

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: P621585

Luminaire Tested: VLT-FA-025U-075D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621585
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-075D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

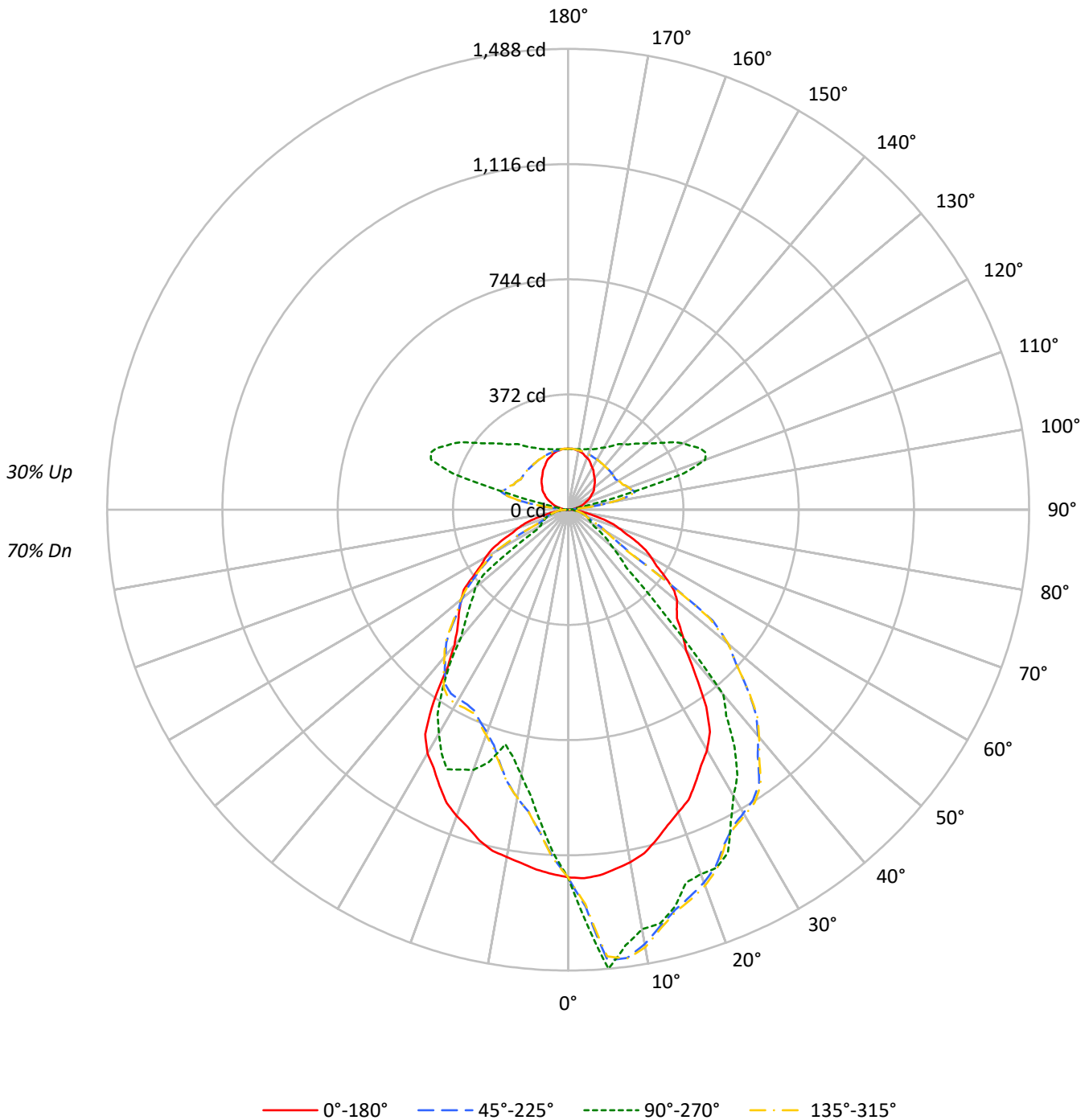
Lumens per Lamp: N/A
Luminaire Lumens: 3506.4 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	103	99	96	93	98	94	91	88	85	82	80	76	74	72	68	66	65	61
2	95	88	82	78	90	84	79	74	76	72	68	68	65	62	61	59	57	53
3	88	79	72	66	83	75	69	64	68	63	59	61	57	54	55	52	50	46
4	81	70	63	57	76	67	60	55	61	55	51	55	51	47	50	46	44	41
5	75	63	56	50	70	60	53	48	55	49	45	50	45	42	45	42	39	36
6	69	57	49	44	65	55	48	42	50	44	40	46	41	37	42	38	35	32
7	64	52	44	39	61	50	43	38	46	40	36	42	37	33	38	34	31	29
8	60	48	40	35	57	46	39	34	42	36	32	39	34	30	35	31	28	26
9	56	44	36	31	53	42	35	31	39	33	29	36	31	27	33	29	26	24
10	52	40	33	29	50	39	32	28	36	30	26	33	28	25	30	26	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8518	8518	8518	8518
5°	8533	10716	8403	7307
10°	8420	10022	8297	6344
15°	8191	9868	8217	5822
20°	7940	9562	8032	6824
25°	7697	9666	7783	7324
30°	7424	8845	7525	6914
35°	6802	8199	6632	6199
40°	5543	7296	5351	5045
45°	5037	2709	5085	4595
50°	5123	2063	5028	4367
55°	4834	1601	4668	2614
60°	4453	1230	4419	1455
65°	4101	1272	4019	1538
70°	3649	1343	3548	1597
75°	3114	1406	2981	1641
80°	2347	1446	2194	1698
85°	1589	1293	1391	1589

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9326 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.3
10°-20°	313.7	8.9
20°-30°	469.4	13.4
30°-40°	533.8	15.2
40°-50°	456.5	13.0
50°-60°	307.9	8.8
60°-70°	158.9	4.5
70°-80°	71.7	2.0
80°-90°	21.8	0.6
90°-100°	24.2	0.7
100°-110°	172.6	4.9
110°-120°	234.3	6.7
120°-130°	190.7	5.4
130°-140°	153.4	4.4
140°-150°	120.9	3.4
150°-160°	88.4	2.5
160°-170°	54.9	1.6
170°-180°	18.7	0.5
0°-30°	897.6	25.6
0°-40°	1431.3	40.8
0°-60°	2195.7	62.6
0°-90°	2448.1	69.8
90°-120°	431.2	12.3
90°-150°	896.2	25.6
90°-180°	1058.0	30.2
0°-180°	3506.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1187	1187	1187	1187	1187	
5°	1185	1488	1166	1014	1185	112
15°	1102	1328	1106	784	1102	310
