°	1178.3	1132.0	1164.0	1040.3	1115.7	1229.2
35°	1082.8	1021.4	1065.8	1011.0	1054.3	1120.8
37.5°	982.0	904.3	965.7	953.1	1002.0	975.4
40°	913.8	777.4	900.1	895.9	973.4	854.1
42.5°	826.4	710.5	814.1	849.9	941.9	785.8
45°	667.3	653.7	660.5	772.2	874.9	716.4
47.5°	610.2	601.0	606.8	701.4	799.2	686.1
50°	576.7	564.8	573.3	655.4	751.0	662.4
52.5°	530.2	497.8	526.8	592.6	701.0	623.3
55°	398.7	301.6	397.0	521.2	626.0	557.8
57.5°	234.0	174.3	228.8	453.6	530.3	488.4
60°	158.3	146.4	160.1	399.2	466.7	448.0
62.5°	144.6	140.8	144.9	277.8	409.9	407.5
65°	132.4	130.7	132.4	160.4	338.4	348.6
67.5°	119.9	118.2	121.2	123.1	267.2	288.7
70°	111.5	109.8	111.5	113.3	205.0	251.0
72.5°	101.8	100.1	101.8	103.5	144.2	214.7
75°	87.1	85.4	87.1	88.9	95.6	162.1
77.5°	70.4	70.4	72.1	72.2	66.9	112.6
80°	59.3	59.3	61.0	61.0	58.1	81.9
82.5°	48.1	46.7	49.8	51.2	48.0	58.2
85°	29.6	27.9	31.3	33.1	31.3	27.9
87.5°	13.6	12.2	15.0	17.0	16.0	8.4
90°	12.3	12.3	12.3	8.2	4.0	0.0
92.5°	25.6	28.8	25.6	18.1	13.9	9.9
95°	37.2	45.2	37.2	32.9	61.0	32.9
97.5°	71.3	61.7	71.3	241.8	117.1	58.4
100°	142.8	94.6	142.8	485.3	146.5	78.1
102.5°	376.9	206.5	376.9	656.4	169.5	97.9
105°	950.9	629.2	950.9	744.4	195.8	127.5
107.5°	1383.9	1296.3	1383.9	710.6	208.6	157.1
110°	1454.2	1562.8	1454.2	690.9	225.1	176.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1413.1	1595.7	1413.1	671.2	244.8	196.6
115°	1333.5	1558.7	1333.5	641.6	274.4	226.2
117.5°	1247.3	1478.9	1247.3	634.2	304.1	256.6
120°	1181.7	1422.9	1181.7	621.0	323.9	279.7
122.5°	1125.3	1347.3	1125.3	604.5	343.6	296.1
125°	1057.2	1250.2	1057.2	604.5	369.1	324.9
127.5°	978.2	1168.8	978.2	605.4	393.8	348.7
130°	925.3	1106.3	925.3	608.7	410.2	361.9
132.5°	901.6	1050.3	901.6	608.7	426.6	378.4
135°	870.7	999.3	870.7	608.7	447.3	403.0
137.5°	836.5	946.7	836.5	608.7	471.0	423.6
140°	816.6	917.1	816.6	608.7	484.3	440.0
142.5°	793.4	887.5	793.4	611.9	497.5	456.5
145°	758.5	839.0	758.5	612.8	517.3	477.1
147.5°	733.4	795.4	733.4	617.7	537.1	501.7
150°	716.8	769.0	716.8	621.0	550.4	518.2
152.5°	703.4	746.0	703.4	621.0	563.6	534.6
155°	687.5	719.7	687.5	625.1	579.4	559.3
157.5°	677.5	700.8	677.5	630.0	598.3	579.0
160°	670.8	690.9	670.8	633.3	608.3	592.2
162.5°	667.4	681.0	667.4	636.6	618.2	602.1
165°	658.3	670.3	658.3	641.6	629.0	621.0
167.5°	654.1	661.3	654.1	645.7	638.9	631.7
170°	654.0	658.0	654.0	645.7	645.6	641.6
172.5°	650.7	654.7	650.7	649.0	652.1	644.8
175°	649.7	645.7	649.7	653.9	657.9	653.9
177.5°	653.8	650.6	653.8	653.9	657.1	653.9
180°	653.9	653.9	653.9	653.9	653.9	653.9

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