

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: P621646

Luminaire Tested: VLT-FA-075U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621646
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-075U-125D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

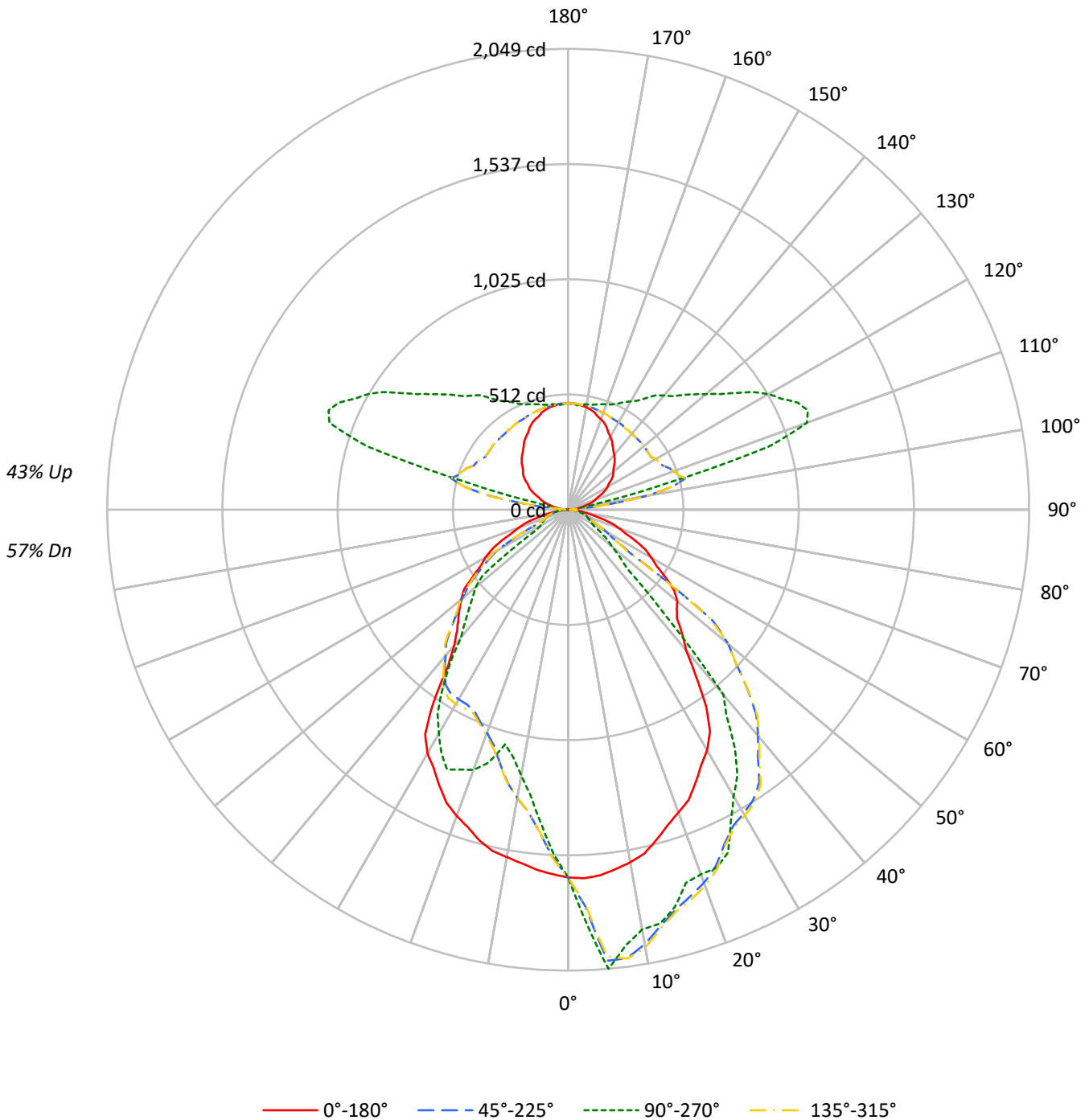
Lumens per Lamp: N/A
Luminaire Lumens: 5910.2 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 59.5
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					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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63	57				
1	100	96	93	90	93	90	87	84	78	76	74	67	65	64	57	56	55	50				
2	92	85	80	75	86	80	75	71	69	66	63	60	57	55	51	49	48	43				
3	85	76	69	63	79	71	65	60	62	58	54	54	50	48	46	44	42	38				
4	78	68	60	54	72	64	57	52	56	51	47	49	45	42	42	39	37	33				
5	72	61	53	47	67	57	50	45	50	45	41	44	40	37	38	35	32	29				
6	66	55	47	41	62	52	45	40	46	40	36	40	36	32	35	32	29	26				
7	62	50	42	37	57	47	40	35	42	36	32	37	32	29	32	29	26	24				
8	57	45	38	33	54	43	36	31	38	33	29	34	29	26	30	26	24	21				
9	54	42	34	29	50	39	33	28	35	30	26	31	27	24	27	24	21	19				
10	50	38	31	27	47	36	30	26	33	27	24	29	25	22	25	22	20	18				

