

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P621730

Luminaire Tested: VLT-FA-150U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621730
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-150U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

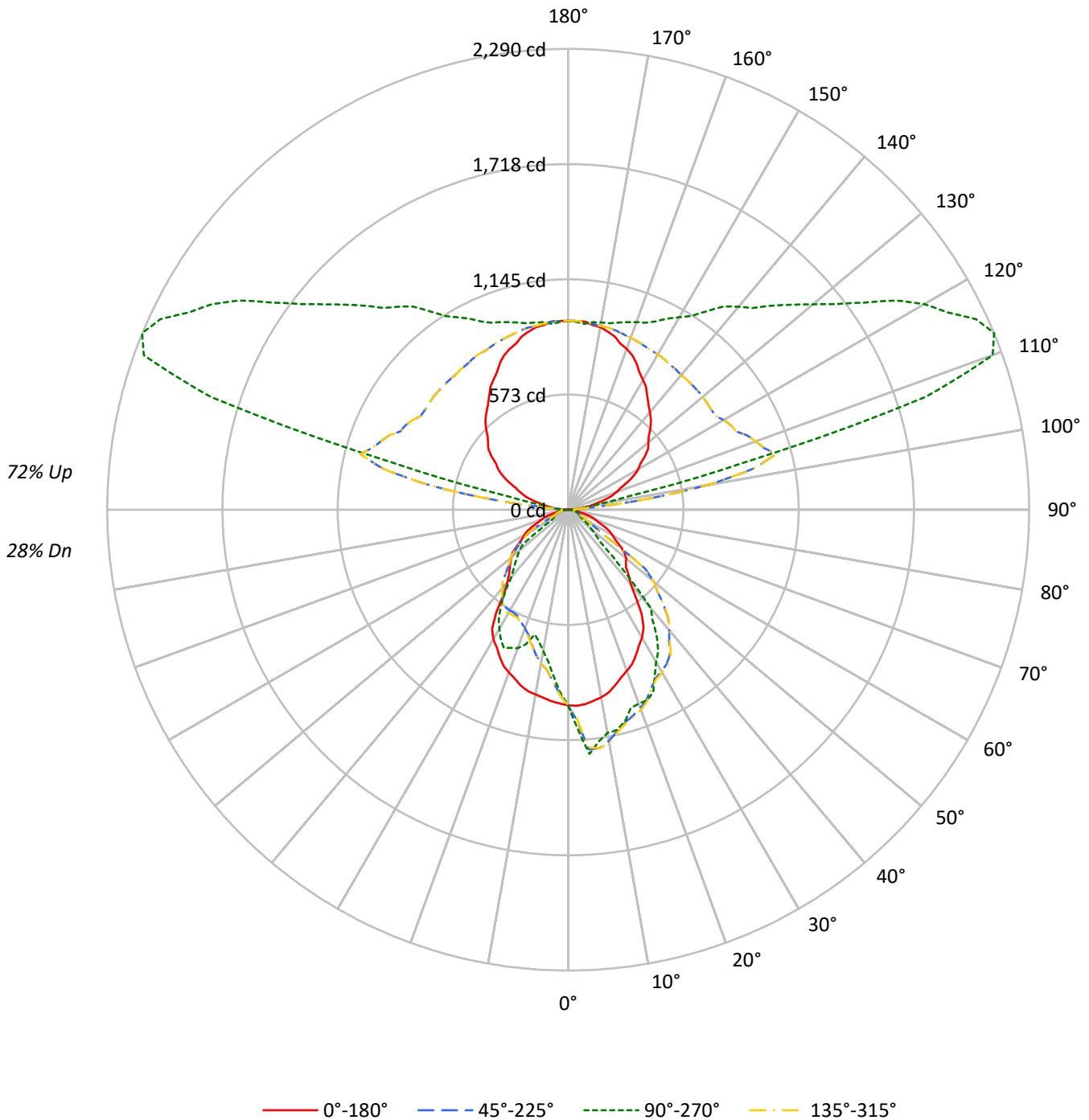
Lumens per Lamp: N/A
Luminaire Lumens: 7047.9 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 70.2
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	93	89	86	83	84	80	77	75	63	61	59	47	46	45	33	32	32	25				
2	85	79	73	68	76	71	66	62	56	53	50	42	40	38	29	28	27	22				
3	78	69	63	57	70	63	57	52	50	46	42	38	35	33	26	25	24	19				
4	72	62	54	49	64	56	49	45	44	40	36	34	31	28	24	22	21	17				
5	66	55	47	42	59	50	43	38	40	35	32	30	27	25	22	20	18	15				
6	61	49	42	36	54	45	38	33	36	31	28	28	24	22	20	18	16	13				
7	56	44	37	32	50	40	34	29	32	28	24	25	22	19	18	16	15	12				
8	52	40	33	28	47	37	30	26	30	25	22	23	20	17	17	15	13	11				
9	48	37	30	25	43	33	27	23	27	22	19	21	18	16	15	13	12	10				
10	45	34	27	22	40	31	25	21	25	20	17	19	16	14	14	12	11	9				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6974	6974	6974	6974
5°	6987	8774	6880	5982
10°	6895	8206	6794	5195
15°	6706	8080	6729	4767
20°	6501	7830	6577	5588
25°	6302	7915	6372	5997
30°	6079	7242	6161	5661
35°	5570	6713	5430	5076
40°	4539	5974	4381	4131
45°	4124	2217	4164	3763
50°	4194	1689	4117	3576
55°	3958	1311	3822	2139
60°	3647	1008	3618	1193
65°	3357	1041	3291	1260
70°	2988	1099	2904	1307
75°	2551	1151	2440	1342
80°	1922	1186	1798	1389
85°	1301	1062	1136	1301

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7637 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	1.3
10°-20°	256.8	3.6
20°-30°	384.3	5.5
30°-40°	437.1	6.2
40°-50°	373.8	5.3
50°-60°	252.1	3.6
60°-70°	130.1	1.8
70°-80°	58.7	0.8
80°-90°	19.6	0.3
90°-100°	115.4	1.6
100°-110°	822.3	11.7
110°-120°	1116.3	15.8
120°-130°	908.6	12.9
130°-140°	730.8	10.4
140°-150°	576.1	8.2
150°-160°	421.3	6.0
160°-170°	261.7	3.7
170°-180°	89.2	1.3
0°-30°	734.9	10.4
0°-40°	1172.0	16.6
0°-60°	1797.8	25.5
0°-90°	2006.3	28.5
90°-120°	2054.0	29.1
90°-150°	4269.5	60.6
90°-180°	5042.0	71.5
0°-180°	7047.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	970	1218	955	830	970	92
