

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: P621708

Luminaire Tested: VLT-FA-125U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621708  
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-125U-075D-940-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

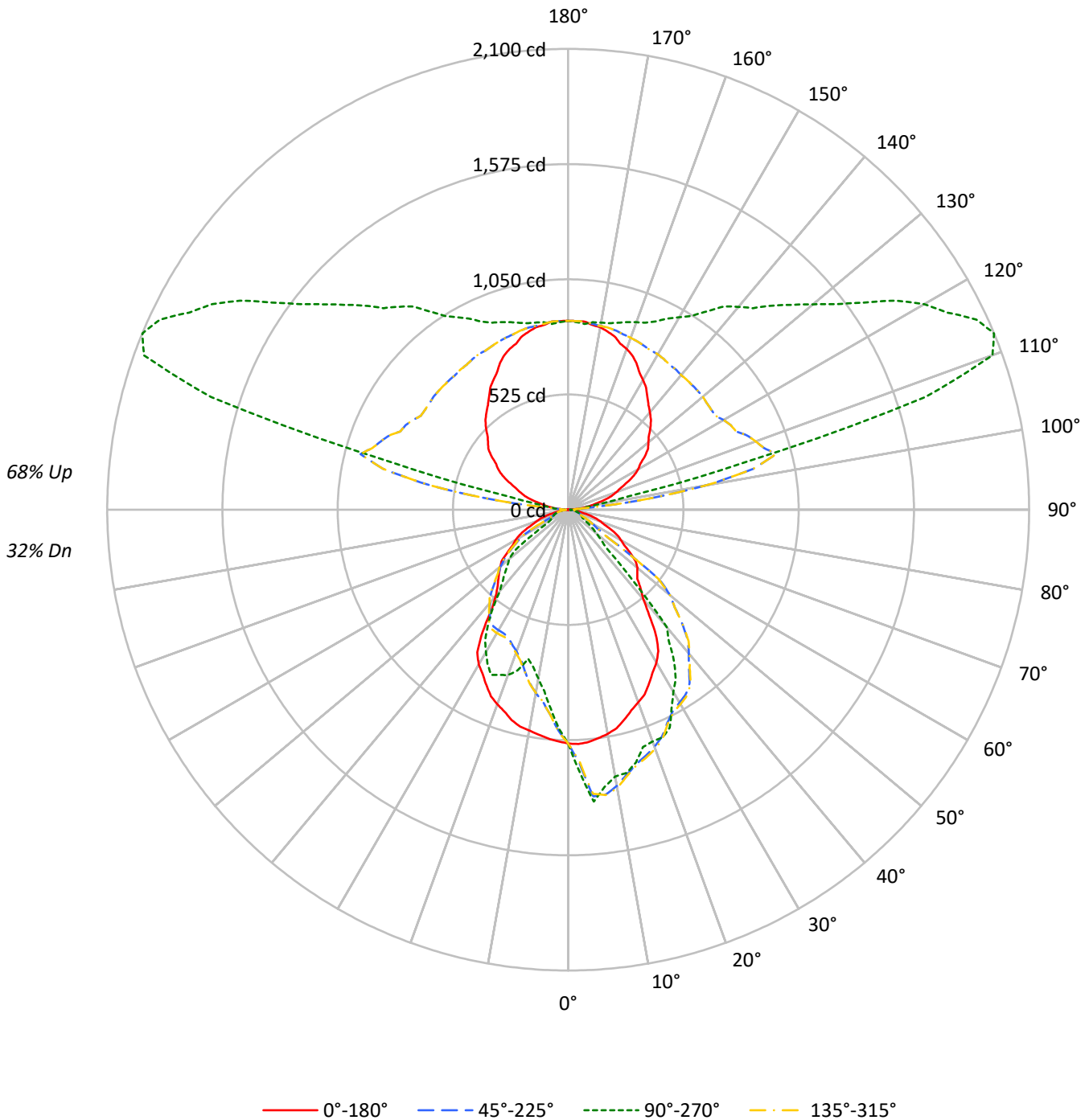
Lumens per Lamp: N/A  
Luminaire Lumens: 6820.7 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 59.8  
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: P621708  
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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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32				
1	94	90	87	84	85	82	79	76	65	63	61	50	49	48	36	35	35	28				
2	86	79	74	69	78	72	67	63	58	54	52	44	42	41	32	31	30	25				
3	79	70	63	58	71	64	58	53	51	47	44	40	37	35	29	27	26	21				
4	72	62	55	49	65	57	50	45	46	41	38	36	33	30	26	24	23	19				
5	67	56	48	43	60	51	44	39	41	36	33	32	29	26	24	22	20	17				
6	61	50	42	37	55	46	39	34	37	32	29	29	26	23	22	20	18	15				
7	57	45	38	32	51	41	35	30	34	29	25	27	23	21	20	18	16	13				
8	53	41	34	29	47	37	31	27	31	26	23	24	21	18	18	16	15	12				
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11				
10	46	34	27	23	41	31	25	21	26	21	18	21	17	15	16	14	12	10				

