

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: P621632

Luminaire Tested: VLT-FA-075U-075D-835-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621632  
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-075D-835-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

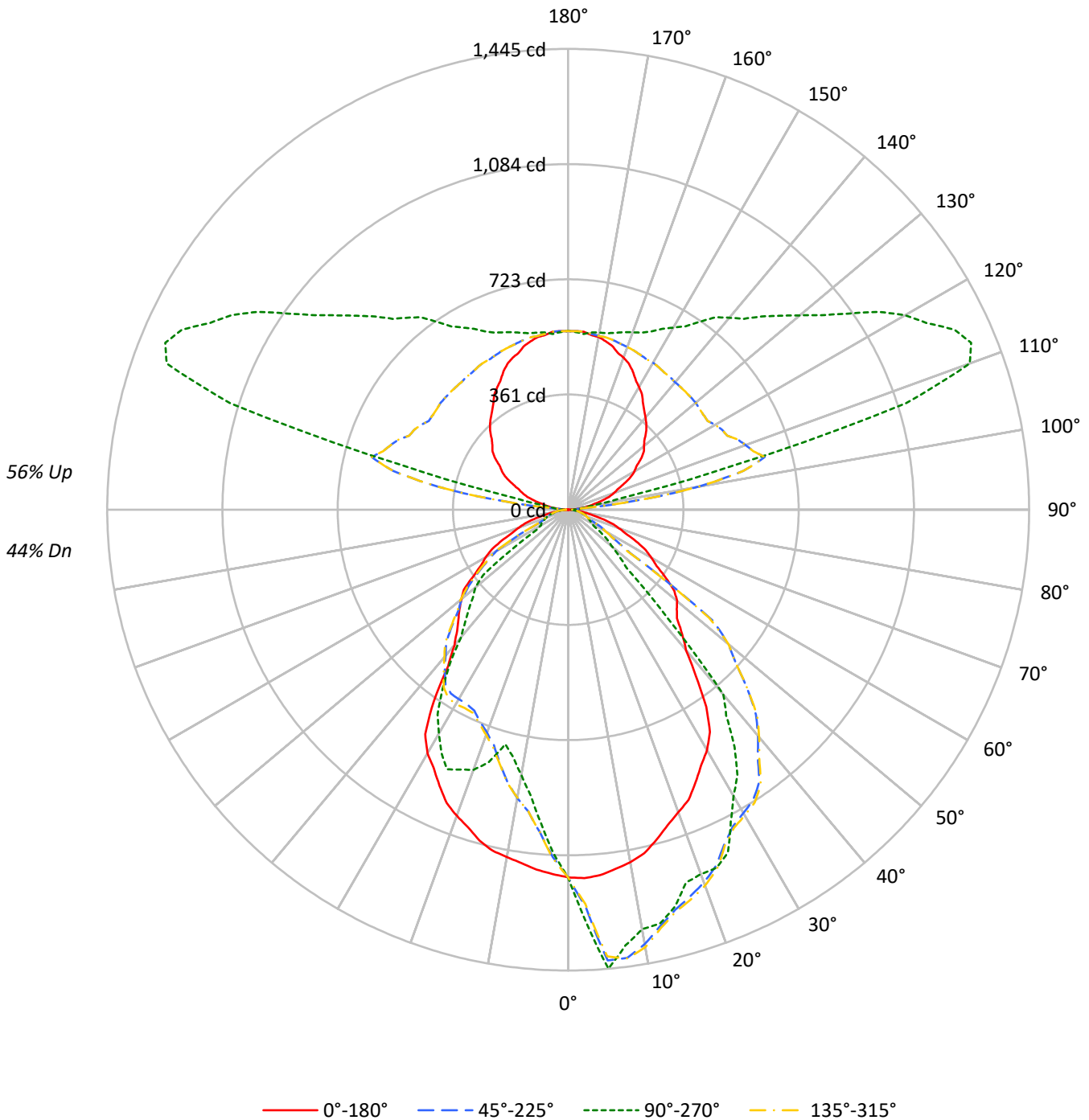
Lumens per Lamp: N/A  
Luminaire Lumens: 5387.8 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 42.4  
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



