

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: P621599

Luminaire Tested: VLT-FA-025U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621599
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-125D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

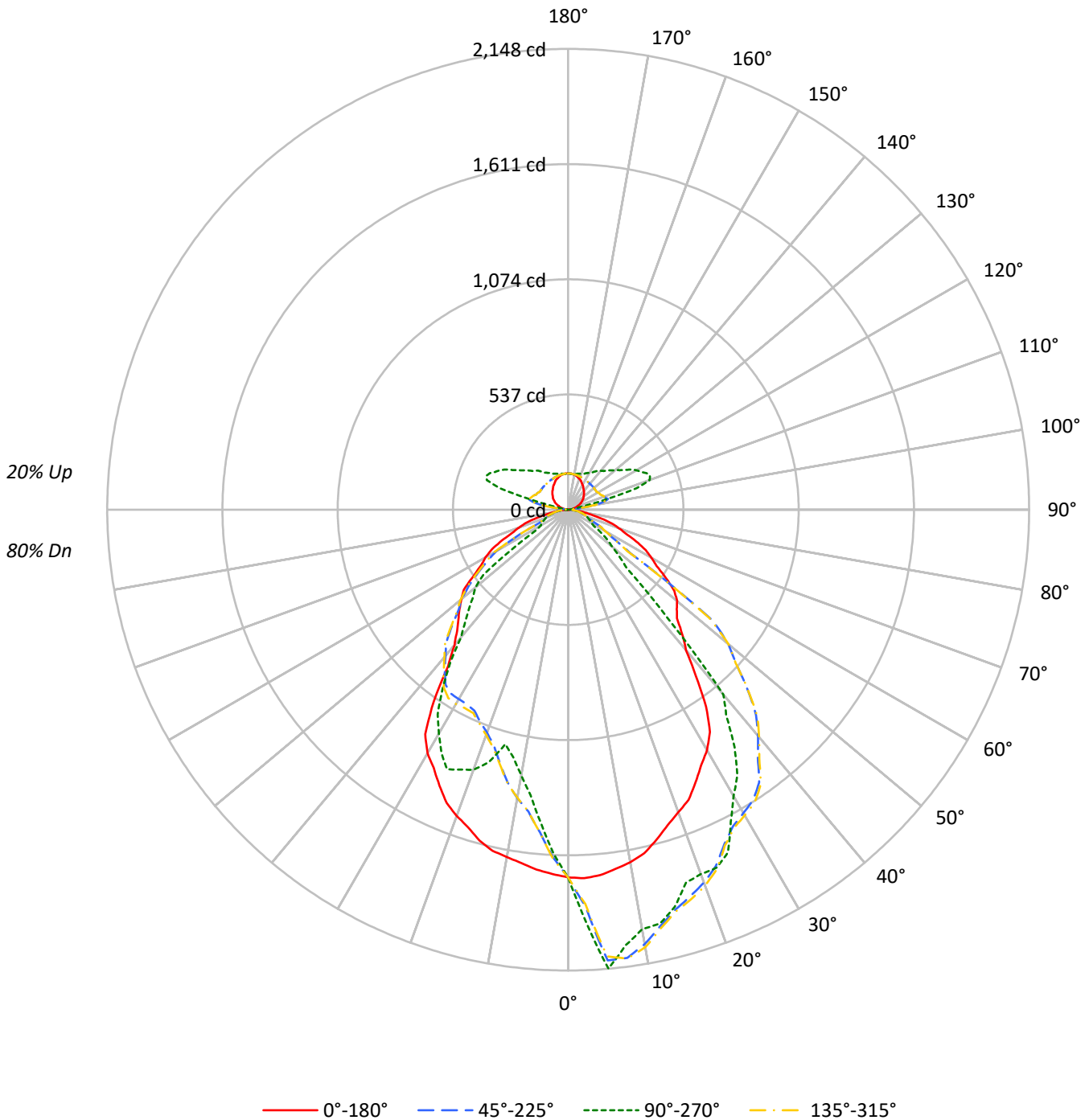
Lumens per Lamp: N/A
Luminaire Lumens: 4441.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 47
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	106	102	98	95	101	98	94	92	90	87	85	82	81	79	76	74	73	70				
2	97	90	85	80	93	87	82	77	80	76	73	74	71	68	68	66	64	61				
3	90	81	74	68	86	78	71	66	72	67	63	67	63	59	62	58	56	53				
4	83	72	65	59	79	70	63	57	65	59	55	60	56	52	56	52	49	46				
5	77	65	57	52	73	63	56	50	59	53	48	55	50	46	51	47	43	41				
6	71	59	51	46	68	57	50	45	53	47	43	50	45	41	47	42	39	37				
7	66	54	46	41	63	52	45	40	49	43	38	46	41	37	43	38	35	33				
8	62	49	42	36	59	48	41	36	45	39	34	42	37	33	40	35	32	30				
9	58	45	38	33	55	44	37	32	42	35	31	39	34	30	37	32	29	27				
10	54	42	35	30	52	41	34	29	38	33	28	36	31	27	34	30	26	25				

