

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: P621707

Luminaire Tested: VLT-FA-125U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621707
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-935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

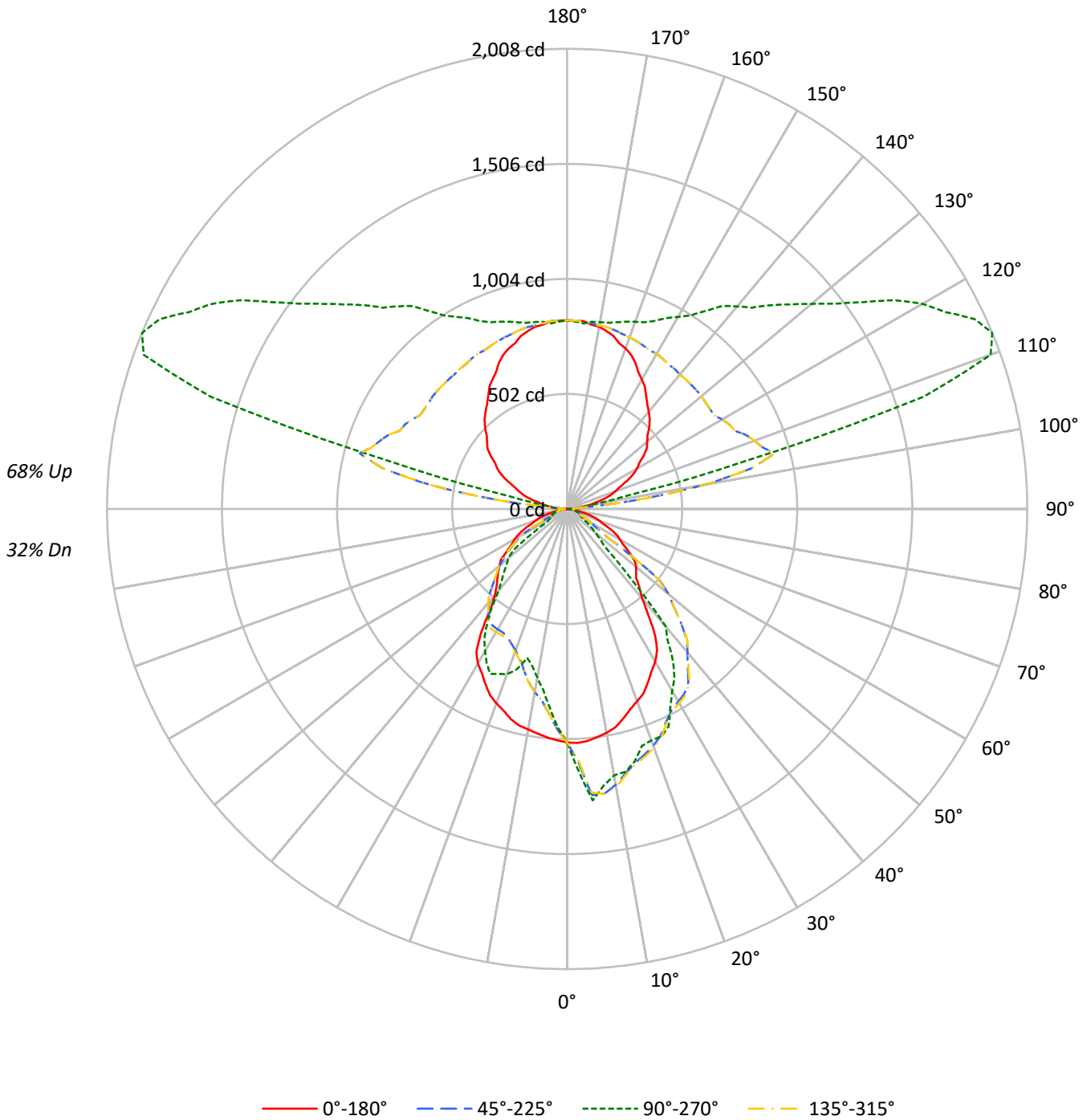
Lumens per Lamp: N/A
Luminaire Lumens: 6521.7 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (A_{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	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°	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	1.5
10°-20°	269.2	4.1
20°-30°	402.7	6.2
30°-40°	458.0	7.0
40°-50°	391.7	6.0
50°-60°	264.2	4.1
60°-70°	136.3	2.1
70°-80°	61.6	0.9
80°-90°	20.2	0.3
90°-100°	101.2	1.6
100°-110°	720.8	11.1
110°-120°	978.6	15.0
120°-130°	796.5	12.2
130°-140°	640.6	9.8
140°-150°	505.0	7.7
150°-160°	369.3	5.7
160°-170°	229.4	3.5
170°-180°	78.2	1.2
0°-30°	770.2	11.8
0°-40°	1228.2	18.8
0°-60°	1884.1	28.9
0°-90°	2102.2	32.2
90°-120°	1800.6	27.6
90°-150°	3742.6	57.4
90°-180°	4419.0	67.8
0°-180°	6521.7	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	16	0	16	0	2
95°	41	57	41	57	41	46
105°	160	792	160	792	160	169
115°	285	1961	285	1961	285	283
125°	409	1573	409	1573	409	363
135°	507	1257	507	1257	507	390
145°	600	1056	600	1056	600	377
155°	704	906	704	906	704	323
165°	781	843	781	843	781	219
175°	823	812	823	812	823	78
180°	823	823	823	823	823	