25°	972	1221	983	925	972	447
35°	776	936	757	708	776	475
45°	496	267	501	453	496	394
55°	386	128	373	209	386	344
65°	242	75	237	91	242	239
75°	112	51	108	59	112	120
85°	19	16	17	19	19	25
90°	0	4	0	4	0	1
95°	10	14	10	14	10	11
105°	38	190	38	190	38	40
115°	68	470	68	470	68	68
125°	98	377	98	377	98	87
135°	121	301	121	301	121	93
145°	144	253	144	253	144	90
155°	168	217	168	217	168	77
165°	187	202	187	202	187	53
175°	197	194	197	194	197	19
180°	197	197	197	197	197	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0
2.5°	1190.9	1231.5	1282.7	1317.8	1332.9	1317.8	1274.0	1231.2	1177.4	1161.3	1123.3
5°	1184.6	1309.8	1461.1	1479.4	1487.7	1479.4	1447.9	1302.3	1166.5	1108.6	1045.7
7.5°	1170.1	1389.0	1459.5	1418.6	1418.9	1426.4	1461.6	1382.2	1151.3	1060.4	983.2
10°	1155.6	1433.1	1423.7	1364.8	1375.4	1370.7	1434.6	1424.5	1138.7	1033.6	945.5
12.5°	1136.3	1446.8	1376.4	1357.1	1368.6	1362.0	1383.4	1439.3	1128.1	1014.5	902.0
15°	1102.5	1427.2	1336.8	1328.3	1328.3	1334.2	1342.8	1433.2	1106.1	979.8	848.9
17.5°	1067.7	1387.9	1309.2	1267.4	1262.9	1270.7	1319.1	1398.0	1075.0	941.3	797.5
20°	1039.7	1360.9	1281.2	1232.2	1252.2	1234.5	1292.1	1368.2	1051.8	917.2	765.6
22.5°	1014.6	1327.2	1245.5	1224.6	1251.3	1225.1	1255.4	1334.6	1024.7	890.1	741.4
25°	972.1	1270.8	1191.9	1211.4	1220.8	1211.4	1196.7	1275.8	983.0	855.4	716.1
27.5°	929.8	1211.3	1151.8	1164.9	1136.1	1158.3	1158.3	1211.5	940.0	815.0	708.4
30°	896.0	1169.9	1131.5	1112.4	1067.5	1102.9	1139.9	1170.2	908.1	788.8	706.4
32.5°	851.6	1132.1	1111.2	1045.1	1016.3	1040.4	1120.6	1131.3	858.8	765.1	704.5
35°	776.5	1078.7	1074.7	965.4	935.9	958.3	1083.2	1075.9	757.1	727.6	689.5
37.5°	675.8	1031.1	1004.9	884.8	837.8	878.9	1012.9	1026.0	636.9	693.3	654.5
40°	591.7	999.1	952.8	824.9	778.9	819.0	958.8	996.2	571.2	669.2	615.9
42.5°	544.4	970.6	897.7	761.5	476.5	751.8	903.7	967.0	530.6	638.0	582.0
45°	496.3	919.0	817.5	421.5	266.9	401.5	818.7	906.1	501.1	590.9	530.1
47.5°	475.3	855.5	733.7	253.9	225.3	246.6	733.0	841.6	475.5	543.5	480.6
50°	458.9	815.5	673.8	223.7	184.8	215.5	675.0	802.3	450.4	511.8	446.8
52.5°	431.8	767.6	587.8	185.4	159.6	180.9	573.6	752.6	424.3	477.2	404.3
