

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: P621600

Luminaire Tested: VLT-FA-025U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621600  
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-940-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

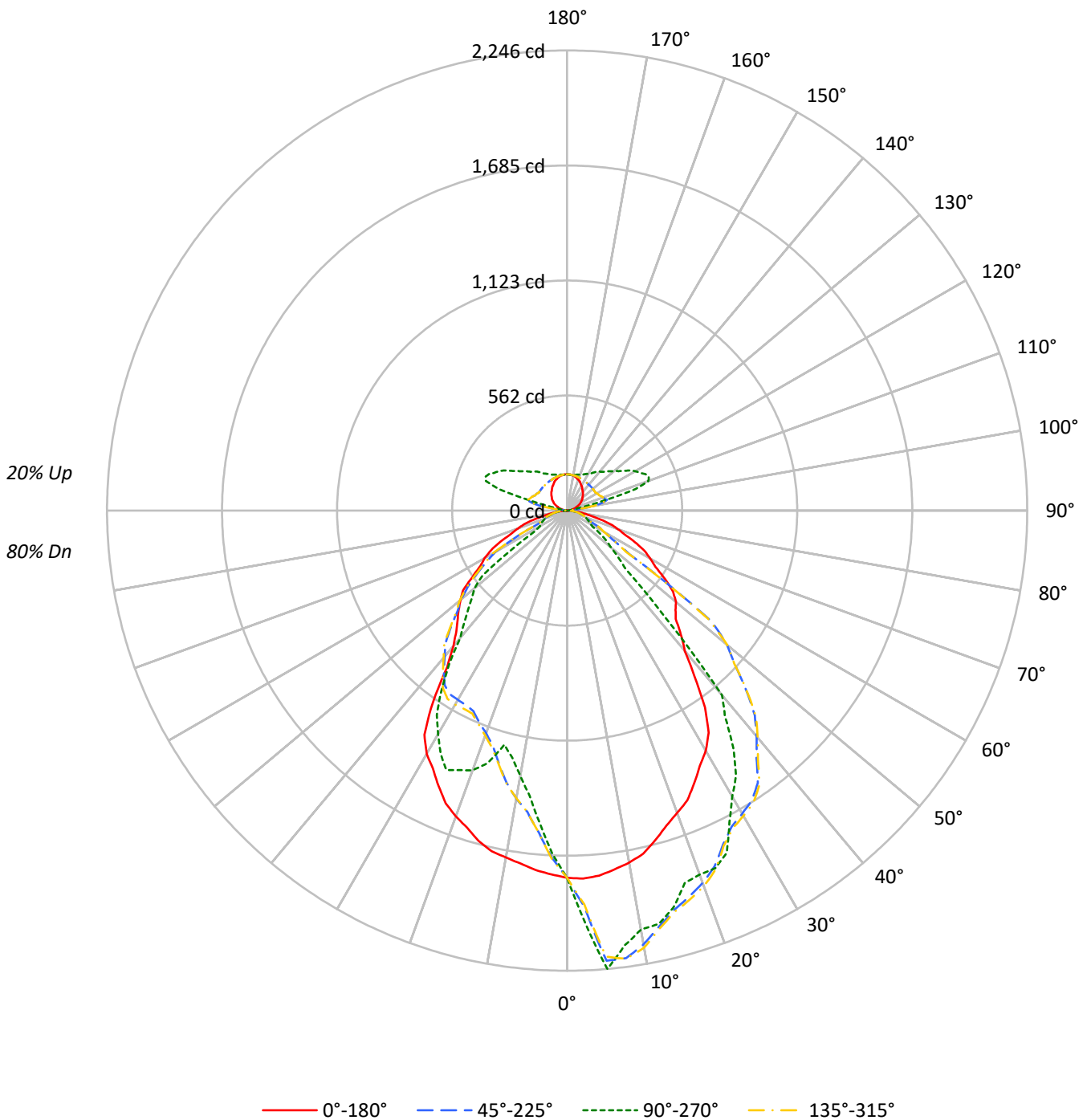
Lumens per Lamp: N/A  
Luminaire Lumens: 4645.4 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 47  
Input Voltage (V): 120  
Input Current (A<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	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°	12859	12859	12859	12859
5°	12882	16178	12685	11030
10°	12712	15130	12526	9578
15°	12365	14898	12406	8789
20°	11986	14437	12125	10302
25°	11619	14593	11749	11056
30°	11209	13353	11359	10438
35°	10269	12376	10013	9359
40°	8368	11014	8078	7617
45°	7604	4089	7677	6937
50°	7733	3114	7591	6594
55°	7299	2417	7047	3946
60°	6724	1857	6672	2197
65°	6191	1919	6067	2321
70°	5508	2027	5354	2409
75°	4700	2124	4497	2476
80°	3542	2186	3314	2562
85°	2404	1951	2100	2404

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14080 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.9	3.7
10°-20°	473.5	10.2
20°-30°	708.6	15.3
30°-40°	805.8	17.3
40°-50°	689.2	14.8
50°-60°	464.8	10.0
60°-70°	239.9	5.2
70°-80°	108.3	2.3
80°-90°	32.6	0.7
90°-100°	21.7	0.5
100°-110°	154.9	3.3
110°-120°	210.3	4.5
120°-130°	171.2	3.7
130°-140°	137.7	3.0
140°-150°	108.5	2.3
150°-160°	79.4	1.7
160°-170°	49.3	1.1
170°-180°	16.8	0.4
0°-30°	1355.0	29.2
0°-40°	2160.8	46.5
0°-60°	3314.8	71.4
0°-90°	3695.6	79.6
90°-120°	386.9	8.3
90°-150°	804.3	17.3
90°-180°	950.0	20.5
0°-180°	4645.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1792	1792	1792	1792	1792	
5°	1788	2246	1761	1531	1788	169
15°	1664	2005	1670	1183	1664	468
25°	1468	1843	1484	1396	1468	675
35°	1172	1413	1143	1068	1172	717
45°	749	403	756	684	749	594
55°	583	193	563	315	583	520
65°	365	113	357	137	365	360
75°	170	77	162	89	170	181
85°	29	24	26	29	29	37
90°	0	3	0	3	0	2
95°	9	12	9	12	9	10
105°	34	170	34	170	34	36
115°	61	421	61	421	61	61
125°	88	338	88	338	88	78
135°	109	270	109	270	109	84
145°	129	227	129	227	129	81
