

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: P621636

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621636
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-940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

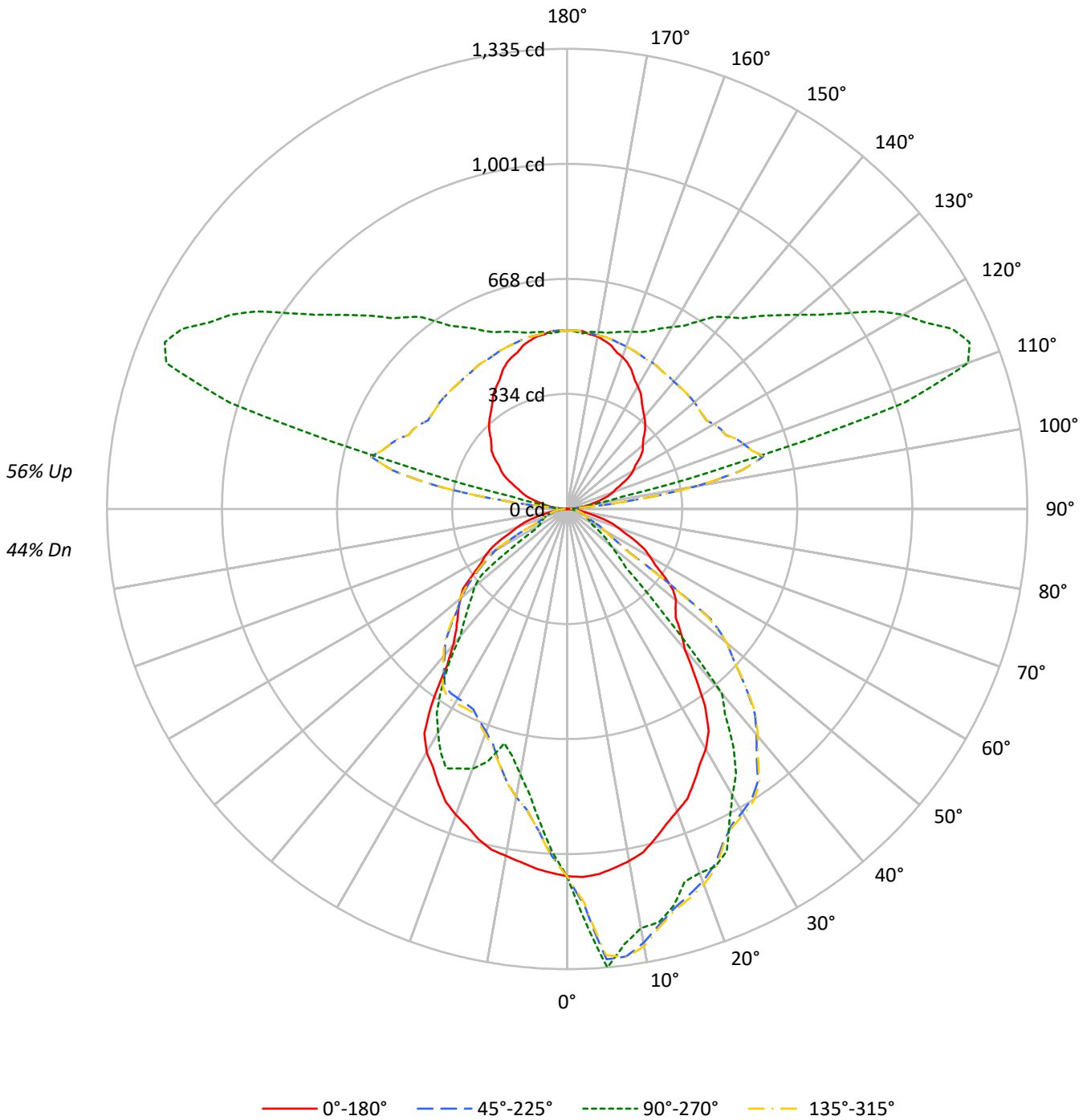
Lumens per Lamp: N/A
Luminaire Lumens: 4979.2 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.4
Input Voltage (V): 120
Input Current (A_{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	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°	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	2.1
10°-20°	281.5	5.7
20°-30°	421.2	8.5
30°-40°	479.0	9.6
40°-50°	409.7	8.2
50°-60°	276.3	5.5
60°-70°	142.6	2.9
70°-80°	64.4	1.3
80°-90°	20.3	0.4
90°-100°	63.7	1.3
100°-110°	453.7	9.1
110°-120°	615.9	12.4
120°-130°	501.3	10.1
130°-140°	403.2	8.1
140°-150°	317.8	6.4
150°-160°	232.4	4.7
160°-170°	144.4	2.9
170°-180°	49.2	1.0
0°-30°	805.5	16.2
0°-40°	1284.5	25.8
0°-60°	1970.5	39.6
0°-90°	2197.8	44.1
90°-120°	1133.2	22.8
90°-150°	2355.5	47.3
90°-180°	2781.0	55.9
0°-180°	4979.2	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	10	0	10	0	2
95°	26	36	26	36	26	29
105°	101	498	101	498	101	106
115°	179	1234	179	1234	179	178
125°	257	990	257	990	257	229
135°	319	791	319	791	319	246
145°	378	664	378	664	378	237
155°	443	570	443	570	443	203
165°	492	531	492	531	492	138
175°	518	511	518	511	518	49
180°	518	518	518	518	518	