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	2.7
10°-20°	432.1	7.3
20°-30°	646.5	10.9
30°-40°	735.2	12.4
40°-50°	628.8	10.6
50°-60°	424.0	7.2
60°-70°	218.9	3.7
70°-80°	98.8	1.7
80°-90°	30.5	0.5
90°-100°	58.1	1.0
100°-110°	413.9	7.0
110°-120°	561.9	9.5
120°-130°	457.3	7.7
130°-140°	367.8	6.2
140°-150°	290.0	4.9
150°-160°	212.0	3.6
160°-170°	131.7	2.2
170°-180°	44.9	0.8
0°-30°	1236.3	20.9
0°-40°	1971.5	33.4
0°-60°	3024.3	51.2
0°-90°	3372.5	57.1
90°-120°	1033.9	17.5
90°-150°	2149.1	36.4
90°-180°	2538.0	42.9
0°-180°	5910.2	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	9	0	9	0	2
95°	24	33	24	33	24	27
105°	92	455	92	455	92	97
115°	163	1126	163	1126	163	162
125°	235	903	235	903	235	209
135°	291	722	291	722	291	224
145°	345	606	345	606	345	216
155°	404	520	404	520	404	186
165°	449	484	449	484	449	126
175°	472	466	472	466	472	45
180°	472	472	472	472	472	



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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	12.5	11.8	9.8	9.8	9.8	10.5	11.1	6.7	13.7	13.2
90°	0.0	2.9	5.9	8.9	8.9	8.9	5.9	2.9	0.0	2.9	5.9
92.5°	7.1	10.0	13.1	18.5	20.8	18.5	13.1	10.0	7.1	10.0	13.1
95°	23.8	44.1	23.8	26.9	32.7	26.9	23.8	44.1	23.8	44.1	23.8
97.5°	42.2	84.6	174.7	51.5	44.6	51.5	174.7	84.6	42.2	84.6	174.7
100°	56.5	105.8	350.6	103.2	68.3	103.2	350.6	105.8	56.5	105.8	350.6
102.5°	70.7	122.4	474.2	272.3	149.2	272.3	474.2	122.4	70.7	122.4	474.2
105°	92.1	141.5	537.8	687.0	454.6	687.0	537.8	141.5	92.1	141.5	537.8
107.5°	113.5	150.7	513.4	999.9	936.5	999.9	513.4	150.7	113.5	150.7	513.4
110°	127.8	162.6	499.2	1050.6	1129.1	1050.6	499.2	162.6	127.8	162.6	499.2