55°	386.4	675.7	245.1	145.7	128.0	139.8	233.1	653.0	373.1	422.7	355.0
57.5°	338.4	575.2	172.0	113.4	99.3	112.2	170.7	552.2	332.1	358.1	309.6
60°	310.3	507.5	140.1	95.2	85.7	94.0	138.9	487.4	307.9	315.0	268.1
62.5°	282.3	438.9	115.9	83.7	80.9	82.6	115.7	416.8	278.0	278.5	188.9
65°	241.5	332.4	85.7	76.0	74.9	74.9	83.3	320.5	236.7	229.6	108.7
67.5°	200.0	238.7	68.8	70.0	68.8	68.8	67.6	232.0	195.1	183.1	82.1
70°	173.9	183.3	64.0	65.2	64.0	64.0	62.8	178.5	169.1	141.9	77.3
72.5°	148.8	125.2	59.2	59.4	59.2	59.2	58.0	117.5	143.9	99.8	70.5
75°	112.3	62.7	50.7	50.7	50.7	50.7	49.5	60.2	107.5	65.0	60.4
77.5°	78.0	41.4	42.0	41.8	41.8	40.8	40.8	41.1	73.4	44.8	48.8
80°	56.8	34.3	36.2	35.0	35.0	35.0	35.0	33.1	53.1	37.8	41.1
82.5°	40.3	27.3	29.5	28.3	28.3	28.3	28.3	27.0	36.7	30.8	33.3
85°	19.3	18.1	19.3	16.9	15.7	16.9	18.1	18.1	16.9	20.4	21.7
87.5°	5.8	8.9	8.2	6.5	6.5	6.5	7.3	7.9	4.8	9.8	9.2
90°	0.0	1.2	2.5	3.7	3.7	3.7	2.5	1.2	0.0	1.2	2.5
92.5°	3.0	4.2	5.5	7.7	8.7	7.7	5.5	4.2	3.0	4.2	5.5
95°	9.9	18.4	9.9	11.2	13.6	11.2	9.9	18.4	9.9	18.4	9.9
97.5°	17.6	35.3	72.9	21.5	18.6	21.5	72.9	35.3	17.6	35.3	72.9
100°	23.5	44.1	146.2	43.0	28.5	43.0	146.2	44.1	23.5	44.1	146.2
102.5°	29.5	51.1	197.8	113.6	62.2	113.6	197.8	51.1	29.5	51.1	197.8
105°	38.4	59.0	224.3	286.5	189.6	286.5	224.3	59.0	38.4	59.0	224.3
107.5°	47.3	62.8	214.1	417.0	390.5	417.0	214.1	62.8	47.3	62.8	214.1
110°	53.3	67.8	208.2	438.1	470.8	438.1	208.2	67.8	53.3	67.8	208.2



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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°	59.2	73.8	202.2	425.7	480.7	425.7	202.2	73.8	59.2	73.8	202.2
115°	68.1	82.7	193.3	401.8	469.6	401.8	193.3	82.7	68.1	82.7	193.3
117.5°	77.3	91.6	191.1	375.8	445.6	375.8	191.1	91.6	77.3	91.6	191.1
120°	84.3	97.6	187.1	356.0	428.7	356.0	187.1	97.6	84.3	97.6	187.1
122.5°	89.2	103.5	182.1	339.0	405.9	339.0	182.1	103.5	89.2	103.5	182.1
125°	97.9	111.2	182.1	318.5	376.7	318.5	182.1	111.2	97.9	111.2	182.1
127.5°	105.1	118.6	182.4	294.7	352.1	294.7	182.4	118.6	105.1	118.6	182.4
130°	109.0	123.6	183.4	278.8	333.3	278.8	183.4	123.6	109.0	123.6	183.4
132.5°	114.0	128.5	183.4	271.6	316.4	271.6	183.4	128.5	114.0	128.5	183.4
