

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: P621588

Luminaire Tested: VLT-FA-025U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621588
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-940-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

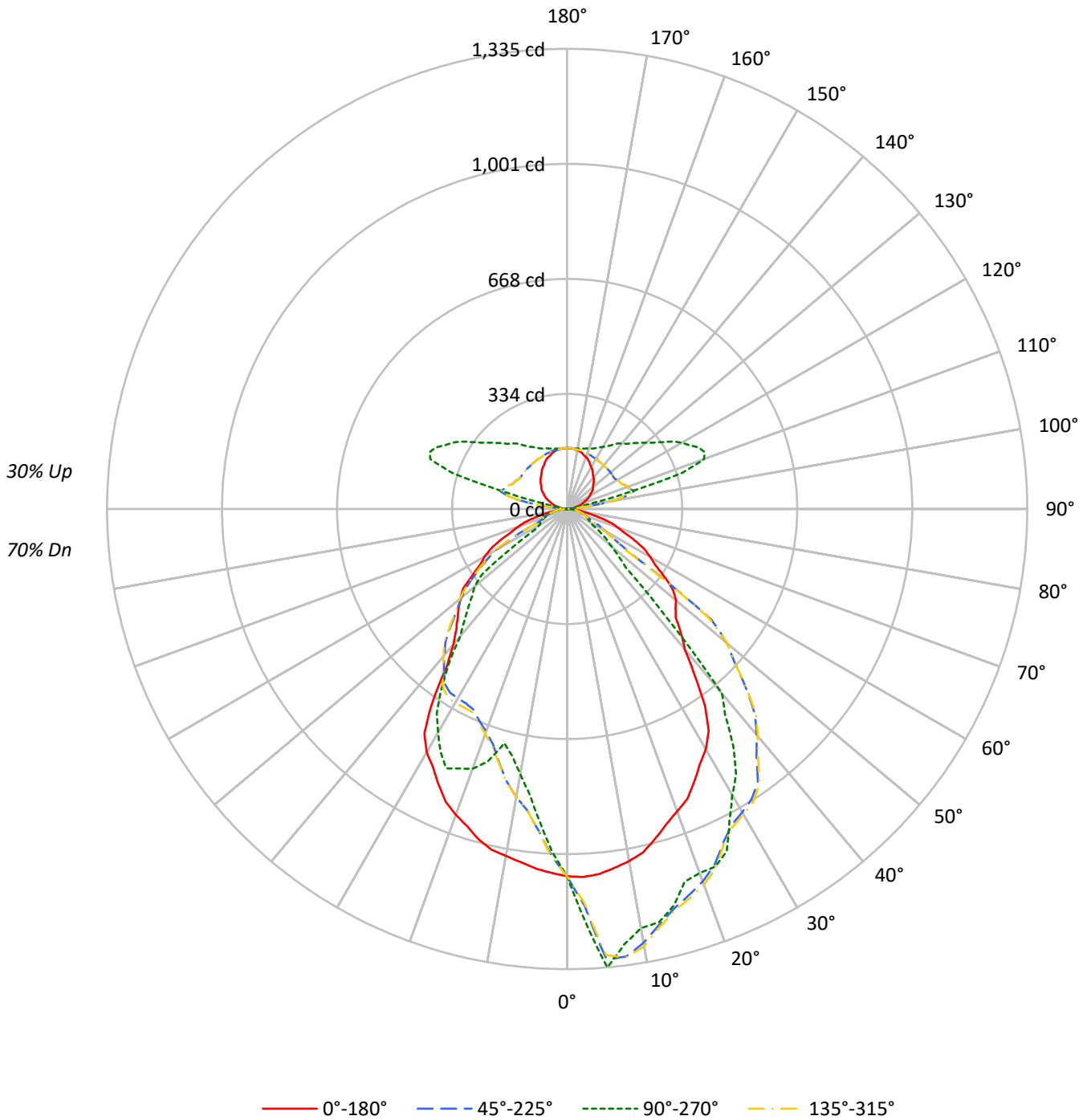
Lumens per Lamp: N/A
Luminaire Lumens: 3146.8 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