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

	0°	90°	180°	270°
0°	7645	7645	7645	7645
5°	7658	9617	7540	6557
10°	7557	8994	7446	5693
15°	7350	8856	7375	5225
20°	7126	8582	7208	6124
25°	6907	8675	6984	6573
30°	6663	7938	6752	6205
35°	6104	7358	5953	5563
40°	4974	6548	4802	4527
45°	4520	2431	4564	4124
50°	4597	1851	4512	3920
55°	4339	1437	4190	2346
60°	3997	1104	3965	1306
65°	3680	1141	3606	1380
70°	3275	1204	3183	1433
75°	2795	1262	2673	1472
80°	2103	1298	1971	1521
85°	1424	1161	1251	1424

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8369 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	1.5
10°-20°	281.5	4.1
20°-30°	421.2	6.2
30°-40°	479.0	7.0
40°-50°	409.7	6.0
50°-60°	276.3	4.1
60°-70°	142.6	2.1
70°-80°	64.4	0.9
80°-90°	21.1	0.3
90°-100°	105.8	1.6
100°-110°	753.9	11.1
110°-120°	1023.4	15.0
120°-130°	833.0	12.2
130°-140°	670.0	9.8
140°-150°	528.2	7.7
150°-160°	386.2	5.7
160°-170°	239.9	3.5
170°-180°	81.8	1.2
0°-30°	805.5	11.8
0°-40°	1284.5	18.8
0°-60°	1970.5	28.9
0°-90°	2198.5	32.2
90°-120°	1883.1	27.6
90°-150°	3914.2	57.4
90°-180°	4622.0	67.8
0°-180°	6820.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1065	1065	1065	1065	1065	
5°	1063	1335	1047	910	1063	101
15°	989	1192	993	703	989	278
25°	872	1096	882	830	872	402
35°	697	840	680	635	697	426
45°	445	240	450	406	445	353
55°	347	115	335	188	347	309
65°	217	67	212	81	217	214
75°	101	46	96	53	101	107
85°	17	14	15	17	17	22
90°	0	16	0	16	0	2
95°	43	60	43	60	43	48
105°	168	828	168	828	168	177
115°	298	2051	298	2051	298	295
125°	428	1645	428	1645	428	380
135°	530	1315	530	1315	530	408
145°	628	1104	628	1104	628	394
155°	736	947	736	947	736	338
165°	817	882	817	882	817	229
175°	860	850	860	850	860	81
180°	860	860	860	860	860	



