

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: P621635

Luminaire Tested: VLT-FA-075U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621635  
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-935-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, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

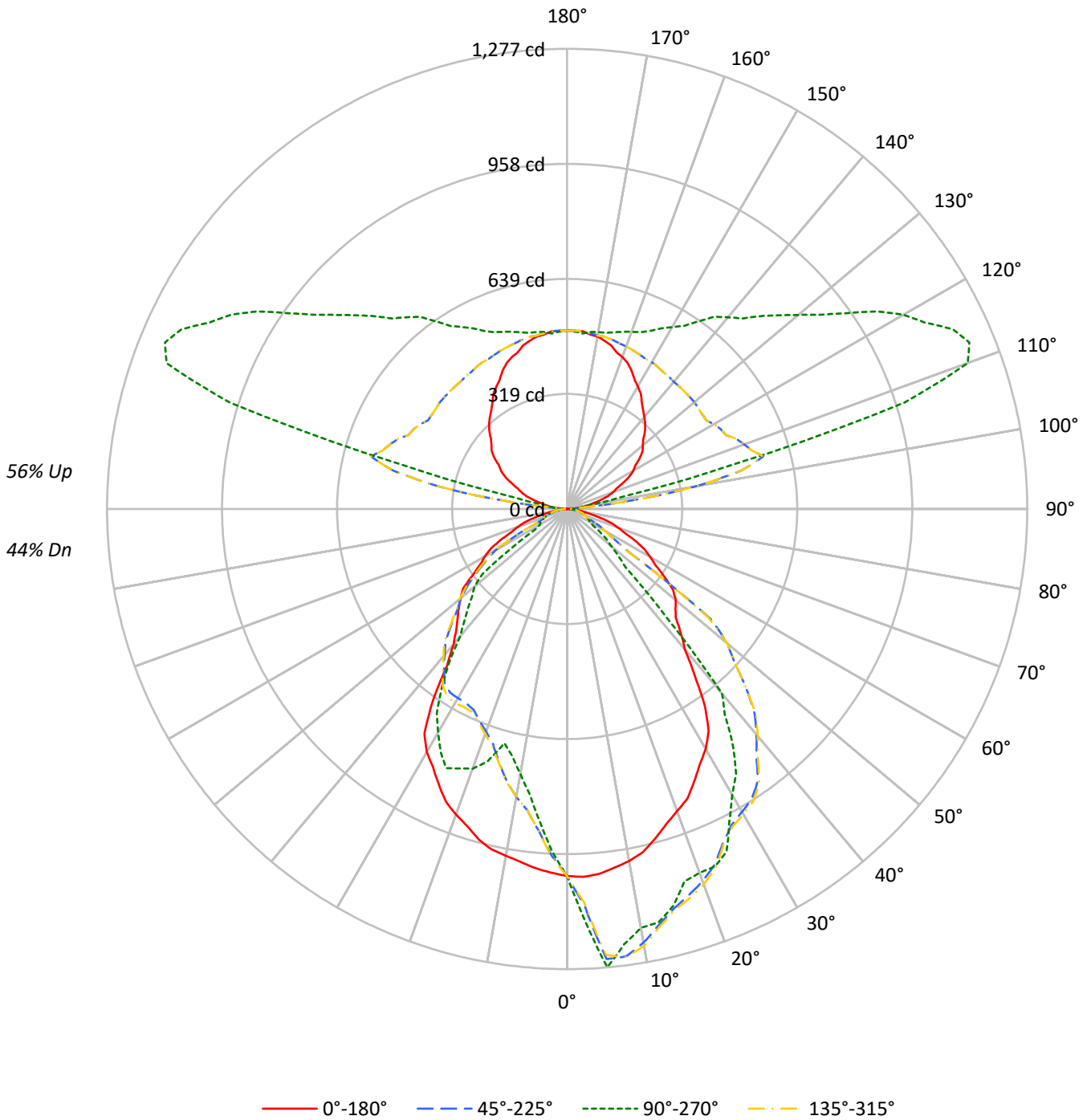
Lumens per Lamp: N/A  
Luminaire Lumens: 4760.9 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 42.4  
Input Voltage (V): 120  
Input Current (Ain): 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	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°	7309	7309	7309	7309
5°	7322	9196	7210	6270
10°	7225	8600	7120	5444
15°	7028	8468	7051	4996
20°	6813	8205	6892	5856
25°	6604	8295	6678	6284
30°	6370	7590	6457	5933
35°	5837	7034	5692	5319
40°	4756	6260	4591	4329
45°	4322	2324	4364	3944
50°	4395	1769	4315	3748
55°	4149	1374	4006	2243
60°	3822	1056	3792	1249
65°	3518	1090	3449	1319
70°	3130	1152	3044	1370
75°	2673	1206	2556	1408
80°	2013	1240	1884	1455
85°	1367	1112	1194	1367

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8003 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.3	2.1
10°-20°	269.2	5.7
20°-30°	402.7	8.5
30°-40°	458.0	9.6
40°-50°	391.7	8.2
50°-60°	264.2	5.5
60°-70°	136.3	2.9
70°-80°	61.6	1.3
80°-90°	19.4	0.4
90°-100°	60.9	1.3
100°-110°	433.8	9.1
110°-120°	588.9	12.4
120°-130°	479.3	10.1
130°-140°	385.5	8.1
140°-150°	303.9	6.4
150°-160°	222.2	4.7
160°-170°	138.0	2.9
170°-180°	47.1	1.0
0°-30°	770.2	16.2
0°-40°	1228.2	25.8
0°-60°	1884.1	39.6
0°-90°	2101.4	44.1
90°-120°	1083.5	22.8
90°-150°	2252.2	47.3
90°-180°	2659.0	55.9
0°-180°	4760.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1019	1019	1019	1019	1019	
5°	1016	1277	1001	870	1016	96
15°	946	1140	949	672	946	266
25°	834	1048	843	794	834	384
35°	666	803	650	607	666	407
45°	426	229	430	389	426	338
55°	332	110	320	179	332	295
65°	207	64	203	78	207	205
75°	96	44	92	51	96	103
85°	17	14	14	17	17	21
90°	0	9	0	9	0	2
95°	25	34	25	34	25	28
105°	96	476	96	476	96	102
115°	171	1180	171	1180	171	170
125°	246	947	246	947	246	219
135°	305	757	305	757	305	235