TEST NUMBER: P621632  
CATALOG NUMBER: VLT-FA-075U-075D-835-UNV-STD-W-4

### 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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	93	90	86	89	86	83	80	71	69	67	58	57	55	46	45	44	39				
2	89	82	77	72	81	76	71	67	63	60	57	52	50	47	41	40	38	34				
3	82	73	66	61	75	67	61	57	56	52	49	47	43	41	37	35	34	29				
4	75	65	58	52	69	60	54	49	51	46	42	42	38	36	34	31	29	26				
5	69	58	50	45	63	54	47	42	46	40	37	38	34	31	31	28	26	23				
6	64	52	45	39	58	49	42	37	41	36	32	34	31	28	28	25	23	20				
7	59	47	40	34	54	44	37	32	38	32	29	31	28	25	26	23	21	18				
8	55	43	36	31	50	40	33	29	34	29	25	29	25	22	24	21	19	16				
9	51	39	32	27	47	37	30	26	32	26	23	27	23	20	22	19	17	15				
10	48	36	29	25	44	34	28	23	29	24	21	25	21	18	20	18	16	14				

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

	0°	90°	180°	270°
0°	8272	8272	8272	8272
5°	8286	10406	8159	7095
10°	8177	9732	8058	6160
15°	7954	9583	7980	5654
20°	7710	9286	7799	6626
25°	7474	9387	7558	7112
30°	7210	8589	7307	6714
35°	6605	7961	6441	6019
40°	5383	7085	5195	4899
45°	4890	2629	4938	4462
50°	4975	2003	4883	4241
55°	4694	1555	4533	2538
60°	4326	1196	4291	1414
65°	3982	1234	3902	1493
70°	3544	1303	3445	1550
75°	3025	1364	2895	1594
80°	2277	1405	2132	1649
85°	1548	1251	1350	1548

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9056 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.2	2.1
10°-20°	304.6	5.7
20°-30°	455.8	8.5
30°-40°	518.3	9.6
40°-50°	443.3	8.2
50°-60°	298.9	5.5
60°-70°	154.3	2.9
70°-80°	69.7	1.3
80°-90°	22.0	0.4
90°-100°	68.9	1.3
100°-110°	490.9	9.1
110°-120°	666.4	12.4
120°-130°	542.4	10.1
130°-140°	436.2	8.1
140°-150°	343.9	6.4
150°-160°	251.5	4.7
160°-170°	156.2	2.9
170°-180°	53.3	1.0
0°-30°	871.6	16.2
0°-40°	1389.9	25.8
0°-60°	2132.2	39.6
0°-90°	2378.1	44.1
90°-120°	1226.2	22.8
90°-150°	2548.7	47.3
90°-180°	3010.0	55.9
0°-180°	5387.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1150	1445	1133	985	1150	109
15°	1071	1290	1074	761	1071	301
25°	944	1186	954	898	944	434
35°	754	909	735	687	754	461
45°	482	259	487	440	482	382
55°	375	124	362	203	375	334
65°	234	73	230	88	234	232
75°	109	49	104	58	109	116
85°	19	15	16	19	19	24
90°	0	11	0	11	0	2
95°	28	39	28	39	28	32
105°	109	539	109	539	109	115
115°	194	1336	194	1336	194	192
125°	278	1071	278	1071	278	247
135°	345	856	345	856	345	266
145°	409	719	409	719	409	257
155°	479	617	479	617	479	220
165°	532	574	532	574	532	149
175°	560	553	560	553	560	53
180°	560	560	560	560	560	