TEST NUMBER: P621708

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1065.3	1065.3	1065.3	1065.3	1065.3	1065.3	1065.3	1065.3	1065.3	1065.3	1065.3
2.5°	1068.7	1105.2	1151.1	1182.6	1196.2	1182.6	1143.3	1104.9	1056.6	1042.2	1008.0
5°	1063.1	1175.4	1311.3	1327.7	1335.1	1327.7	1299.3	1168.7	1046.8	994.9	938.5
7.5°	1050.1	1246.5	1309.7	1273.1	1273.3	1280.1	1311.7	1240.4	1033.2	951.6	882.3
10°	1037.1	1286.1	1277.7	1224.8	1234.3	1230.1	1287.4	1278.3	1021.9	927.6	848.5
12.5°	1019.7	1298.4	1235.2	1217.9	1228.2	1222.3	1241.5	1291.7	1012.4	910.4	809.5
15°	989.4	1280.8	1199.6	1192.1	1192.1	1197.3	1205.1	1286.2	992.7	879.3	761.8
17.5°	958.2	1245.6	1174.9	1137.3	1133.3	1140.3	1183.8	1254.6	964.7	844.7	715.7
20°	933.1	1221.3	1149.8	1105.8	1123.8	1107.9	1159.5	1227.9	943.9	823.1	687.1
22.5°	910.5	1191.1	1117.7	1099.0	1122.9	1099.4	1126.6	1197.7	919.6	798.8	665.4
25°	872.4	1140.4	1069.6	1087.1	1095.6	1087.1	1073.9	1144.9	882.1	767.7	642.6
27.5°	834.4	1087.0	1033.6	1045.4	1019.5	1039.4	1039.5	1087.2	843.5	731.4	635.7
30°	804.1	1049.9	1015.4	998.2	958.0	989.8	1023.0	1050.2	814.9	707.9	634.0
32.5°	764.2	1016.0	997.2	937.9	912.0	933.6	1005.7	1015.3	770.7	686.6	632.2
35°	696.8	968.1	964.5	866.3	839.9	860.0	972.1	965.6	679.5	653.0	618.8
37.5°	606.4	925.4	901.8	794.0	751.9	788.7	909.0	920.8	571.5	622.2	587.4
40°	531.0	896.6	855.0	740.3	699.0	735.0	860.4	894.0	512.6	600.5	552.7
42.5°	488.5	871.0	805.6	683.4	427.6	674.7	811.0	867.8	476.2	572.6	522.3
45°	445.4	824.7	733.7	378.3	239.5	360.3	734.7	813.2	449.7	530.3	475.7
47.5°	426.5	767.7	658.4	227.9	202.2	221.3	657.8	755.2	426.8	487.8	431.3
50°	411.8	731.8	604.7	200.8	165.8	193.4	605.8	720.0	404.2	459.3	401.0
52.5°	387.5	688.9	527.5	166.4	143.3	162.3	514.7	675.4	380.8	428.3	362.8
55°	346.8	606.4	220.0	130.8	114.9	125.5	209.2	586.0	334.9	379.4	318.6
57.5°	303.6	516.2	154.3	101.8	89.1	100.7	153.2	495.5	298.0	321.3	277.9
60°	278.5	455.5	125.7	85.4	76.9	84.4	124.6	437.4	276.3	282.7	240.6
62.5°	253.4	393.9	104.0	75.1	72.6	74.1	103.8	374.1	249.5	249.9	169.5
65°	216.7	298.3	76.9	68.2	67.2	67.2	74.8	287.6	212.4	206.0	97.5
67.5°	179.5	214.2	61.8	62.8	61.8	61.8	60.7	208.2	175.1	164.3	73.7
70°	156.1	164.5	57.4	58.5	57.4	57.4	56.4	160.2	151.7	127.3	69.4
72.5°	133.5	112.3	53.1	53.3	53.1	53.1	52.0	105.4	129.2	89.5	63.3
75°	100.8	56.3	45.5	45.5	45.5	45.5	44.4	54.1	96.4	58.3	54.2
77.5°	70.0	37.2	37.7	37.5	37.5	36.6	36.6	36.9	65.9	40.2	43.8
80°	50.9	30.8	32.5	31.4	31.4	31.4	31.4	29.7	47.7	33.9	36.8
82.5°	36.2	24.5	26.4	25.4	25.4	25.4	25.4	24.3	32.9	27.6	29.9
85°	17.3	16.3	17.3	15.1	14.1	15.1	16.3	16.2	15.2	18.4	19.5
87.5°	5.2	8.8	9.1	8.4	8.4	8.4	8.2	7.9	4.3	9.6	10.0
90°	0.0	5.3	10.8	16.2	16.2	16.2	10.8	5.3	0.0	5.3	10.8
92.5°	13.0	18.3	23.8	33.6	37.9	33.6	23.8	18.3	13.0	18.3	23.8
95°	43.3	80.3	43.3	48.9	59.5	48.9	43.3	80.3	43.3	80.3	43.3
97.5°	76.8	154.1	318.2	93.9	81.2	93.9	318.2	154.1	76.8	154.1	318.2
100°	102.8	192.8	638.6	188.0	124.5	188.0	638.6	192.8	102.8	192.8	638.6
102.5°	128.8	223.0	863.7	496.0	271.7	496.0	863.7	223.0	128.8	223.0	863.7
105°	167.8	257.7	979.5	1251.3	828.0	1251.3	979.5	257.7	167.8	257.7	979.5
107.5°	206.7	274.5	935.1	1821.1	1705.8	1821.1	935.1	274.5	206.7	274.5	935.1
110°	232.7	296.2	909.2	1913.6	2056.4	1913.6	909.2	296.2	232.7	296.2	909.2