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	3.7
10°-20°	452.8	10.2
20°-30°	677.5	15.3
30°-40°	770.5	17.3
40°-50°	659.0	14.8
50°-60°	444.4	10.0
60°-70°	229.4	5.2
70°-80°	103.6	2.3
80°-90°	31.2	0.7
90°-100°	20.8	0.5
100°-110°	148.1	3.3
110°-120°	201.1	4.5
120°-130°	163.6	3.7
130°-140°	131.6	3.0
140°-150°	103.8	2.3
150°-160°	75.9	1.7
160°-170°	47.1	1.1
170°-180°	16.1	0.4
0°-30°	1295.6	29.2
0°-40°	2066.1	46.5
0°-60°	3169.5	71.4
0°-90°	3533.6	79.6
90°-120°	369.9	8.3
90°-150°	769.0	17.3
90°-180°	908.0	20.4
0°-180°	4441.6	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	3	0	3	0	2
95°	8	12	8	12	8	10
105°	33	163	33	163	33	35
115°	58	403	58	403	58	58
125°	84	323	84	323	84	75
135°	104	258	104	258	104	80
145°	123	217	123	217	123	77
155°	145	186	145	186	145	66
165°	160	173	160	173	160	45
175°	169	167	169	167	169	16
180°	169	169	169	169	169	



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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	12.7	11.6	9.0	9.0	9.0	10.2	11.3	7.0	14.0	13.0
90°	0.0	1.0	2.1	3.2	3.2	3.2	2.1	1.0	0.0	1.0	2.1
92.5°	2.6	3.6	4.7	6.6	7.4	6.6	4.7	3.6	2.6	3.6	4.7
95°	8.5	15.8	8.5	9.6	11.7	9.6	8.5	15.8	8.5	15.8	8.5
97.5°	15.1	30.3	62.5	18.4	15.9	18.4	62.5	30.3	15.1	30.3	62.5
100°	20.2	37.9	125.5	36.9	24.5	36.9	125.5	37.9	20.2	37.9	125.5
102.5°	25.3	43.8	169.7	97.4	53.4	97.4	169.7	43.8	25.3	43.8	169.7
105°	33.0	50.6	192.4	245.8	162.7	245.8	192.4	50.6	33.0	50.6	192.4
107.5°	40.6	53.9	183.7	357.8	335.1	357.8	183.7	53.9	40.6	53.9	183.7
110°	45.7	58.2	178.6	375.9	404.0	375.9	178.6	58.2	45.7	58.2	178.6