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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	8.4	8.2	7.2	7.2	7.2	7.4	7.5	4.3	9.2	9.1
90°	0.0	3.2	6.5	9.8	9.8	9.8	6.5	3.2	0.0	3.2	6.5
92.5°	7.8	11.0	14.3	20.2	22.8	20.2	14.3	11.0	7.8	11.0	14.3
95°	26.1	48.3	26.1	29.5	35.8	29.5	26.1	48.3	26.1	48.3	26.1
97.5°	46.2	92.7	191.5	56.5	48.8	56.5	191.5	92.7	46.2	92.7	191.5
100°	61.9	116.0	384.3	113.1	74.9	113.1	384.3	116.0	61.9	116.0	384.3
102.5°	77.5	134.2	519.7	298.5	163.5	298.5	519.7	134.2	77.5	134.2	519.7
105°	101.0	155.1	589.4	753.0	498.3	753.0	589.4	155.1	101.0	155.1	589.4
107.5°	124.4	165.2	562.7	1095.9	1026.5	1095.9	562.7	165.2	124.4	165.2	562.7
110°	140.0	178.2	547.1	1151.5	1237.5	1151.5	547.1	178.2	140.0	178.2	547.1



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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°	155.7	193.9	531.5	1119.0	1263.5	1119.0	531.5	193.9	155.7	193.9	531.5
115°	179.1	217.3	508.0	1055.9	1234.2	1055.9	508.0	217.3	179.1	217.3	508.0
117.5°	203.2	240.8	502.2	987.6	1171.1	987.6	502.2	240.8	203.2	240.8	502.2
120°	221.4	256.5	491.7	935.7	1126.8	935.7	491.7	256.5	221.4	256.5	491.7
122.5°	234.5	272.0	478.7	891.1	1066.8	891.1	478.7	272.0	234.5	272.0	478.7
125°	257.3	292.3	478.7	837.2	990.0	837.2	478.7	292.3	257.3	292.3	478.7
127.5°	276.2	311.8	479.4	774.6	925.5	774.6	479.4	311.8	276.2	311.8	479.4
130°	286.6	324.8	482.0	732.7	876.0	732.7	482.0	324.8	286.6	324.8	482.0
132.5°	299.6	337.8	482.0	713.9	831.7	713.9	482.0	337.8	299.6	337.8	482.0
135°	319.1	354.2	482.0	689.4	791.3	689.4	482.0	354.2	319.1	354.2	482.0
137.5°	335.4	373.0	482.0	662.4	749.7	662.4	482.0	373.0	335.4	373.0	482.0
140°	348.5	383.5	482.0	646.6	726.2	646.6	482.0	383.5	348.5	383.5	482.0
142.5°	361.5	394.0	484.6	628.3	702.8	628.3	484.6	394.0	361.5	394.0	484.6
145°	377.8	409.6	485.2	600.7	664.3	600.7	485.2	409.6	377.8	409.6	485.2
147.5°	397.3	425.3	489.1	580.8	629.8	580.8	489.1	425.3	397.3	425.3	489.1
150°	410.3	435.8	491.7	567.6	609.0	567.6	491.7	435.8	410.3	435.8	491.7
152.5°	423.4	446.3	491.7	557.0	590.7	557.0	491.7	446.3	423.4	446.3	491.7
155°	442.9	458.8	495.0	544.4	569.9	544.4	495.0	458.8	442.9	458.8	495.0
157.5°	458.5	473.8	498.9	536.4	554.9	536.4	498.9	473.8	458.5	473.8	498.9
160°	468.9	481.7	501.5	531.2	547.1	531.2	501.5	481.7	468.9	481.7	501.5
162.5°	476.8	489.5	504.1	528.5	539.3	528.5	504.1	489.5	476.8	489.5	504.1
165°	491.7	498.1	508.0	521.3	530.8	521.3	508.0	498.1	491.7	498.1	508.0
167.5°	500.2	505.9	511.3	517.9	523.7	517.9	511.3	505.9	500.2	505.9	511.3
170°	508.0	511.2	511.3	517.9	521.0	517.9	511.3	511.2	508.0	511.2	511.3
172.5°	510.6	516.4	513.9	515.3	518.4	515.3	513.9	516.4	510.6	516.4	513.9
175°	517.8	521.0	517.8	514.5	511.3	514.5	517.8	521.0	517.8	521.0	517.8
177.5°	517.8	520.3	517.8	517.7	515.2	517.7	517.8	520.3	517.8	520.3	517.8
180°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8