155°	151	195	151	195	151	69
165°	168	181	168	181	168	47
175°	177	175	177	175	177	17
180°	177	177	177	177	177	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1797.8	1859.2	1936.4	1989.4	2012.2	1989.4	1923.3	1858.7	1777.4	1753.2	1695.8
5°	1788.4	1977.3	2205.8	2233.5	2245.9	2233.5	2185.8	1966.0	1761.0	1673.7	1578.7
7.5°	1766.5	2097.0	2203.3	2141.7	2142.0	2153.4	2206.6	2086.7	1738.1	1600.8	1484.3
10°	1744.6	2163.5	2149.3	2060.4	2076.4	2069.3	2165.7	2150.5	1719.1	1560.4	1427.4
12.5°	1715.4	2184.2	2077.9	2048.7	2066.2	2056.2	2088.4	2172.9	1703.0	1531.6	1361.8
15°	1664.4	2154.6	2018.1	2005.3	2005.3	2014.2	2027.2	2163.6	1669.9	1479.1	1281.6
17.5°	1611.9	2095.3	1976.5	1913.3	1906.5	1918.3	1991.4	2110.5	1622.8	1421.1	1203.9
20°	1569.6	2054.4	1934.2	1860.2	1890.5	1863.7	1950.6	2065.5	1587.8	1384.6	1155.8
22.5°	1531.7	2003.7	1880.2	1848.7	1889.0	1849.4	1895.2	2014.7	1547.0	1343.8	1119.3
25°	1467.5	1918.5	1799.3	1828.8	1843.1	1828.8	1806.6	1926.0	1483.9	1291.4	1081.0
27.5°	1403.7	1828.7	1738.8	1758.6	1715.1	1748.6	1748.6	1829.0	1419.0	1230.4	1069.4
30°	1352.7	1766.2	1708.2	1679.3	1611.5	1665.0	1720.9	1766.6	1370.9	1190.9	1066.5
32.5°	1285.6	1709.1	1677.5	1577.7	1534.2	1570.6	1691.7	1707.9	1296.5	1155.0	1063.5
35°	1172.2	1628.5	1622.5	1457.4	1412.8	1446.7	1635.2	1624.3	1143.0	1098.5	1040.9
37.5°	1020.2	1556.7	1517.1	1335.7	1264.8	1326.8	1529.1	1549.0	961.5	1046.7	988.1
40°	893.3	1508.2	1438.3	1245.4	1175.8	1236.4	1447.5	1504.0	862.3	1010.2	929.7
42.5°	821.8	1465.3	1355.2	1149.7	719.4	1135.0	1364.3	1459.8	801.0	963.2	878.7
45°	749.3	1387.4	1234.2	636.4	402.9	606.1	1236.0	1367.9	756.5	892.0	800.3
47.5°	717.5	1291.5	1107.7	383.3	340.2	372.3	1106.6	1270.5	717.9	820.6	725.6
50°	692.7	1231.1	1017.2	337.7	278.9	325.3	1019.1	1211.2	680.0	772.7	674.5
52.5°	651.9	1158.8	887.4	279.9	241.0	273.1	865.9	1136.1	640.6	720.5	610.3
55°	583.4	1020.1	370.1	220.0	193.2	211.1	351.8	985.8	563.3	638.2	536.0
57.5°	510.8	868.4	259.6	171.2	149.9	169.5	257.8	833.6	501.3	540.5	467.4
60°	468.5	766.2	211.5	143.7	129.4	141.9	209.6	735.8	464.9	475.6	404.7
62.5°	426.2	662.6	175.0	126.4	122.1	124.6	174.6	629.3	419.7	420.4	285.1