145°	361	635	361	635	361	227
155°	424	545	424	545	424	194
165°	470	508	470	508	470	132
175°	495	489	495	489	495	47
180°	495	495	495	495	495	



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CATALOG NUMBER: VLT-FA-075U-075D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6
2.5°	1021.9	1056.7	1100.6	1130.8	1143.7	1130.8	1093.2	1056.5	1010.3	996.5	963.9
5°	1016.5	1123.9	1253.8	1269.5	1276.6	1269.5	1242.4	1117.5	1000.9	951.3	897.3
7.5°	1004.1	1191.9	1252.3	1217.3	1217.5	1224.0	1254.2	1186.1	987.9	909.9	843.7
10°	991.6	1229.7	1221.7	1171.1	1180.2	1176.2	1231.0	1222.3	977.1	886.9	811.3
12.5°	975.0	1241.5	1181.0	1164.5	1174.4	1168.7	1187.0	1235.1	968.0	870.5	774.0
15°	946.0	1224.6	1147.0	1139.8	1139.8	1144.9	1152.2	1229.8	949.1	840.7	728.4
17.5°	916.2	1191.0	1123.4	1087.5	1083.6	1090.3	1131.9	1199.6	922.4	807.7	684.3
20°	892.1	1167.7	1099.4	1057.3	1074.5	1059.3	1108.7	1174.0	902.5	787.0	656.9
22.5°	870.6	1138.9	1068.7	1050.8	1073.7	1051.2	1077.2	1145.1	879.3	763.8	636.2
25°	834.1	1090.4	1022.7	1039.5	1047.6	1039.5	1026.8	1094.7	843.4	734.0	614.5
27.5°	797.9	1039.4	988.3	999.6	974.8	993.9	993.9	1039.6	806.6	699.4	607.8
30°	768.8	1003.9	970.9	954.5	916.0	946.4	978.1	1004.1	779.2	676.9	606.2
32.5°	730.7	971.4	953.5	896.8	872.0	892.7	961.6	970.8	736.9	656.5	604.5
35°	666.3	925.6	922.2	828.4	803.0	822.3	929.4	923.2	649.7	624.4	591.7
37.5°	579.8	884.8	862.3	759.2	718.9	754.2	869.1	880.4	546.5	594.9	561.6
40°	507.7	857.3	817.5	707.8	668.3	702.8	822.7	854.8	490.1	574.2	528.4
42.5°	467.1	832.9	770.3	653.4	408.9	645.1	775.5	829.8	455.3	547.5	499.4
45°	425.9	788.6	701.5	361.7	229.0	344.5	702.5	777.5	430.0	507.0	454.9
47.5°	407.8	734.1	629.6	217.9	193.4	211.6	629.0	722.1	408.0	466.4	412.4
50°	393.7	699.7	578.2	192.0	158.5	184.9	579.2	688.4	386.5	439.2	383.4
52.5°	370.5	658.7	504.4	159.1	137.0	155.2	492.2	645.8	364.1	409.5	346.9
55°	331.6	579.8	210.3	125.0	109.8	120.0	200.0	560.3	320.2	362.7	304.6
57.5°	290.3	493.6	147.6	97.3	85.2	96.3	146.5	473.8	284.9	307.2	265.7
60°	266.3	435.5	120.2	81.7	73.6	80.7	119.2	418.2	264.2	270.3	230.0
62.5°	242.3	376.6	99.5	71.9	69.4	70.8	99.3	357.7	238.5	238.9	162.1