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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	8.4	8.7	8.1	8.1	8.1	7.9	7.6	4.1	9.2	9.5
90°	0.0	5.1	10.3	15.5	15.5	15.5	10.3	5.1	0.0	5.1	10.3
92.5°	12.4	17.5	22.8	32.2	36.2	32.2	22.8	17.5	12.4	17.5	22.8
95°	41.4	76.8	41.4	46.8	56.9	46.8	41.4	76.8	41.4	76.8	41.4
97.5°	73.5	147.3	304.3	89.8	77.6	89.8	304.3	147.3	73.5	147.3	304.3
100°	98.3	184.3	610.6	179.7	119.0	179.7	610.6	184.3	98.3	184.3	610.6
102.5°	123.2	213.2	825.8	474.3	259.8	474.3	825.8	213.2	123.2	213.2	825.8
105°	160.4	246.4	936.6	1196.4	791.7	1196.4	936.6	246.4	160.4	246.4	936.6
107.5°	197.7	262.4	894.1	1741.3	1631.0	1741.3	894.1	262.4	197.7	262.4	894.1
110°	222.5	283.2	869.3	1829.7	1966.3	1829.7	869.3	283.2	222.5	283.2	869.3



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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°	247.3	308.0	844.5	1778.0	2007.7	1778.0	844.5	308.0	247.3	308.0	844.5
115°	284.6	345.3	807.2	1677.8	1961.1	1677.8	807.2	345.3	284.6	345.3	807.2
117.5°	322.9	382.6	797.9	1569.3	1860.7	1569.3	797.9	382.6	322.9	382.6	797.9
120°	351.9	407.5	781.3	1486.8	1790.3	1486.8	781.3	407.5	351.9	407.5	781.3
122.5°	372.6	432.3	760.6	1415.9	1695.1	1415.9	760.6	432.3	372.6	432.3	760.6
125°	408.8	464.4	760.6	1330.2	1573.0	1330.2	760.6	464.4	408.8	464.4	760.6
127.5°	438.8	495.5	761.7	1230.8	1470.6	1230.8	761.7	495.5	438.8	495.5	761.7
130°	455.3	516.1	765.8	1164.2	1391.9	1164.2	765.8	516.1	455.3	516.1	765.8
132.5°	476.0	536.8	765.8	1134.3	1321.5	1134.3	765.8	536.8	476.0	536.8	765.8
135°	507.1	562.7	765.8	1095.5	1257.4	1095.5	765.8	562.7	507.1	562.7	765.8
137.5°	533.0	592.7	765.8	1052.5	1191.1	1052.5	765.8	592.7	533.0	592.7	765.8
140°	553.7	609.3	765.8	1027.4	1153.9	1027.4	765.8	609.3	553.7	609.3	765.8
142.5°	574.4	626.0	770.0	998.2	1116.6	998.2	770.0	626.0	574.4	626.0	770.0
145°	600.2	650.8	771.0	954.4	1055.6	954.4	771.0	650.8	600.2	650.8	771.0
147.5°	631.3	675.8	777.2	922.8	1000.7	922.8	777.2	675.8	631.3	675.8	777.2
150°	652.0	692.5	781.3	901.8	967.6	901.8	781.3	692.5	652.0	692.5	781.3
152.5°	672.7	709.1	781.3	885.0	938.6	885.0	781.3	709.1	672.7	709.1	781.3
155°	703.7	729.0	786.5	865.0	905.5	865.0	786.5	729.0	703.7	729.0	786.5
157.5°	728.6	752.8	792.7	852.4	881.7	852.4	792.7	752.8	728.6	752.8	792.7
160°	745.1	765.4	796.9	844.0	869.3	844.0	796.9	765.4	745.1	765.4	796.9
162.5°	757.5	777.8	801.0	839.7	856.9	839.7	801.0	777.8	757.5	777.8	801.0
165°	781.3	791.5	807.2	828.3	843.4	828.3	807.2	791.5	781.3	791.5	807.2
167.5°	794.8	803.9	812.4	822.9	832.0	822.9	812.4	803.9	794.8	803.9	812.4
170°	807.2	812.3	812.4	822.8	827.9	822.8	812.4	812.3	807.2	812.3	812.4
172.5°	811.3	820.5	816.5	818.7	823.8	818.7	816.5	820.5	811.3	820.5	816.5
175°	822.7	827.8	822.7	817.4	812.4	817.4	822.7	827.8	822.7	827.8	822.7
177.5°	822.7	826.8	822.7	822.6	818.6	822.6	822.7	826.8	822.7	826.8	822.7
180°	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7