65°	364.6	501.9	129.4	114.8	113.0	113.0	125.8	483.9	357.3	346.6	164.1
67.5°	301.9	360.4	103.9	105.7	103.9	103.9	102.1	350.2	294.6	276.4	124.0
70°	262.5	276.8	96.6	98.4	96.6	96.6	94.8	269.5	255.2	214.2	116.7
72.5°	224.6	188.9	89.3	89.7	89.3	89.3	87.5	177.4	217.3	150.6	106.5
75°	169.5	94.7	76.6	76.6	76.6	76.6	74.7	90.9	162.2	98.1	91.2
77.5°	117.8	62.5	63.4	63.1	63.1	61.6	61.6	62.0	110.8	67.7	73.6
80°	85.7	51.8	54.7	52.9	52.9	52.9	52.9	49.9	80.2	57.0	62.0
82.5°	60.9	41.3	44.5	42.7	42.7	42.7	42.7	40.8	55.4	46.5	50.3
85°	29.2	27.4	29.2	25.5	23.7	25.5	27.3	27.3	25.5	30.9	32.8
87.5°	8.8	13.2	12.1	9.4	9.4	9.4	10.7	11.8	7.3	14.6	13.6
90°	0.0	1.1	2.2	3.3	3.3	3.3	2.2	1.1	0.0	1.1	2.2
92.5°	2.7	3.8	4.9	6.9	7.8	6.9	4.9	3.8	2.7	3.8	4.9
95°	8.9	16.5	8.9	10.1	12.2	10.1	8.9	16.5	8.9	16.5	8.9
97.5°	15.8	31.7	65.4	19.3	16.7	19.3	65.4	31.7	15.8	31.7	65.4
100°	21.1	39.6	131.2	38.6	25.6	38.6	131.2	39.6	21.1	39.6	131.2
102.5°	26.5	45.8	177.5	101.9	55.8	101.9	177.5	45.8	26.5	45.8	177.5
105°	34.5	53.0	201.3	257.1	170.1	257.1	201.3	53.0	34.5	53.0	201.3
107.5°	42.5	56.4	192.1	374.2	350.5	374.2	192.1	56.4	42.5	56.4	192.1
110°	47.8	60.9	186.8	393.2	422.5	393.2	186.8	60.9	47.8	60.9	186.8



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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°	53.2	66.2	181.5	382.1	431.4	382.1	181.5	66.2	53.2	66.2	181.5
115°	61.2	74.2	173.5	360.5	421.4	360.5	173.5	74.2	61.2	74.2	173.5
117.5°	69.4	82.2	171.5	337.2	399.9	337.2	171.5	82.2	69.4	82.2	171.5
120°	75.6	87.6	167.9	319.5	384.7	319.5	167.9	87.6	75.6	87.6	167.9
122.5°	80.1	92.9	163.5	304.3	364.3	304.3	163.5	92.9	80.1	92.9	163.5
125°	87.8	99.8	163.5	285.8	338.0	285.8	163.5	99.8	87.8	99.8	163.5
127.5°	94.3	106.5	163.7	264.5	316.0	264.5	163.7	106.5	94.3	106.5	163.7
130°	97.8	110.9	164.6	250.2	299.1	250.2	164.6	110.9	97.8	110.9	164.6
132.5°	102.3	115.3	164.6	243.8	284.0	243.8	164.6	115.3	102.3	115.3	164.6
135°	109.0	120.9	164.6	235.4	270.2	235.4	164.6	120.9	109.0	120.9	164.6
137.5°	114.5	127.4	164.6	226.2	256.0	226.2	164.6	127.4	114.5	127.4	164.6
140°	119.0	130.9	164.6	220.8	248.0	220.8	164.6	130.9	119.0	130.9	164.6