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CATALOG NUMBER: VLT-FA-075U-075D-835-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1156.4	1195.9	1245.5	1279.6	1294.3	1279.6	1237.1	1195.6	1143.3	1127.7	1090.8
5°	1150.3	1271.9	1418.8	1436.6	1444.6	1436.6	1405.9	1264.6	1132.7	1076.6	1015.5
7.5°	1136.3	1348.8	1417.2	1377.6	1377.8	1385.1	1419.3	1342.2	1118.0	1029.7	954.7
10°	1122.2	1391.6	1382.5	1325.3	1335.6	1331.0	1393.1	1383.2	1105.8	1003.7	918.1
12.5°	1103.4	1405.0	1336.5	1317.8	1329.0	1322.6	1343.3	1397.7	1095.4	985.1	875.9
15°	1070.6	1385.9	1298.1	1289.9	1289.9	1295.6	1303.9	1391.7	1074.1	951.4	824.3
17.5°	1036.8	1347.8	1271.3	1230.7	1226.3	1233.9	1281.0	1357.5	1043.9	914.1	774.4
20°	1009.6	1321.5	1244.1	1196.5	1216.0	1198.8	1254.7	1328.6	1021.3	890.6	743.4
22.5°	985.2	1288.8	1209.4	1189.1	1215.1	1189.6	1219.0	1295.9	995.1	864.4	720.0
25°	943.9	1234.0	1157.4	1176.3	1185.5	1176.3	1162.0	1238.8	954.5	830.7	695.4
27.5°	902.9	1176.2	1118.4	1131.2	1103.2	1124.7	1124.8	1176.5	912.8	791.4	687.8
30°	870.1	1136.1	1098.7	1080.1	1036.6	1071.0	1106.9	1136.3	881.8	766.0	686.0
32.5°	826.9	1099.3	1079.0	1014.8	986.9	1010.3	1088.2	1098.6	834.0	742.9	684.1
35°	754.0	1047.5	1043.6	937.4	908.8	930.6	1051.8	1044.8	735.2	706.6	669.6
37.5°	656.2	1001.3	975.8	859.2	813.6	853.5	983.6	996.3	618.4	673.2	635.6
40°	574.6	970.1	925.2	801.0	756.3	795.3	931.0	967.4	554.6	649.8	598.0
42.5°	528.6	942.5	871.7	739.5	462.7	730.1	877.6	939.0	515.2	619.6	565.2
45°	481.9	892.4	793.9	409.3	259.1	389.9	795.0	879.9	486.6	573.8	514.8
47.5°	461.5	830.7	712.5	246.6	218.8	239.4	711.8	817.2	461.8	527.8	466.7
50°	445.6	791.8	654.3	217.2	179.4	209.2	655.5	779.1	437.4	497.0	433.9
52.5°	419.3	745.4	570.8	180.0	155.0	175.7	557.0	730.8	412.1	463.4	392.6
55°	375.2	656.1	238.0	141.5	124.3	135.8	226.3	634.1	362.3	410.5	344.7
57.5°	328.6	558.6	167.0	110.1	96.4	109.0	165.8	536.2	322.5	347.7	300.7
60°	301.4	492.8	136.0	92.4	83.3	91.3	134.8	473.3	299.0	305.9	260.3
62.5°	274.2	426.2	112.6	81.3	78.6	80.2	112.3	404.8	269.9	270.4	183.4
65°	234.5	322.8	83.3	73.8	72.7	72.7	80.9	311.2	229.8	223.0	105.5
67.5°	194.2	231.8	66.8	68.0	66.8	66.8	65.7	225.3	189.5	177.8	79.7
70°	168.9	178.0	62.1	63.3	62.1	62.1	61.0	173.3	164.2	137.8	75.0
72.5°	144.5	121.5	57.5	57.7	57.5	57.5	56.3	114.1	139.8	96.9	68.5
75°	109.1	60.9	49.2	49.2	49.2	49.2	48.1	58.5	104.4	63.1	58.6
77.5°	75.8	40.2	40.8	40.6	40.6	39.7	39.6	39.9	71.3	43.5	47.4
80°	55.1	33.3	35.2	34.0	34.0	34.0	34.0	32.1	51.6	36.7	39.9
82.5°	39.2	26.6	28.6	27.4	27.4	27.4	27.4	26.2	35.6	29.9	32.4
85°	18.8	17.6	18.8	16.4	15.2	16.4	17.6	17.6	16.4	19.9	21.1
87.5°	5.6	9.1	8.9	7.7	7.7	7.7	8.0	8.1	4.7	10.0	9.9
90°	0.0	3.4	7.0	10.6	10.6	10.6	7.0	3.4	0.0	3.4	7.0
92.5°	8.5	11.9	15.5	21.9	24.7	21.9	15.5	11.9	8.5	11.9	15.5
95°	28.2	52.3	28.2	31.9	38.8	31.9	28.2	52.3	28.2	52.3	28.2
97.5°	50.0	100.3	207.2	61.1	52.9	61.1	207.2	100.3	50.0	100.3	207.2
100°	67.0	125.5	415.8	122.4	81.0	122.4	415.8	125.5	67.0	125.5	415.8
102.5°	83.9	145.2	562.4	323.0	176.9	323.0	562.4	145.2	83.9	145.2	562.4
105°	109.2	167.8	637.8	814.8	539.1	814.8	637.8	167.8	109.2	167.8	637.8
107.5°	134.6	178.7	608.9	1185.8	1110.7	1185.8	608.9	178.7	134.6	178.7	608.9
110°	151.5	192.9	592.0	1246.0	1339.0	1246.0	592.0	192.9	151.5	192.9	592.0