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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°	9.7	8.9	10.5	11.2	10.0	5.0
90°	15.5	15.5	15.5	10.3	5.1	0.0
92.5°	32.2	36.2	32.2	22.8	17.5	12.4
95°	46.8	56.9	46.8	41.4	76.8	41.4
97.5°	89.8	77.6	89.8	304.3	147.3	73.5
100°	179.7	119.0	179.7	610.6	184.3	98.3
102.5°	474.3	259.8	474.3	825.8	213.2	123.2
105°	1196.4	791.7	1196.4	936.6	246.4	160.4
107.5°	1741.3	1631.0	1741.3	894.1	262.4	197.7
110°	1829.7	1966.3	1829.7	869.3	283.2	222.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1778.0	2007.7	1778.0	844.5	308.0	247.3
115°	1677.8	1961.1	1677.8	807.2	345.3	284.6
117.5°	1569.3	1860.7	1569.3	797.9	382.6	322.9
120°	1486.8	1790.3	1486.8	781.3	407.5	351.9
122.5°	1415.9	1695.1	1415.9	760.6	432.3	372.6
125°	1330.2	1573.0	1330.2	760.6	464.4	408.8
127.5°	1230.8	1470.6	1230.8	761.7	495.5	438.8
130°	1164.2	1391.9	1164.2	765.8	516.1	455.3
132.5°	1134.3	1321.5	1134.3	765.8	536.8	476.0
135°	1095.5	1257.4	1095.5	765.8	562.7	507.1
137.5°	1052.5	1191.1	1052.5	765.8	592.7	533.0
140°	1027.4	1153.9	1027.4	765.8	609.3	553.7
142.5°	998.2	1116.6	998.2	770.0	626.0	574.4
145°	954.4	1055.6	954.4	771.0	650.8	600.2
147.5°	922.8	1000.7	922.8	777.2	675.8	631.3
150°	901.8	967.6	901.8	781.3	692.5	652.0
152.5°	885.0	938.6	885.0	781.3	709.1	672.7
155°	865.0	905.5	865.0	786.5	729.0	703.7
157.5°	852.4	881.7	852.4	792.7	752.8	728.6
160°	844.0	869.3	844.0	796.9	765.4	745.1
162.5°	839.7	856.9	839.7	801.0	777.8	757.5
165°	828.3	843.4	828.3	807.2	791.5	781.3
167.5°	822.9	832.0	822.9	812.4	803.9	794.8
170°	822.8	827.9	822.8	812.4	812.3	807.2
172.5°	818.7	823.8	818.7	816.5	820.5	811.3
175°	817.4	812.4	817.4	822.7	827.8	822.7
177.5°	822.6	818.6	822.6	822.7	826.8	822.7
180°	822.7	822.7	822.7	822.7	822.7	822.7

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