15°	903	1088	906	642	903	254
25°	796	1000	805	757	796	366
35°	636	766	620	579	636	389
45°	406	218	410	371	406	322
55°	316	105	306	171	316	282
65°	198	61	194	74	198	195
75°	92	42	88	48	92	98
85°	16	13	14	16	16	20
90°	0	18	0	18	0	3
95°	47	65	47	65	47	53
105°	183	903	183	903	183	193
115°	325	2237	325	2237	325	322
125°	466	1794	466	1794	466	414
135°	578	1434	578	1434	578	445
145°	685	1204	685	1204	685	430
155°	803	1033	803	1033	803	369
165°	891	962	891	962	891	250
175°	939	927	939	927	939	89
180°	939	939	939	939	939	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	975.1	1008.3	1050.2	1079.0	1091.4	1079.0	1043.1	1008.1	964.0	950.9	919.7
5°	969.9	1072.4	1196.4	1211.3	1218.1	1211.3	1185.5	1066.3	955.1	907.7	856.2
7.5°	958.1	1137.3	1195.0	1161.6	1161.8	1167.9	1196.8	1131.7	942.7	868.2	805.0
10°	946.2	1173.4	1165.7	1117.5	1126.2	1122.3	1174.6	1166.3	932.4	846.3	774.2
12.5°	930.4	1184.6	1127.0	1111.1	1120.6	1115.2	1132.7	1178.5	923.7	830.7	738.6
15°	902.7	1168.6	1094.5	1087.6	1087.6	1092.4	1099.5	1173.5	905.7	802.2	695.1
17.5°	874.2	1136.4	1072.0	1037.7	1034.0	1040.4	1080.1	1144.7	880.2	770.7	653.0
20°	851.3	1114.3	1049.0	1008.9	1025.3	1010.8	1057.9	1120.3	861.2	751.0	626.9
22.5°	830.7	1086.7	1019.8	1002.7	1024.5	1003.1	1027.9	1092.7	839.0	728.8	607.1
25°	795.9	1040.5	975.9	991.9	999.6	991.9	979.8	1044.6	804.8	700.4	586.3
27.5°	761.3	991.8	943.0	953.8	930.2	948.4	948.4	992.0	769.6	667.3	580.0
30°	733.6	957.9	926.4	910.8	874.0	903.0	933.4	958.1	743.5	645.9	578.4
32.5°	697.3	927.0	909.8	855.7	832.1	851.8	917.5	926.3	703.2	626.4	576.8
35°	635.8	883.2	880.0	790.4	766.3	784.6	886.9	881.0	619.9	595.8	564.6
37.5°	553.3	844.3	822.8	724.5	686.0	719.6	829.3	840.1	521.5	567.7	535.9
40°	484.5	818.0	780.1	675.4	637.7	670.6	785.0	815.7	467.7	547.9	504.3
42.5°	445.7	794.7	735.0	623.5	390.2	615.6	740.0	791.8	434.4	522.4	476.6
45°	406.4	752.5	669.4	345.2	218.5	328.7	670.4	741.9	410.3	483.8	434.1
47.5°	389.2	700.5	600.8	207.9	184.5	201.9	600.2	689.1	389.4	445.0	393.5
50°	375.7	667.7	551.7	183.2	151.3	176.4	552.7	656.9	368.8	419.1	365.8
52.5°	353.6	628.5	481.3	151.8	130.7	148.1	469.6	616.2	347.4	390.7	331.0
55°	316.4	553.2	200.7	119.3	104.8	114.5	190.8	534.6	305.5	346.1	290.7