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	3.3
10°-20°	281.5	8.9
20°-30°	421.2	13.4
30°-40°	479.0	15.2
40°-50°	409.7	13.0
50°-60°	276.3	8.8
60°-70°	142.6	4.5
70°-80°	64.4	2.0
80°-90°	19.6	0.6
90°-100°	21.7	0.7
100°-110°	154.9	4.9
110°-120°	210.3	6.7
120°-130°	171.2	5.4
130°-140°	137.7	4.4
140°-150°	108.5	3.4
150°-160°	79.4	2.5
160°-170°	49.3	1.6
170°-180°	16.8	0.5
0°-30°	805.5	25.6
0°-40°	1284.5	40.8
0°-60°	1970.5	62.6
0°-90°	2197.0	69.8
90°-120°	386.9	12.3
90°-150°	804.3	25.6
90°-180°	950.0	30.2
0°-180°	3146.8	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	3	0	3	0	1
95°	9	12	9	12	9	10
105°	34	170	34	170	34	36
115°	61	421	61	421	61	61
125°	88	338	88	338	88	78
135°	109	270	109	270	109	84
145°	129	227	129	227	129	81
155°	151	195	151	195	151	69
165°	168	181	168	181	168	47
175°	177	175	177	175	177	17
180°	177	177	177	177	177	



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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	8.0	7.4	5.9	5.9	5.9	6.5	7.1	4.3	8.8	8.2
90°	0.0	1.1	2.2	3.3	3.3	3.3	2.2	1.1	0.0	1.1	2.2
92.5°	2.7	3.8	4.9	6.9	7.8	6.9	4.9	3.8	2.7	3.8	4.9
95°	8.9	16.5	8.9	10.1	12.2	10.1	8.9	16.5	8.9	16.5	8.9
97.5°	15.8	31.7	65.4	19.3	16.7	19.3	65.4	31.7	15.8	31.7	65.4
100°	21.1	39.6	131.2	38.6	25.6	38.6	131.2	39.6	21.1	39.6	131.2
102.5°	26.5	45.8	177.5	101.9	55.8	101.9	177.5	45.8	26.5	45.8	177.5
105°	34.5	53.0	201.3	257.1	170.1	257.1	201.3	53.0	34.5	53.0	201.3
107.5°	42.5	56.4	192.1	374.2	350.5	374.2	192.1	56.4	42.5	56.4	192.1
110°	47.8	60.9	186.8	393.2	422.5	393.2	186.8	60.9	47.8	60.9	186.8



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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°	53.2	66.2	181.5	382.1	431.4	382.1	181.5	66.2	53.2	66.2	181.5
115°	61.2	74.2	173.5	360.5	421.4	360.5	173.5	74.2	61.2	74.2	173.5
117.5°	69.4	82.2	171.5	337.2	399.9	337.2	171.5	82.2	69.4	82.2	171.5
120°	75.6	87.6	167.9	319.5	384.7	319.5	167.9	87.6	75.6	87.6	167.9
122.5°	80.1	92.9	163.5	304.3	364.3	304.3	163.5	92.9	80.1	92.9	163.5
125°	87.8	99.8	163.5	285.8	338.0	285.8	163.5	99.8	87.8	99.8	163.5
127.5°	94.3	106.5	163.7	264.5	316.0	264.5	163.7	106.5	94.3	106.5	163.7
130°	97.8	110.9	164.6	250.2	299.1	250.2	164.6	110.9	97.8	110.9	164.6
132.5°	102.3	115.3	164.6	243.8	284.0	243.8	164.6	115.3	102.3	115.3	164.6
135°	109.0	120.9	164.6	235.4	270.2	235.4	164.6	120.9	109.0	120.9	164.6
137.5°	114.5	127.4	164.6	226.2	256.0	226.2	164.6	127.4	114.5	127.4	164.6
140°	119.0	130.9	164.6	220.8	248.0	220.8	164.6	130.9	119.0	130.9	164.6
142.5°	123.4	134.5	165.5	214.5	240.0	214.5	165.5	134.5	123.4	134.5	165.5
145°	129.0	139.9	165.7	205.1	226.8	205.1	165.7	139.9	129.0	139.9	165.7
147.5°	135.7	145.2	167.0	198.3	215.0	198.3	167.0	145.2	135.7	145.2	167.0
150°	140.1	148.8	167.9	193.8	207.9	193.8	167.9	148.8	140.1	148.8	167.9
152.5°	144.6	152.4	167.9	190.2	201.7	190.2	167.9	152.4	144.6	152.4	167.9
155°	151.2	156.7	169.0	185.9	194.6	185.9	169.0	156.7	151.2	156.7	169.0
157.5°	156.6	161.8	170.3	183.2	189.5	183.2	170.3	161.8	156.6	161.8	170.3
160°	160.1	164.5	171.2	181.4	186.8	181.4	171.2	164.5	160.1	164.5	171.2
162.5°	162.8	167.1	172.1	180.4	184.1	180.4	172.1	167.1	162.8	167.1	172.1
165°	167.9	170.1	173.5	178.0	181.2	178.0	173.5	170.1	167.9	170.1	173.5
167.5°	170.8	172.7	174.6	176.8	178.8	176.8	174.6	172.7	170.8	172.7	174.6
170°	173.5	174.5	174.6	176.8	177.9	176.8	174.6	174.5	173.5	174.5	174.6
172.5°	174.4	176.3	175.5	175.9	177.0	175.9	175.5	176.3	174.4	176.3	175.5
175°	176.8	177.9	176.8	175.7	174.6	175.7	176.8	177.9	176.8	177.9	176.8
177.5°	176.8	177.7	176.8	176.8	175.9	176.8	176.8	177.7	176.8	177.7	176.8
180°	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8