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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°	142.0	176.9	484.9	1020.9	1152.8	1020.9	484.9	176.9	142.0	176.9	484.9
115°	163.4	198.3	463.5	963.4	1126.1	963.4	463.5	198.3	163.4	198.3	463.5
117.5°	185.4	219.7	458.2	901.1	1068.4	901.1	458.2	219.7	185.4	219.7	458.2
120°	202.0	234.0	448.7	853.7	1028.0	853.7	448.7	234.0	202.0	234.0	448.7
122.5°	213.9	248.2	436.8	813.0	973.4	813.0	436.8	248.2	213.9	248.2	436.8
125°	234.7	266.7	436.8	763.8	903.2	763.8	436.8	266.7	234.7	266.7	436.8
127.5°	252.0	284.5	437.4	706.7	844.4	706.7	437.4	284.5	252.0	284.5	437.4
130°	261.5	296.3	439.7	668.5	799.3	668.5	439.7	296.3	261.5	296.3	439.7
132.5°	273.4	308.2	439.7	651.4	758.8	651.4	439.7	308.2	273.4	308.2	439.7
135°	291.2	323.1	439.7	629.0	722.0	629.0	439.7	323.1	291.2	323.1	439.7
137.5°	306.0	340.3	439.7	604.4	684.0	604.4	439.7	340.3	306.0	340.3	439.7
140°	317.9	349.9	439.7	589.9	662.6	589.9	439.7	349.9	317.9	349.9	439.7
142.5°	329.8	359.4	442.1	573.2	641.2	573.2	442.1	359.4	329.8	359.4	442.1
145°	344.7	373.7	442.7	548.0	606.1	548.0	442.7	373.7	344.7	373.7	442.7
147.5°	362.5	388.1	446.3	529.9	574.6	529.9	446.3	388.1	362.5	388.1	446.3
150°	374.4	397.6	448.7	517.8	555.6	517.8	448.7	397.6	374.4	397.6	448.7
152.5°	386.3	407.2	448.7	508.2	539.0	508.2	448.7	407.2	386.3	407.2	448.7
155°	404.1	418.6	451.6	496.7	520.0	496.7	451.6	418.6	404.1	418.6	451.6
157.5°	418.3	432.3	455.2	489.4	506.3	489.4	455.2	432.3	418.3	432.3	455.2
160°	427.9	439.5	457.6	484.6	499.2	484.6	457.6	439.5	427.9	439.5	457.6
162.5°	435.0	446.6	459.9	482.2	492.0	482.2	459.9	446.6	435.0	446.6	459.9
165°	448.7	454.5	463.5	475.6	484.3	475.6	463.5	454.5	448.7	454.5	463.5
167.5°	456.4	461.6	466.5	472.5	477.8	472.5	466.5	461.6	456.4	461.6	466.5
170°	463.5	466.4	466.5	472.5	475.4	472.5	466.5	466.4	463.5	466.4	466.5
172.5°	465.9	471.1	468.9	470.1	473.0	470.1	468.9	471.1	465.9	471.1	468.9
175°	472.4	475.3	472.4	469.4	466.5	469.4	472.4	475.3	472.4	475.3	472.4
177.5°	472.4	474.7	472.4	472.4	470.0	472.4	472.4	474.7	472.4	474.7	472.4
180°	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4



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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°	12.4	11.1	13.7	15.8	15.1	8.0
90°	8.9	8.9	8.9	5.9	2.9	0.0
92.5°	18.5	20.8	18.5	13.1	10.0	7.1
95°	26.9	32.7	26.9	23.8	44.1	23.8
97.5°	51.5	44.6	51.5	174.7	84.6	42.2
100°	103.2	68.3	103.2	350.6	105.8	56.5
102.5°	272.3	149.2	272.3	474.2	122.4	70.7
105°	687.0	454.6	687.0	537.8	141.5	92.1
107.5°	999.9	936.5	999.9	513.4	150.7	113.5
110°	1050.6	1129.1	1050.6	499.2	162.6	127.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1020.9	1152.8	1020.9	484.9	176.9	142.0
115°	963.4	1126.1	963.4	463.5	198.3	163.4
117.5°	901.1	1068.4	901.1	458.2	219.7	185.4
120°	853.7	1028.0	853.7	448.7	234.0	202.0
122.5°	813.0	973.4	813.0	436.8	248.2	213.9
125°	763.8	903.2	763.8	436.8	266.7	234.7
127.5°	706.7	844.4	706.7	437.4	284.5	252.0
130°	668.5	799.3	668.5	439.7	296.3	261.5
132.5°	651.4	758.8	651.4	439.7	308.2	273.4
135°	629.0	722.0	629.0	439.7	323.1	291.2
137.5°	604.4	684.0	604.4	439.7	340.3	306.0
140°	589.9	662.6	589.9	439.7	349.9	317.9
142.5°	573.2	641.2	573.2	442.1	359.4	329.8
145°	548.0	606.1	548.0	442.7	373.7	344.7
147.5°	529.9	574.6	529.9	446.3	388.1	362.5
150°	517.8	555.6	517.8	448.7	397.6	374.4
152.5°	508.2	539.0	508.2	448.7	407.2	386.3
155°	496.7	520.0	496.7	451.6	418.6	404.1
157.5°	489.4	506.3	489.4	455.2	432.3	418.3
160°	484.6	499.2	484.6	457.6	439.5	427.9
162.5°	482.2	492.0	482.2	459.9	446.6	435.0
165°	475.6	484.3	475.6	463.5	454.5	448.7
167.5°	472.5	477.8	472.5	466.5	461.6	456.4
170°	472.5	475.4	472.5	466.5	466.4	463.5
172.5°	470.1	473.0	470.1	468.9	471.1	465.9
175°	469.4	466.5	469.4	472.4	475.3	472.4
177.5°	472.4	470.0	472.4	472.4	474.7	472.4
180°	472.4	472.4	472.4	472.4	472.4	472.4

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