135°	121.4	134.8	183.4	262.3	301.1	262.3	183.4	134.8	121.4	134.8	183.4
137.5°	127.6	141.9	183.4	252.0	285.2	252.0	183.4	141.9	127.6	141.9	183.4
140°	132.6	145.9	183.4	246.0	276.3	246.0	183.4	145.9	132.6	145.9	183.4
142.5°	137.5	149.9	184.4	239.0	267.4	239.0	184.4	149.9	137.5	149.9	184.4
145°	143.7	155.8	184.6	228.5	252.8	228.5	184.6	155.8	143.7	155.8	184.6
147.5°	151.2	161.8	186.1	221.0	239.6	221.0	186.1	161.8	151.2	161.8	186.1
150°	156.1	165.8	187.1	216.0	231.7	216.0	187.1	165.8	156.1	165.8	187.1
152.5°	161.1	169.8	187.1	211.9	224.8	211.9	187.1	169.8	161.1	169.8	187.1
155°	168.5	174.6	188.3	207.1	216.8	207.1	188.3	174.6	168.5	174.6	188.3
157.5°	174.5	180.3	189.8	204.1	211.1	204.1	189.8	180.3	174.5	180.3	189.8
160°	178.4	183.3	190.8	202.1	208.2	202.1	190.8	183.3	178.4	183.3	190.8
162.5°	181.4	186.2	191.8	201.1	205.2	201.1	191.8	186.2	181.4	186.2	191.8
165°	187.1	189.5	193.3	198.3	202.0	198.3	193.3	189.5	187.1	189.5	193.3
167.5°	190.3	192.5	194.5	197.1	199.2	197.1	194.5	192.5	190.3	192.5	194.5
170°	193.3	194.5	194.5	197.0	198.2	197.0	194.5	194.5	193.3	194.5	194.5
172.5°	194.3	196.5	195.5	196.0	197.3	196.0	195.5	196.5	194.3	196.5	195.5
175°	197.0	198.2	197.0	195.7	194.5	195.7	197.0	198.2	197.0	198.2	197.0
177.5°	197.0	198.0	197.0	197.0	196.0	197.0	197.0	198.0	197.0	198.0	197.0
180°	197.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0
2.5°	1109.7	1108.8	1110.7	1127.1	1160.7	1190.9
5°	1010.8	1014.4	1017.9	1045.7	1104.3	1184.6
7.5°	934.8	929.6	937.6	983.0	1054.9	1170.1
10°	882.5	870.7	882.5	944.3	1028.1	1155.6
12.5°	833.1	818.5	836.9	904.7	1006.0	1136.3
15°	769.5	783.7	775.4	851.3	972.6	1102.5
17.5°	784.6	855.9	799.7	805.0	939.5	1067.7
20°	820.4	893.6	844.0	774.0	918.1	1039.7
22.5°	852.8	908.1	863.2	748.0	896.8	1014.6
25°	877.8	925.0	875.4	724.5	865.8	972.1
27.5°	879.0	885.6	879.5	722.6	827.6	929.8
30°	862.8	834.4	860.4	724.5	800.4	896.0
32.5°	816.3	784.2	806.4	720.7	772.9	851.6
35°	750.1	707.6	738.3	700.4	730.4	776.5
37.5°	680.3	626.5	669.0	660.3	694.2	675.8
40°	633.0	538.6	623.6	620.7	674.4	591.7
42.5°	572.5	492.2	564.0	588.8	652.5	544.4
45°	462.3	452.8	457.6	534.9	606.1	496.3
47.5°	422.7	416.4	420.4	485.9	553.7	475.3
50°	399.5	391.2	397.2	454.0	520.3	458.9