57.5°	277.0	471.0	140.8	92.9	81.3	91.9	139.8	452.1	271.9	293.2	253.5
60°	254.1	415.6	114.7	77.9	70.2	77.0	113.7	399.1	252.1	257.9	219.5
62.5°	231.2	359.4	94.9	68.6	66.2	67.6	94.7	341.3	227.6	228.0	154.6
65°	197.7	272.2	70.2	62.3	61.3	61.3	68.2	262.4	193.8	188.0	89.0
67.5°	163.7	195.4	56.4	57.3	56.4	56.4	55.4	189.9	159.8	149.9	67.2
70°	142.4	150.1	52.4	53.4	52.4	52.4	51.4	146.2	138.4	116.2	63.3
72.5°	121.8	102.5	48.4	48.6	48.4	48.4	47.5	96.2	117.9	81.7	57.7
75°	92.0	51.3	41.5	41.5	41.5	41.5	40.5	49.3	88.0	53.2	49.4
77.5°	63.9	33.9	34.4	34.2	34.2	33.4	33.4	33.6	60.1	36.7	39.9
80°	46.5	28.1	29.7	28.7	28.7	28.7	28.7	27.1	43.5	30.9	33.6
82.5°	33.0	22.4	24.1	23.1	23.1	23.1	23.1	22.1	30.1	25.2	27.3
85°	15.8	14.9	15.8	13.8	12.9	13.8	14.8	14.8	13.8	16.7	17.8
87.5°	4.7	8.2	8.7	8.3	8.3	8.3	7.9	7.4	4.0	9.0	9.5
90°	0.0	5.8	11.8	17.7	17.7	17.7	11.8	5.8	0.0	5.8	11.8
92.5°	14.2	19.9	26.0	36.7	41.3	36.7	26.0	19.9	14.2	19.9	26.0
95°	47.2	87.6	47.2	53.4	64.9	53.4	47.2	87.6	47.2	87.6	47.2
97.5°	83.8	168.1	347.1	102.4	88.5	102.4	347.1	168.1	83.8	168.1	347.1
100°	112.2	210.3	696.5	205.0	135.8	205.0	696.5	210.3	112.2	210.3	696.5
102.5°	140.5	243.2	942.1	541.0	296.3	541.0	942.1	243.2	140.5	243.2	942.1
105°	183.0	281.1	1068.4	1364.9	903.1	1364.9	1068.4	281.1	183.0	281.1	1068.4
107.5°	225.5	299.4	1020.0	1986.4	1860.6	1986.4	1020.0	299.4	225.5	299.4	1020.0
110°	253.8	323.1	991.7	2087.3	2243.1	2087.3	991.7	323.1	253.8	323.1	991.7



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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°	282.2	351.4	963.3	2028.3	2290.3	2028.3	963.3	351.4	282.2	351.4	963.3
115°	324.7	393.9	920.8	1914.0	2237.2	1914.0	920.8	393.9	324.7	393.9	920.8
117.5°	368.3	436.4	910.2	1790.2	2122.7	1790.2	910.2	436.4	368.3	436.4	910.2
120°	401.4	464.9	891.3	1696.1	2042.4	1696.1	891.3	464.9	401.4	464.9	891.3
122.5°	425.0	493.1	867.7	1615.2	1933.8	1615.2	867.7	493.1	425.0	493.1	867.7
125°	466.3	529.8	867.7	1517.4	1794.5	1517.4	867.7	529.8	466.3	529.8	867.7
127.5°	500.6	565.2	868.9	1404.0	1677.6	1404.0	868.9	565.2	500.6	565.2	868.9
130°	519.5	588.7	873.6	1328.1	1587.9	1328.1	873.6	588.7	519.5	588.7	873.6
132.5°	543.1	612.3	873.6	1294.0	1507.6	1294.0	873.6	612.3	543.1	612.3	873.6