65°	207.2	285.2	73.6	65.3	64.2	64.2	71.5	275.0	203.1	197.0	93.3
67.5°	171.6	204.8	59.1	60.1	59.1	59.1	58.0	199.1	167.4	157.1	70.5
70°	149.2	157.3	54.9	55.9	54.9	54.9	53.9	153.2	145.1	121.8	66.3
72.5°	127.7	107.4	50.8	51.0	50.8	50.8	49.7	100.8	123.5	85.6	60.5
75°	96.4	53.8	43.5	43.5	43.5	43.5	42.5	51.7	92.2	55.7	51.8
77.5°	66.9	35.5	36.1	35.9	35.9	35.0	35.0	35.2	63.0	38.5	41.9
80°	48.7	29.5	31.1	30.0	30.0	30.0	30.0	28.4	45.6	32.4	35.2
82.5°	34.6	23.5	25.3	24.2	24.2	24.2	24.2	23.2	31.5	26.4	28.6
85°	16.6	15.6	16.6	14.5	13.5	14.5	15.5	15.5	14.5	17.5	18.7
87.5°	5.0	8.0	7.9	6.8	6.8	6.8	7.0	7.2	4.1	8.8	8.7
90°	0.0	3.0	6.2	9.3	9.3	9.3	6.2	3.0	0.0	3.0	6.2
92.5°	7.5	10.5	13.7	19.4	21.8	19.4	13.7	10.5	7.5	10.5	13.7
95°	24.9	46.2	24.9	28.2	34.3	28.2	24.9	46.2	24.9	46.2	24.9
97.5°	44.2	88.7	183.1	54.0	46.7	54.0	183.1	88.7	44.2	88.7	183.1
100°	59.2	110.9	367.4	108.2	71.6	108.2	367.4	110.9	59.2	110.9	367.4
102.5°	74.1	128.3	497.0	285.4	156.3	285.4	497.0	128.3	74.1	128.3	497.0
105°	96.5	148.3	563.6	720.0	476.4	720.0	563.6	148.3	96.5	148.3	563.6
107.5°	118.9	157.9	538.1	1047.8	981.5	1047.8	538.1	157.9	118.9	157.9	538.1
110°	133.9	170.4	523.1	1101.0	1183.2	1101.0	523.1	170.4	133.9	170.4	523.1



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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°	148.8	185.4	508.2	1069.9	1208.1	1069.9	508.2	185.4	148.8	185.4	508.2
115°	171.3	207.8	485.8	1009.6	1180.1	1009.6	485.8	207.8	171.3	207.8	485.8
117.5°	194.3	230.2	480.1	944.3	1119.7	944.3	480.1	230.2	194.3	230.2	480.1
120°	211.7	245.2	470.2	894.7	1077.4	894.7	470.2	245.2	211.7	245.2	470.2
122.5°	224.2	260.1	457.7	852.0	1020.1	852.0	457.7	260.1	224.2	260.1	457.7
125°	246.0	279.5	457.7	800.5	946.6	800.5	457.7	279.5	246.0	279.5	457.7
127.5°	264.0	298.1	458.3	740.6	884.9	740.6	458.3	298.1	264.0	298.1	458.3
130°	274.0	310.5	460.8	700.6	837.6	700.6	460.8	310.5	274.0	310.5	460.8
132.5°	286.5	323.0	460.8	682.6	795.3	682.6	460.8	323.0	286.5	323.0	460.8
135°	305.2	338.6	460.8	659.2	756.7	659.2	460.8	338.6	305.2	338.6	460.8
137.5°	320.7	356.6	460.8	633.4	716.8	633.4	460.8	356.6	320.7	356.6	460.8