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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°	50.8	63.3	173.5	365.3	412.5	365.3	173.5	63.3	50.8	63.3	173.5
115°	58.5	70.9	165.9	344.7	402.9	344.7	165.9	70.9	58.5	70.9	165.9
117.5°	66.3	78.6	163.9	322.4	382.3	322.4	163.9	78.6	66.3	78.6	163.9
120°	72.3	83.7	160.5	305.5	367.9	305.5	160.5	83.7	72.3	83.7	160.5
122.5°	76.5	88.8	156.3	290.9	348.3	290.9	156.3	88.8	76.5	88.8	156.3
125°	84.0	95.4	156.3	273.3	323.2	273.3	156.3	95.4	84.0	95.4	156.3
127.5°	90.2	101.8	156.5	252.9	302.2	252.9	156.5	101.8	90.2	101.8	156.5
130°	93.6	106.0	157.4	239.2	286.0	239.2	157.4	106.0	93.6	106.0	157.4
132.5°	97.8	110.3	157.4	233.1	271.5	233.1	157.4	110.3	97.8	110.3	157.4
135°	104.2	115.6	157.4	225.1	258.4	225.1	157.4	115.6	104.2	115.6	157.4
137.5°	109.5	121.8	157.4	216.3	244.7	216.3	157.4	121.8	109.5	121.8	157.4
140°	113.8	125.2	157.4	211.1	237.1	211.1	157.4	125.2	113.8	125.2	157.4
142.5°	118.0	128.6	158.2	205.1	229.4	205.1	158.2	128.6	118.0	128.6	158.2
145°	123.3	133.7	158.4	196.1	216.9	196.1	158.4	133.7	123.3	133.7	158.4
147.5°	129.7	138.9	159.7	189.6	205.6	189.6	159.7	138.9	129.7	138.9	159.7
150°	134.0	142.3	160.5	185.3	198.8	185.3	160.5	142.3	134.0	142.3	160.5
152.5°	138.2	145.7	160.5	181.8	192.9	181.8	160.5	145.7	138.2	145.7	160.5
155°	144.6	149.8	161.6	177.7	186.1	177.7	161.6	149.8	144.6	149.8	161.6
157.5°	149.7	154.7	162.9	175.1	181.2	175.1	162.9	154.7	149.7	154.7	162.9
160°	153.1	157.3	163.7	173.4	178.6	173.4	163.7	157.3	153.1	157.3	163.7
162.5°	155.7	159.8	164.6	172.5	176.1	172.5	164.6	159.8	155.7	159.8	164.6
165°	160.5	162.6	165.9	170.2	173.3	170.2	165.9	162.6	160.5	162.6	165.9
167.5°	163.3	165.2	166.9	169.1	171.0	169.1	166.9	165.2	163.3	165.2	166.9
170°	165.9	166.9	166.9	169.1	170.1	169.1	166.9	166.9	165.9	166.9	166.9
172.5°	166.7	168.6	167.8	168.2	169.3	168.2	167.8	168.6	166.7	168.6	167.8
175°	169.0	170.1	169.0	168.0	166.9	168.0	169.0	170.1	169.0	170.1	169.0
177.5°	169.0	169.9	169.0	169.0	168.2	169.0	169.0	169.9	169.0	169.9	169.0
180°	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0

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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°	11.8	10.4	13.1	15.8	15.4	8.4
90°	3.2	3.2	3.2	2.1	1.0	0.0
92.5°	6.6	7.4	6.6	4.7	3.6	2.6
95°	9.6	11.7	9.6	8.5	15.8	8.5
97.5°	18.4	15.9	18.4	62.5	30.3	15.1
100°	36.9	24.5	36.9	125.5	37.9	20.2
102.5°	97.4	53.4	97.4	169.7	43.8	25.3
105°	245.8	162.7	245.8	192.4	50.6	33.0
107.5°	357.8	335.1	357.8	183.7	53.9	40.6
110°	375.9	404.0	375.9	178.6	58.2	45.7



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	365.3	412.5	365.3	173.5	63.3	50.8
115°	344.7	402.9	344.7	165.9	70.9	58.5
117.5°	322.4	382.3	322.4	163.9	78.6	66.3
120°	305.5	367.9	305.5	160.5	83.7	72.3
122.5°	290.9	348.3	290.9	156.3	88.8	76.5
125°	273.3	323.2	273.3	156.3	95.4	84.0
127.5°	252.9	302.2	252.9	156.5	101.8	90.2
130°	239.2	286.0	239.2	157.4	106.0	93.6
132.5°	233.1	271.5	233.1	157.4	110.3	97.8
135°	225.1	258.4	225.1	157.4	115.6	104.2
137.5°	216.3	244.7	216.3	157.4	121.8	109.5
140°	211.1	237.1	211.1	157.4	125.2	113.8
142.5°	205.1	229.4	205.1	158.2	128.6	118.0
145°	196.1	216.9	196.1	158.4	133.7	123.3
147.5°	189.6	205.6	189.6	159.7	138.9	129.7
150°	185.3	198.8	185.3	160.5	142.3	134.0
152.5°	181.8	192.9	181.8	160.5	145.7	138.2
155°	177.7	186.1	177.7	161.6	149.8	144.6
157.5°	175.1	181.2	175.1	162.9	154.7	149.7
160°	173.4	178.6	173.4	163.7	157.3	153.1
162.5°	172.5	176.1	172.5	164.6	159.8	155.7
165°	170.2	173.3	170.2	165.9	162.6	160.5
167.5°	169.1	171.0	169.1	166.9	165.2	163.3
170°	169.1	170.1	169.1	166.9	166.9	165.9
172.5°	168.2	169.3	168.2	167.8	168.6	166.7
175°	168.0	166.9	168.0	169.0	170.1	169.0
177.5°	169.0	168.2	169.0	169.0	169.9	169.0
180°	169.0	169.0	169.0	169.0	169.0	169.0

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