142.5°	123.4	134.5	165.5	214.5	240.0	214.5	165.5	134.5	123.4	134.5	165.5
145°	129.0	139.9	165.7	205.1	226.8	205.1	165.7	139.9	129.0	139.9	165.7
147.5°	135.7	145.2	167.0	198.3	215.0	198.3	167.0	145.2	135.7	145.2	167.0
150°	140.1	148.8	167.9	193.8	207.9	193.8	167.9	148.8	140.1	148.8	167.9
152.5°	144.6	152.4	167.9	190.2	201.7	190.2	167.9	152.4	144.6	152.4	167.9
155°	151.2	156.7	169.0	185.9	194.6	185.9	169.0	156.7	151.2	156.7	169.0
157.5°	156.6	161.8	170.3	183.2	189.5	183.2	170.3	161.8	156.6	161.8	170.3
160°	160.1	164.5	171.2	181.4	186.8	181.4	171.2	164.5	160.1	164.5	171.2
162.5°	162.8	167.1	172.1	180.4	184.1	180.4	172.1	167.1	162.8	167.1	172.1
165°	167.9	170.1	173.5	178.0	181.2	178.0	173.5	170.1	167.9	170.1	173.5
167.5°	170.8	172.7	174.6	176.8	178.8	176.8	174.6	172.7	170.8	172.7	174.6
170°	173.5	174.5	174.6	176.8	177.9	176.8	174.6	174.5	173.5	174.5	174.6
172.5°	174.4	176.3	175.5	175.9	177.0	175.9	175.5	176.3	174.4	176.3	175.5
175°	176.8	177.9	176.8	175.7	174.6	175.7	176.8	177.9	176.8	177.9	176.8
177.5°	176.8	177.7	176.8	176.8	175.9	176.8	176.8	177.7	176.8	177.7	176.8
180°	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1675.3	1673.9	1676.7	1701.6	1752.2	1797.8
5°	1526.0	1531.3	1536.7	1578.7	1667.2	1788.4
7.5°	1411.2	1403.3	1415.5	1483.9	1592.5	1766.5
10°	1332.2	1314.4	1332.2	1425.6	1552.1	1744.6
12.5°	1257.7	1235.6	1263.4	1365.8	1518.7	1715.4
15°	1161.7	1183.1	1170.7	1285.2	1468.3	1664.4
17.5°	1184.5	1292.1	1207.3	1215.2	1418.3	1611.9
20°	1238.5	1349.0	1274.2	1168.5	1386.0	1569.6
22.5°	1287.5	1370.9	1303.2	1129.2	1353.8	1531.7
25°	1325.1	1396.4	1321.6	1093.8	1307.1	1467.5
27.5°	1327.0	1337.0	1327.7	1090.9	1249.3	1403.7
30°	1302.5	1259.7	1298.9	1093.8	1208.3	1352.7
32.5°	1232.3	1183.9	1217.4	1088.0	1166.9	1285.6
35°	1132.4	1068.3	1114.6	1057.3	1102.7	1172.2
37.5°	1027.1	945.8	1009.9	996.8	1048.0	1020.2
40°	955.7	813.1	941.4	937.0	1018.0	893.3
42.5°	864.3	743.1	851.4	888.9	985.1	821.8
45°	697.9	683.6	690.8	807.6	915.0	749.3
47.5°	638.2	628.6	634.6	733.6	835.9	717.5
50°	603.1	590.7	599.6	685.4	785.4	692.7
52.5°	554.5	520.6	551.0	619.8	733.2	651.9