140°	333.2	366.7	460.8	618.3	694.4	618.3	460.8	366.7	333.2	366.7	460.8
142.5°	345.6	376.7	463.3	600.7	672.0	600.7	463.3	376.7	345.6	376.7	463.3
145°	361.2	391.6	464.0	574.3	635.2	574.3	464.0	391.6	361.2	391.6	464.0
147.5°	379.9	406.7	467.7	555.3	602.2	555.3	467.7	406.7	379.9	406.7	467.7
150°	392.3	416.7	470.2	542.7	582.3	542.7	470.2	416.7	392.3	416.7	470.2
152.5°	404.8	426.7	470.2	532.6	564.8	532.6	470.2	426.7	404.8	426.7	470.2
155°	423.5	438.7	473.3	520.6	544.9	520.6	473.3	438.7	423.5	438.7	473.3
157.5°	438.4	453.0	477.0	512.9	530.6	512.9	477.0	453.0	438.4	453.0	477.0
160°	448.4	460.6	479.5	507.9	523.1	507.9	479.5	460.6	448.4	460.6	479.5
162.5°	455.9	468.0	482.0	505.3	515.6	505.3	482.0	468.0	455.9	468.0	482.0
165°	470.2	476.3	485.8	498.4	507.5	498.4	485.8	476.3	470.2	476.3	485.8
167.5°	478.3	483.8	488.9	495.2	500.7	495.2	488.9	483.8	478.3	483.8	488.9
170°	485.8	488.8	488.9	495.2	498.2	495.2	488.9	488.8	485.8	488.8	488.9
172.5°	488.2	493.7	491.4	492.7	495.7	492.7	491.4	493.7	488.2	493.7	491.4
175°	495.1	498.1	495.1	491.9	488.9	491.9	495.1	498.1	495.1	498.1	495.1
177.5°	495.1	497.5	495.1	495.0	492.6	495.0	495.1	497.5	495.1	497.5	495.1
180°	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6
2.5°	952.2	951.4	953.0	967.2	995.9	1021.9
5°	867.3	870.4	873.4	897.3	947.6	1016.5
7.5°	802.1	797.6	804.5	843.4	905.2	1004.1
10°	757.2	747.1	757.2	810.3	882.2	991.6
12.5°	714.9	702.3	718.1	776.3	863.2	975.0
15°	660.3	672.5	665.4	730.5	834.6	946.0
17.5°	673.2	734.4	686.2	690.7	806.2	916.2
20°	704.0	766.8	724.2	664.2	787.8	892.1
22.5°	731.8	779.2	740.7	641.8	769.5	870.6
25°	753.2	793.7	751.2	621.7	742.9	834.1
27.5°	754.3	759.9	754.7	620.0	710.1	797.9
30°	740.3	716.0	738.3	621.7	686.8	768.8
32.5°	700.4	672.9	691.9	618.4	663.2	730.7
35°	643.7	607.2	633.5	601.0	626.7	666.3
37.5°	583.8	537.6	574.0	566.6	595.6	579.8
40°	543.2	462.1	535.1	532.6	578.6	507.7
42.5°	491.2	422.3	483.9	505.2	559.9	467.1
45°	396.7	388.6	392.6	459.0	520.1	425.9
47.5°	362.7	357.3	360.7	417.0	475.1	407.8
50°	342.8	335.7	340.8	389.6	446.4	393.7
52.5°	315.2	295.9	313.2	352.3	416.7	370.5
55°	237.0	179.3	236.0	309.8	372.1	331.6