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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°	258.7	322.2	883.2	1859.5	2099.7	1859.5	883.2	322.2	258.7	322.2	883.2
115°	297.6	361.1	844.2	1754.7	2051.0	1754.7	844.2	361.1	297.6	361.1	844.2
117.5°	337.7	400.1	834.5	1641.2	1946.0	1641.2	834.5	400.1	337.7	400.1	834.5
120°	368.0	426.2	817.2	1554.9	1872.4	1554.9	817.2	426.2	368.0	426.2	817.2
122.5°	389.6	452.1	795.5	1480.8	1772.9	1480.8	795.5	452.1	389.6	452.1	795.5
125°	427.5	485.7	795.5	1391.2	1645.1	1391.2	795.5	485.7	427.5	485.7	795.5
127.5°	458.9	518.2	796.6	1287.2	1538.0	1287.2	796.6	518.2	458.9	518.2	796.6
130°	476.2	539.7	800.9	1217.6	1455.7	1217.6	800.9	539.7	476.2	539.7	800.9
132.5°	497.9	561.4	800.9	1186.4	1382.1	1186.4	800.9	561.4	497.9	561.4	800.9
135°	530.3	588.5	800.9	1145.7	1315.0	1145.7	800.9	588.5	530.3	588.5	800.9
137.5°	557.4	619.8	800.9	1100.8	1245.8	1100.8	800.9	619.8	557.4	619.8	800.9
140°	579.0	637.3	800.9	1074.5	1206.8	1074.5	800.9	637.3	579.0	637.3	800.9
142.5°	600.7	654.7	805.3	1044.0	1167.8	1044.0	805.3	654.7	600.7	654.7	805.3
145°	627.8	680.7	806.3	998.1	1104.0	998.1	806.3	680.7	627.8	680.7	806.3
147.5°	660.2	706.8	812.8	965.1	1046.6	965.1	812.8	706.8	660.2	706.8	812.8
150°	681.9	724.2	817.2	943.2	1012.0	943.2	817.2	724.2	681.9	724.2	817.2
152.5°	703.5	741.6	817.2	925.6	981.7	925.6	817.2	741.6	703.5	741.6	817.2
155°	736.0	762.4	822.6	904.7	947.0	904.7	822.6	762.4	736.0	762.4	822.6
157.5°	762.0	787.4	829.1	891.5	922.1	891.5	829.1	787.4	762.0	787.4	829.1
160°	779.3	800.4	833.4	882.7	909.2	882.7	833.4	800.4	779.3	800.4	833.4
162.5°	792.3	813.4	837.7	878.2	896.2	878.2	837.7	813.4	792.3	813.4	837.7
165°	817.2	827.7	844.2	866.2	882.1	866.2	844.2	827.7	817.2	827.7	844.2
167.5°	831.2	840.8	849.6	860.7	870.2	860.7	849.6	840.8	831.2	840.8	849.6
170°	844.2	849.5	849.6	860.6	865.9	860.6	849.6	849.5	844.2	849.5	849.6
172.5°	848.5	858.1	854.0	856.2	861.5	856.2	854.0	858.1	848.5	858.1	854.0
175°	860.5	865.7	860.5	854.9	849.6	854.9	860.5	865.7	860.5	865.7	860.5
177.5°	860.5	864.7	860.5	860.4	856.1	860.4	860.5	864.7	860.5	864.7	860.5
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1065.3	1065.3	1065.3	1065.3	1065.3	1065.3
2.5°	995.9	995.0	996.7	1011.5	1041.6	1068.7
5°	907.1	910.3	913.5	938.5	991.0	1063.1
7.5°	838.9	834.2	841.4	882.1	946.7	1050.1
10°	791.9	781.3	791.9	847.4	922.6	1037.1
12.5°	747.7	734.5	751.1	811.9	902.8	1019.7
15°	690.6	703.3	695.9	764.0	872.8	989.4
17.5°	704.1	768.1	717.7	722.4	843.1	958.2
20°	736.2	801.9	757.4	694.6	823.9	933.1
22.5°	765.3	814.9	774.7	671.2	804.8	910.5
25°	787.7	830.1	785.6	650.2	777.0	872.4
27.5°	788.8	794.8	789.3	648.5	742.7	834.4
30°	774.3	748.8	772.1	650.2	718.3	804.1
32.5°	732.6	703.7	723.7	646.7	693.6	764.2
35°	673.2	635.0	662.6	628.5	655.5	696.8
37.5°	610.5	562.2	600.4	592.6	623.0	606.4
40°	568.1	483.3	559.6	557.0	605.2	531.0
42.5°	513.8	441.7	506.1	528.4	585.6	488.5
45°	414.9	406.4	410.6	480.1	543.9	445.4
47.5°	379.4	373.7	377.3	436.1	496.9	426.5
50°	358.5	351.1	356.4	407.5	466.9	411.8
52.5°	329.6	309.5	327.5	368.5	435.8	387.5
55°	247.9	187.5	246.8	324.0	389.2	346.8
57.5°	145.5	108.4	142.3	282.0	329.7	303.6
60°	98.4	91.0	99.5	248.2	290.2	278.5
62.5°	89.9	87.6	90.1	172.7	254.8	253.4
65°	82.3	81.3	82.3	99.7	210.4	216.7
67.5°	74.5	73.5	75.4	76.5	166.1	179.5
70°	69.3	68.3	69.3	70.4	127.4	156.1
72.5°	63.3	62.2	63.3	64.4	89.6	133.5
75°	54.2	53.1	54.2	55.3	59.5	100.8
77.5°	43.8	43.8	44.8	44.9	41.6	70.0
80°	36.8	36.8	37.9	37.9	36.1	50.9
82.5°	29.9	29.0	30.9	31.9	29.8	36.2
85°	18.4	17.3	19.5	20.6	19.5	17.3
87.5°	10.2	9.3	11.0	11.7	10.5	5.2
90°	16.2	16.2	16.2	10.8	5.3	0.0
92.5°	33.6	37.9	33.6	23.8	18.3	13.0
95°	48.9	59.5	48.9	43.3	80.3	43.3
97.5°	93.9	81.2	93.9	318.2	154.1	76.8
100°	188.0	124.5	188.0	638.6	192.8	102.8
102.5°	496.0	271.7	496.0	863.7	223.0	128.8
105°	1251.3	828.0	1251.3	979.5	257.7	167.8
107.5°	1821.1	1705.8	1821.1	935.1	274.5	206.7
110°	1913.6	2056.4	1913.6	909.2	296.2	232.7