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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°	168.4	209.8	575.1	1210.8	1367.2	1210.8	575.1	209.8	168.4	209.8	575.1
115°	193.8	235.2	549.7	1142.6	1335.5	1142.6	549.7	235.2	193.8	235.2	549.7
117.5°	219.9	260.5	543.4	1068.7	1267.1	1068.7	543.4	260.5	219.9	260.5	543.4
120°	239.6	277.5	532.1	1012.5	1219.2	1012.5	532.1	277.5	239.6	277.5	532.1
122.5°	253.7	294.4	518.0	964.2	1154.4	964.2	518.0	294.4	253.7	294.4	518.0
125°	278.4	316.3	518.0	905.8	1071.2	905.8	518.0	316.3	278.4	316.3	518.0
127.5°	298.8	337.4	518.7	838.1	1001.5	838.1	518.7	337.4	298.8	337.4	518.7
130°	310.1	351.4	521.5	792.8	947.9	792.8	521.5	351.4	310.1	351.4	521.5
132.5°	324.2	365.5	521.5	772.5	900.0	772.5	521.5	365.5	324.2	365.5	521.5
135°	345.3	383.2	521.5	746.0	856.3	746.0	521.5	383.2	345.3	383.2	521.5
137.5°	362.9	403.6	521.5	716.8	811.2	716.8	521.5	403.6	362.9	403.6	521.5
140°	377.0	414.9	521.5	699.7	785.8	699.7	521.5	414.9	377.0	414.9	521.5
142.5°	391.1	426.3	524.3	679.8	760.4	679.8	524.3	426.3	391.1	426.3	524.3
145°	408.8	443.2	525.0	649.9	718.8	649.9	525.0	443.2	408.8	443.2	525.0
147.5°	429.9	460.2	529.3	628.4	681.5	628.4	529.3	460.2	429.9	460.2	529.3
150°	444.0	471.6	532.1	614.2	658.9	614.2	532.1	471.6	444.0	471.6	532.1
152.5°	458.1	482.9	532.1	602.7	639.2	602.7	532.1	482.9	458.1	482.9	532.1
155°	479.2	496.5	535.6	589.1	616.7	589.1	535.6	496.5	479.2	496.5	535.6
157.5°	496.1	512.7	539.8	580.5	600.4	580.5	539.8	512.7	496.1	512.7	539.8
160°	507.4	521.2	542.7	574.8	592.0	574.8	542.7	521.2	507.4	521.2	542.7
162.5°	515.9	529.7	545.5	571.8	583.5	571.8	545.5	529.7	515.9	529.7	545.5
165°	532.1	539.0	549.7	564.0	574.4	564.0	549.7	539.0	532.1	539.0	549.7
167.5°	541.2	547.5	553.2	560.4	566.6	560.4	553.2	547.5	541.2	547.5	553.2
170°	549.7	553.2	553.2	560.4	563.8	560.4	553.2	553.2	549.7	553.2	553.2
172.5°	552.5	558.7	556.0	557.5	561.0	557.5	556.0	558.7	552.5	558.7	556.0
175°	560.3	563.7	560.3	556.7	553.2	556.7	560.3	563.7	560.3	563.7	560.3
177.5°	560.3	563.0	560.3	560.2	557.5	560.2	560.3	563.0	560.3	563.0	560.3
180°	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1077.6	1076.7	1078.5	1094.5	1127.1	1156.4
5°	981.5	985.0	988.4	1015.5	1072.4	1150.3
7.5°	907.7	902.7	910.5	954.5	1024.3	1136.3
10°	856.9	845.4	856.9	917.0	998.4	1122.2
12.5°	809.0	794.8	812.7	878.5	976.8	1103.4
15°	747.3	761.0	753.0	826.7	944.5	1070.6
17.5°	761.9	831.1	776.6	781.7	912.3	1036.8
20°	796.6	867.7	819.6	751.6	891.5	1009.6
22.5°	828.1	881.8	838.2	726.3	870.8	985.2
25°	852.4	898.2	850.1	703.6	840.8	943.9
27.5°	853.6	860.0	854.0	701.7	803.6	902.9
30°	837.8	810.3	835.5	703.6	777.2	870.1
32.5°	792.7	761.5	783.0	699.8	750.6	826.9
35°	728.4	687.1	717.0	680.1	709.3	754.0
37.5°	660.6	608.3	649.6	641.2	674.1	656.2
40°	614.7	523.0	605.5	602.7	654.8	574.6
42.5°	555.9	478.0	547.7	571.8	633.6	528.6
45°	448.9	439.7	444.3	519.5	588.6	481.9
47.5°	410.5	404.3	408.2	471.9	537.7	461.5
50°	387.9	379.9	385.7	440.9	505.2	445.6
52.5°	356.7	334.9	354.4	398.7	471.6	419.3
55°	268.2	202.9	267.1	350.6	421.1	375.2
57.5°	157.4	117.3	153.9	305.1	356.8	328.6
60°	106.5	98.5	107.7	268.5	314.0	301.4
62.5°	97.3	94.7	97.5	186.9	275.8	274.2
65°	89.1	87.9	89.1	107.9	227.6	234.5
67.5°	80.6	79.5	81.6	82.8	179.7	194.2
70°	75.0	73.9	75.0	76.2	137.9	168.9
72.5°	68.5	67.3	68.5	69.7	97.0	144.5
75°	58.6	57.5	58.6	59.8	64.3	109.1
77.5°	47.4	47.4	48.5	48.5	45.0	75.8
80°	39.9	39.9	41.0	41.0	39.1	55.1
82.5°	32.3	31.4	33.5	34.5	32.3	39.2
85°	19.9	18.8	21.1	22.3	21.1	18.8
87.5°	9.6	8.7	10.5	11.7	10.9	5.6
90°	10.6	10.6	10.6	7.0	3.4	0.0
92.5°	21.9	24.7	21.9	15.5	11.9	8.5
95°	31.9	38.8	31.9	28.2	52.3	28.2
97.5°	61.1	52.9	61.1	207.2	100.3	50.0
100°	122.4	81.0	122.4	415.8	125.5	67.0
102.5°	323.0	176.9	323.0	562.4	145.2	83.9
105°	814.8	539.1	814.8	637.8	167.8	109.2
107.5°	1185.8	1110.7	1185.8	608.9	178.7	134.6
110°	1246.0	1339.0	1246.0	592.0	192.9	151.5