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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°	7.6	6.7	8.4	10.0	9.7	5.2
90°	3.3	3.3	3.3	2.2	1.1	0.0
92.5°	6.9	7.8	6.9	4.9	3.8	2.7
95°	10.1	12.2	10.1	8.9	16.5	8.9
97.5°	19.3	16.7	19.3	65.4	31.7	15.8
100°	38.6	25.6	38.6	131.2	39.6	21.1
102.5°	101.9	55.8	101.9	177.5	45.8	26.5
105°	257.1	170.1	257.1	201.3	53.0	34.5
107.5°	374.2	350.5	374.2	192.1	56.4	42.5
110°	393.2	422.5	393.2	186.8	60.9	47.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	382.1	431.4	382.1	181.5	66.2	53.2
115°	360.5	421.4	360.5	173.5	74.2	61.2
117.5°	337.2	399.9	337.2	171.5	82.2	69.4
120°	319.5	384.7	319.5	167.9	87.6	75.6
122.5°	304.3	364.3	304.3	163.5	92.9	80.1
125°	285.8	338.0	285.8	163.5	99.8	87.8
127.5°	264.5	316.0	264.5	163.7	106.5	94.3
130°	250.2	299.1	250.2	164.6	110.9	97.8
132.5°	243.8	284.0	243.8	164.6	115.3	102.3
135°	235.4	270.2	235.4	164.6	120.9	109.0
137.5°	226.2	256.0	226.2	164.6	127.4	114.5
140°	220.8	248.0	220.8	164.6	130.9	119.0
142.5°	214.5	240.0	214.5	165.5	134.5	123.4
145°	205.1	226.8	205.1	165.7	139.9	129.0
147.5°	198.3	215.0	198.3	167.0	145.2	135.7
150°	193.8	207.9	193.8	167.9	148.8	140.1
152.5°	190.2	201.7	190.2	167.9	152.4	144.6
155°	185.9	194.6	185.9	169.0	156.7	151.2
157.5°	183.2	189.5	183.2	170.3	161.8	156.6
160°	181.4	186.8	181.4	171.2	164.5	160.1
162.5°	180.4	184.1	180.4	172.1	167.1	162.8
165°	178.0	181.2	178.0	173.5	170.1	167.9
167.5°	176.8	178.8	176.8	174.6	172.7	170.8
170°	176.8	177.9	176.8	174.6	174.5	173.5
172.5°	175.9	177.0	175.9	175.5	176.3	174.4
175°	175.7	174.6	175.7	176.8	177.9	176.8
177.5°	176.8	175.9	176.8	176.8	177.7	176.8
180°	176.8	176.8	176.8	176.8	176.8	176.8

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