52.5°	367.3	344.9	365.0	410.6	485.7	431.8
55°	276.2	208.9	275.0	361.1	433.6	386.4
57.5°	162.1	120.8	158.5	314.2	367.4	338.4
60°	109.7	101.4	110.9	276.5	323.3	310.3
62.5°	100.2	97.6	100.4	192.5	284.0	282.3
65°	91.7	90.6	91.7	111.1	234.4	241.5
67.5°	83.1	81.9	84.0	85.3	185.1	200.0
70°	77.3	76.1	77.3	78.5	142.0	173.9
72.5°	70.5	69.3	70.5	71.7	99.9	148.8
75°	60.4	59.2	60.4	61.6	66.3	112.3
77.5°	48.8	48.8	50.0	50.0	46.4	78.0
80°	41.1	41.1	42.2	42.3	40.2	56.8
82.5°	33.3	32.4	34.5	35.5	33.2	40.3
85°	20.5	19.3	21.7	22.9	21.7	19.3
87.5°	8.5	7.5	9.4	11.1	10.8	5.8
90°	3.7	3.7	3.7	2.5	1.2	0.0
92.5°	7.7	8.7	7.7	5.5	4.2	3.0
95°	11.2	13.6	11.2	9.9	18.4	9.9
97.5°	21.5	18.6	21.5	72.9	35.3	17.6
100°	43.0	28.5	43.0	146.2	44.1	23.5
102.5°	113.6	62.2	113.6	197.8	51.1	29.5
105°	286.5	189.6	286.5	224.3	59.0	38.4
107.5°	417.0	390.5	417.0	214.1	62.8	47.3
110°	438.1	470.8	438.1	208.2	67.8	53.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	425.7	480.7	425.7	202.2	73.8	59.2
115°	401.8	469.6	401.8	193.3	82.7	68.1
117.5°	375.8	445.6	375.8	191.1	91.6	77.3
120°	356.0	428.7	356.0	187.1	97.6	84.3
122.5°	339.0	405.9	339.0	182.1	103.5	89.2
125°	318.5	376.7	318.5	182.1	111.2	97.9
127.5°	294.7	352.1	294.7	182.4	118.6	105.1
130°	278.8	333.3	278.8	183.4	123.6	109.0
132.5°	271.6	316.4	271.6	183.4	128.5	114.0
135°	262.3	301.1	262.3	183.4	134.8	121.4
137.5°	252.0	285.2	252.0	183.4	141.9	127.6
140°	246.0	276.3	246.0	183.4	145.9	132.6
142.5°	239.0	267.4	239.0	184.4	149.9	137.5
145°	228.5	252.8	228.5	184.6	155.8	143.7
147.5°	221.0	239.6	221.0	186.1	161.8	151.2
150°	216.0	231.7	216.0	187.1	165.8	156.1
152.5°	211.9	224.8	211.9	187.1	169.8	161.1
155°	207.1	216.8	207.1	188.3	174.6	168.5
157.5°	204.1	211.1	204.1	189.8	180.3	174.5
160°	202.1	208.2	202.1	190.8	183.3	178.4
162.5°	201.1	205.2	201.1	191.8	186.2	181.4
165°	198.3	202.0	198.3	193.3	189.5	187.1
167.5°	197.1	199.2	197.1	194.5	192.5	190.3
170°	197.0	198.2	197.0	194.5	194.5	193.3
172.5°	196.0	197.3	196.0	195.5	196.5	194.3
175°	195.7	194.5	195.7	197.0	198.2	197.0
177.5°	197.0	196.0	197.0	197.0	198.0	197.0
180°	197.0	197.0	197.0	197.0	197.0	197.0

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