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1210.8	1367.2	1210.8	575.1	209.8	168.4
115°	1142.6	1335.5	1142.6	549.7	235.2	193.8
117.5°	1068.7	1267.1	1068.7	543.4	260.5	219.9
120°	1012.5	1219.2	1012.5	532.1	277.5	239.6
122.5°	964.2	1154.4	964.2	518.0	294.4	253.7
125°	905.8	1071.2	905.8	518.0	316.3	278.4
127.5°	838.1	1001.5	838.1	518.7	337.4	298.8
130°	792.8	947.9	792.8	521.5	351.4	310.1
132.5°	772.5	900.0	772.5	521.5	365.5	324.2
135°	746.0	856.3	746.0	521.5	383.2	345.3
137.5°	716.8	811.2	716.8	521.5	403.6	362.9
140°	699.7	785.8	699.7	521.5	414.9	377.0
142.5°	679.8	760.4	679.8	524.3	426.3	391.1
145°	649.9	718.8	649.9	525.0	443.2	408.8
147.5°	628.4	681.5	628.4	529.3	460.2	429.9
150°	614.2	658.9	614.2	532.1	471.6	444.0
152.5°	602.7	639.2	602.7	532.1	482.9	458.1
155°	589.1	616.7	589.1	535.6	496.5	479.2
157.5°	580.5	600.4	580.5	539.8	512.7	496.1
160°	574.8	592.0	574.8	542.7	521.2	507.4
162.5°	571.8	583.5	571.8	545.5	529.7	515.9
165°	564.0	574.4	564.0	549.7	539.0	532.1
167.5°	560.4	566.6	560.4	553.2	547.5	541.2
170°	560.4	563.8	560.4	553.2	553.2	549.7
172.5°	557.5	561.0	557.5	556.0	558.7	552.5
175°	556.7	553.2	556.7	560.3	563.7	560.3
177.5°	560.2	557.5	560.2	560.3	563.0	560.3
180°	560.3	560.3	560.3	560.3	560.3	560.3

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