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1859.5	2099.7	1859.5	883.2	322.2	258.7
115°	1754.7	2051.0	1754.7	844.2	361.1	297.6
117.5°	1641.2	1946.0	1641.2	834.5	400.1	337.7
120°	1554.9	1872.4	1554.9	817.2	426.2	368.0
122.5°	1480.8	1772.9	1480.8	795.5	452.1	389.6
125°	1391.2	1645.1	1391.2	795.5	485.7	427.5
127.5°	1287.2	1538.0	1287.2	796.6	518.2	458.9
130°	1217.6	1455.7	1217.6	800.9	539.7	476.2
132.5°	1186.4	1382.1	1186.4	800.9	561.4	497.9
135°	1145.7	1315.0	1145.7	800.9	588.5	530.3
137.5°	1100.8	1245.8	1100.8	800.9	619.8	557.4
140°	1074.5	1206.8	1074.5	800.9	637.3	579.0
142.5°	1044.0	1167.8	1044.0	805.3	654.7	600.7
145°	998.1	1104.0	998.1	806.3	680.7	627.8
147.5°	965.1	1046.6	965.1	812.8	706.8	660.2
150°	943.2	1012.0	943.2	817.2	724.2	681.9
152.5°	925.6	981.7	925.6	817.2	741.6	703.5
155°	904.7	947.0	904.7	822.6	762.4	736.0
157.5°	891.5	922.1	891.5	829.1	787.4	762.0
160°	882.7	909.2	882.7	833.4	800.4	779.3
162.5°	878.2	896.2	878.2	837.7	813.4	792.3
165°	866.2	882.1	866.2	844.2	827.7	817.2
167.5°	860.7	870.2	860.7	849.6	840.8	831.2
170°	860.6	865.9	860.6	849.6	849.5	844.2
172.5°	856.2	861.5	856.2	854.0	858.1	848.5
175°	854.9	849.6	854.9	860.5	865.7	860.5
177.5°	860.4	856.1	860.4	860.5	864.7	860.5
180°	860.5	860.5	860.5	860.5	860.5	860.5

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