57.5°	139.1	103.6	136.0	269.6	315.3	290.3
60°	94.1	87.0	95.1	237.3	277.4	266.3
62.5°	86.0	83.7	86.2	165.2	243.7	242.3
65°	78.7	77.7	78.7	95.3	201.2	207.2
67.5°	71.3	70.3	72.1	73.2	158.8	171.6
70°	66.3	65.3	66.3	67.4	121.9	149.2
72.5°	60.5	59.5	60.5	61.5	85.7	127.7
75°	51.8	50.8	51.8	52.8	56.9	96.4
77.5°	41.9	41.9	42.9	42.9	39.8	66.9
80°	35.2	35.2	36.2	36.3	34.5	48.7
82.5°	28.6	27.8	29.6	30.5	28.5	34.6
85°	17.6	16.6	18.6	19.7	18.6	16.6
87.5°	8.5	7.7	9.3	10.4	9.6	5.0
90°	9.3	9.3	9.3	6.2	3.0	0.0
92.5°	19.4	21.8	19.4	13.7	10.5	7.5
95°	28.2	34.3	28.2	24.9	46.2	24.9
97.5°	54.0	46.7	54.0	183.1	88.7	44.2
100°	108.2	71.6	108.2	367.4	110.9	59.2
102.5°	285.4	156.3	285.4	497.0	128.3	74.1
105°	720.0	476.4	720.0	563.6	148.3	96.5
107.5°	1047.8	981.5	1047.8	538.1	157.9	118.9
110°	1101.0	1183.2	1101.0	523.1	170.4	133.9





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1069.9	1208.1	1069.9	508.2	185.4	148.8
115°	1009.6	1180.1	1009.6	485.8	207.8	171.3
117.5°	944.3	1119.7	944.3	480.1	230.2	194.3
120°	894.7	1077.4	894.7	470.2	245.2	211.7
122.5°	852.0	1020.1	852.0	457.7	260.1	224.2
125°	800.5	946.6	800.5	457.7	279.5	246.0
127.5°	740.6	884.9	740.6	458.3	298.1	264.0
130°	700.6	837.6	700.6	460.8	310.5	274.0
132.5°	682.6	795.3	682.6	460.8	323.0	286.5
135°	659.2	756.7	659.2	460.8	338.6	305.2
137.5°	633.4	716.8	633.4	460.8	356.6	320.7
140°	618.3	694.4	618.3	460.8	366.7	333.2
142.5°	600.7	672.0	600.7	463.3	376.7	345.6
145°	574.3	635.2	574.3	464.0	391.6	361.2
147.5°	555.3	602.2	555.3	467.7	406.7	379.9
150°	542.7	582.3	542.7	470.2	416.7	392.3
152.5°	532.6	564.8	532.6	470.2	426.7	404.8
155°	520.6	544.9	520.6	473.3	438.7	423.5
157.5°	512.9	530.6	512.9	477.0	453.0	438.4
160°	507.9	523.1	507.9	479.5	460.6	448.4
162.5°	505.3	515.6	505.3	482.0	468.0	455.9
165°	498.4	507.5	498.4	485.8	476.3	470.2
167.5°	495.2	500.7	495.2	488.9	483.8	478.3
170°	495.2	498.2	495.2	488.9	488.8	485.8
172.5°	492.7	495.7	492.7	491.4	493.7	488.2
175°	491.9	488.9	491.9	495.1	498.1	495.1
177.5°	495.0	492.6	495.0	495.1	497.5	495.1
180°	495.1	495.1	495.1	495.1	495.1	495.1

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