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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°	8.9	8.0	9.7	10.8	10.1	5.2
90°	9.8	9.8	9.8	6.5	3.2	0.0
92.5°	20.2	22.8	20.2	14.3	11.0	7.8
95°	29.5	35.8	29.5	26.1	48.3	26.1
97.5°	56.5	48.8	56.5	191.5	92.7	46.2
100°	113.1	74.9	113.1	384.3	116.0	61.9
102.5°	298.5	163.5	298.5	519.7	134.2	77.5
105°	753.0	498.3	753.0	589.4	155.1	101.0
107.5°	1095.9	1026.5	1095.9	562.7	165.2	124.4
110°	1151.5	1237.5	1151.5	547.1	178.2	140.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1119.0	1263.5	1119.0	531.5	193.9	155.7
115°	1055.9	1234.2	1055.9	508.0	217.3	179.1
117.5°	987.6	1171.1	987.6	502.2	240.8	203.2
120°	935.7	1126.8	935.7	491.7	256.5	221.4
122.5°	891.1	1066.8	891.1	478.7	272.0	234.5
125°	837.2	990.0	837.2	478.7	292.3	257.3
127.5°	774.6	925.5	774.6	479.4	311.8	276.2
130°	732.7	876.0	732.7	482.0	324.8	286.6
132.5°	713.9	831.7	713.9	482.0	337.8	299.6
135°	689.4	791.3	689.4	482.0	354.2	319.1
137.5°	662.4	749.7	662.4	482.0	373.0	335.4
140°	646.6	726.2	646.6	482.0	383.5	348.5
142.5°	628.3	702.8	628.3	484.6	394.0	361.5
145°	600.7	664.3	600.7	485.2	409.6	377.8
147.5°	580.8	629.8	580.8	489.1	425.3	397.3
150°	567.6	609.0	567.6	491.7	435.8	410.3
152.5°	557.0	590.7	557.0	491.7	446.3	423.4
155°	544.4	569.9	544.4	495.0	458.8	442.9
157.5°	536.4	554.9	536.4	498.9	473.8	458.5
160°	531.2	547.1	531.2	501.5	481.7	468.9
162.5°	528.5	539.3	528.5	504.1	489.5	476.8
165°	521.3	530.8	521.3	508.0	498.1	491.7
167.5°	517.9	523.7	517.9	511.3	505.9	500.2
170°	517.9	521.0	517.9	511.3	511.2	508.0
172.5°	515.3	518.4	515.3	513.9	516.4	510.6
175°	514.5	511.3	514.5	517.8	521.0	517.8
177.5°	517.7	515.2	517.7	517.8	520.3	517.8
180°	517.8	517.8	517.8	517.8	517.8	517.8

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