55°	417.0	315.4	415.2	545.1	654.7	583.4
57.5°	244.7	182.3	239.3	474.3	554.7	510.8
60°	165.6	153.1	167.4	417.5	488.1	468.5
62.5°	151.2	147.3	151.6	290.6	428.7	426.2
65°	138.5	136.7	138.5	167.7	353.9	364.6
67.5°	125.4	123.6	126.8	128.7	279.4	301.9
70°	116.6	114.8	116.6	118.5	214.4	262.5
72.5°	106.4	104.6	106.4	108.3	150.8	224.6
75°	91.1	89.3	91.1	93.0	100.0	169.5
77.5°	73.6	73.6	75.4	75.5	70.0	117.8
80°	62.0	62.0	63.8	63.8	60.7	85.7
82.5°	50.3	48.9	52.1	53.6	50.2	60.9
85°	31.0	29.2	32.7	34.6	32.7	29.2
87.5°	12.3	10.9	13.7	16.5	16.1	8.8
90°	3.3	3.3	3.3	2.2	1.1	0.0
92.5°	6.9	7.8	6.9	4.9	3.8	2.7
95°	10.1	12.2	10.1	8.9	16.5	8.9
97.5°	19.3	16.7	19.3	65.4	31.7	15.8
100°	38.6	25.6	38.6	131.2	39.6	21.1
102.5°	101.9	55.8	101.9	177.5	45.8	26.5
105°	257.1	170.1	257.1	201.3	53.0	34.5
107.5°	374.2	350.5	374.2	192.1	56.4	42.5
110°	393.2	422.5	393.2	186.8	60.9	47.8





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	382.1	431.4	382.1	181.5	66.2	53.2
115°	360.5	421.4	360.5	173.5	74.2	61.2
117.5°	337.2	399.9	337.2	171.5	82.2	69.4
120°	319.5	384.7	319.5	167.9	87.6	75.6
122.5°	304.3	364.3	304.3	163.5	92.9	80.1
125°	285.8	338.0	285.8	163.5	99.8	87.8
127.5°	264.5	316.0	264.5	163.7	106.5	94.3
130°	250.2	299.1	250.2	164.6	110.9	97.8
132.5°	243.8	284.0	243.8	164.6	115.3	102.3
135°	235.4	270.2	235.4	164.6	120.9	109.0
137.5°	226.2	256.0	226.2	164.6	127.4	114.5
140°	220.8	248.0	220.8	164.6	130.9	119.0
142.5°	214.5	240.0	214.5	165.5	134.5	123.4
145°	205.1	226.8	205.1	165.7	139.9	129.0
147.5°	198.3	215.0	198.3	167.0	145.2	135.7
150°	193.8	207.9	193.8	167.9	148.8	140.1
152.5°	190.2	201.7	190.2	167.9	152.4	144.6
155°	185.9	194.6	185.9	169.0	156.7	151.2
157.5°	183.2	189.5	183.2	170.3	161.8	156.6
160°	181.4	186.8	181.4	171.2	164.5	160.1
162.5°	180.4	184.1	180.4	172.1	167.1	162.8
165°	178.0	181.2	178.0	173.5	170.1	167.9
167.5°	176.8	178.8	176.8	174.6	172.7	170.8
170°	176.8	177.9	176.8	174.6	174.5	173.5
172.5°	175.9	177.0	175.9	175.5	176.3	174.4
175°	175.7	174.6	175.7	176.8	177.9	176.8
177.5°	176.8	175.9	176.8	176.8	177.7	176.8
180°	176.8	176.8	176.8	176.8	176.8	176.8

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