135°	578.5	642.0	873.6	1249.7	1434.4	1249.7	873.6	642.0	578.5	642.0	873.6
137.5°	608.0	676.1	873.6	1200.7	1358.8	1200.7	873.6	676.1	608.0	676.1	873.6
140°	631.6	695.1	873.6	1172.0	1316.3	1172.0	873.6	695.1	631.6	695.1	873.6
142.5°	655.2	714.1	878.3	1138.8	1273.8	1138.8	878.3	714.1	655.2	714.1	878.3
145°	684.7	742.4	879.5	1088.8	1204.2	1088.8	879.5	742.4	684.7	742.4	879.5
147.5°	720.1	770.9	886.6	1052.7	1141.6	1052.7	886.6	770.9	720.1	770.9	886.6
150°	743.8	789.9	891.3	1028.8	1103.8	1028.8	891.3	789.9	743.8	789.9	891.3
152.5°	767.4	808.9	891.3	1009.6	1070.8	1009.6	891.3	808.9	767.4	808.9	891.3
155°	802.8	831.6	897.2	986.8	1033.0	986.8	897.2	831.6	802.8	831.6	897.2
157.5°	831.1	858.8	904.3	972.4	1005.8	972.4	904.3	858.8	831.1	858.8	904.3
160°	850.0	873.1	909.0	962.8	991.7	962.8	909.0	873.1	850.0	873.1	909.0
162.5°	864.2	887.3	913.8	957.9	977.5	957.9	913.8	887.3	864.2	887.3	913.8
165°	891.3	902.9	920.8	944.9	962.2	944.9	920.8	902.9	891.3	902.9	920.8
167.5°	906.7	917.1	926.7	938.8	949.2	938.8	926.7	917.1	906.7	917.1	926.7
170°	920.8	926.6	926.7	938.7	944.5	938.7	926.7	926.6	920.8	926.6	926.7
172.5°	925.6	936.0	931.5	934.0	939.7	934.0	931.5	936.0	925.6	936.0	931.5
175°	938.6	944.3	938.6	932.5	926.7	932.5	938.6	944.3	938.6	944.3	938.6
177.5°	938.6	943.2	938.6	938.5	933.8	938.5	938.6	943.2	938.6	943.2	938.6
180°	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	908.6	907.8	909.4	922.9	950.3	975.1
5°	827.6	830.5	833.4	856.2	904.2	969.9
7.5°	765.4	761.1	767.7	804.8	863.7	958.1
10°	722.5	712.9	722.5	773.2	841.8	946.2
12.5°	682.1	670.2	685.2	740.8	823.7	930.4
15°	630.1	641.7	634.9	697.1	796.4	902.7
17.5°	642.4	700.8	654.8	659.1	769.2	874.2
20°	671.7	731.7	691.1	633.8	751.7	851.3
22.5°	698.3	743.5	706.8	612.4	734.2	830.7
25°	718.7	757.4	716.8	593.2	708.9	795.9
27.5°	719.7	725.1	720.1	591.7	677.6	761.3
30°	706.4	683.2	704.5	593.2	655.3	733.6
32.5°	668.4	642.1	660.3	590.1	632.9	697.3
35°	614.2	579.4	604.5	573.5	598.0	635.8
37.5°	557.0	513.0	547.8	540.6	568.4	553.3
40°	518.3	441.0	510.6	508.2	552.1	484.5
42.5°	468.7	403.0	461.8	482.1	534.3	445.7
45°	378.5	370.8	374.6	438.0	496.3	406.4
47.5°	346.1	340.9	344.2	397.9	453.4	389.2
50°	327.1	320.3	325.2	371.8	426.0	375.7
52.5°	300.7	282.4	298.8	336.2	397.7	353.6
55°	226.2	171.0	225.2	295.6	355.1	316.4
57.5°	132.7	98.9	129.8	257.3	300.8	277.0
60°	89.8	83.1	90.8	226.4	264.7	254.1
62.5°	82.0	79.9	82.2	157.6	232.5	231.2
65°	75.1	74.2	75.1	91.0	191.9	197.7
67.5°	68.0	67.0	68.8	69.8	151.6	163.7
70°	63.3	62.3	63.3	64.3	116.3	142.4
72.5°	57.7	56.8	57.7	58.7	81.8	121.8
75°	49.4	48.4	49.4	50.4	54.2	92.0
77.5°	39.9	39.9	40.9	40.9	38.0	63.9
80°	33.6	33.6	34.6	34.6	32.9	46.5
82.5°	27.3	26.5	28.2	29.1	27.2	33.0
85°	16.8	15.8	17.8	18.8	17.8	15.8
87.5°	9.9	9.1	10.6	11.1	9.8	4.7
90°	17.7	17.7	17.7	11.8	5.8	0.0
92.5°	36.7	41.3	36.7	26.0	19.9	14.2
95°	53.4	64.9	53.4	47.2	87.6	47.2
97.5°	102.4	88.5	102.4	347.1	168.1	83.8
100°	205.0	135.8	205.0	696.5	210.3	112.2
102.5°	541.0	296.3	541.0	942.1	243.2	140.5
105°	1364.9	903.1	1364.9	1068.4	281.1	183.0
107.5°	1986.4	1860.6	1986.4	1020.0	299.4	225.5
110°	2087.3	2243.1	2087.3	991.7	323.1	253.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2028.3	2290.3	2028.3	963.3	351.4	282.2
115°	1914.0	2237.2	1914.0	920.8	393.9	324.7
117.5°	1790.2	2122.7	1790.2	910.2	436.4	368.3
120°	1696.1	2042.4	1696.1	891.3	464.9	401.4
122.5°	1615.2	1933.8	1615.2	867.7	493.1	425.0
125°	1517.4	1794.5	1517.4	867.7	529.8	466.3
127.5°	1404.0	1677.6	1404.0	868.9	565.2	500.6
130°	1328.1	1587.9	1328.1	873.6	588.7	519.5
132.5°	1294.0	1507.6	1294.0	873.6	612.3	543.1
135°	1249.7	1434.4	1249.7	873.6	642.0	578.5
137.5°	1200.7	1358.8	1200.7	873.6	676.1	608.0
140°	1172.0	1316.3	1172.0	873.6	695.1	631.6
142.5°	1138.8	1273.8	1138.8	878.3	714.1	655.2
145°	1088.8	1204.2	1088.8	879.5	742.4	684.7
147.5°	1052.7	1141.6	1052.7	886.6	770.9	720.1
150°	1028.8	1103.8	1028.8	891.3	789.9	743.8
152.5°	1009.6	1070.8	1009.6	891.3	808.9	767.4
155°	986.8	1033.0	986.8	897.2	831.6	802.8
157.5°	972.4	1005.8	972.4	904.3	858.8	831.1
160°	962.8	991.7	962.8	909.0	873.1	850.0
162.5°	957.9	977.5	957.9	913.8	887.3	864.2
165°	944.9	962.2	944.9	920.8	902.9	891.3
167.5°	938.8	949.2	938.8	926.7	917.1	906.7
170°	938.7	944.5	938.7	926.7	926.6	920.8
172.5°	934.0	939.7	934.0	931.5	936.0	925.6
175°	932.5	926.7	932.5	938.6	944.3	938.6
177.5°	938.5	933.8	938.5	938.6	943.2	938.6
180°	938.6	938.6	938.6	938.6	938.6	938.6

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