

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: P621704

Luminaire Tested: VLT-FA-125U-075D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621704
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-835-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

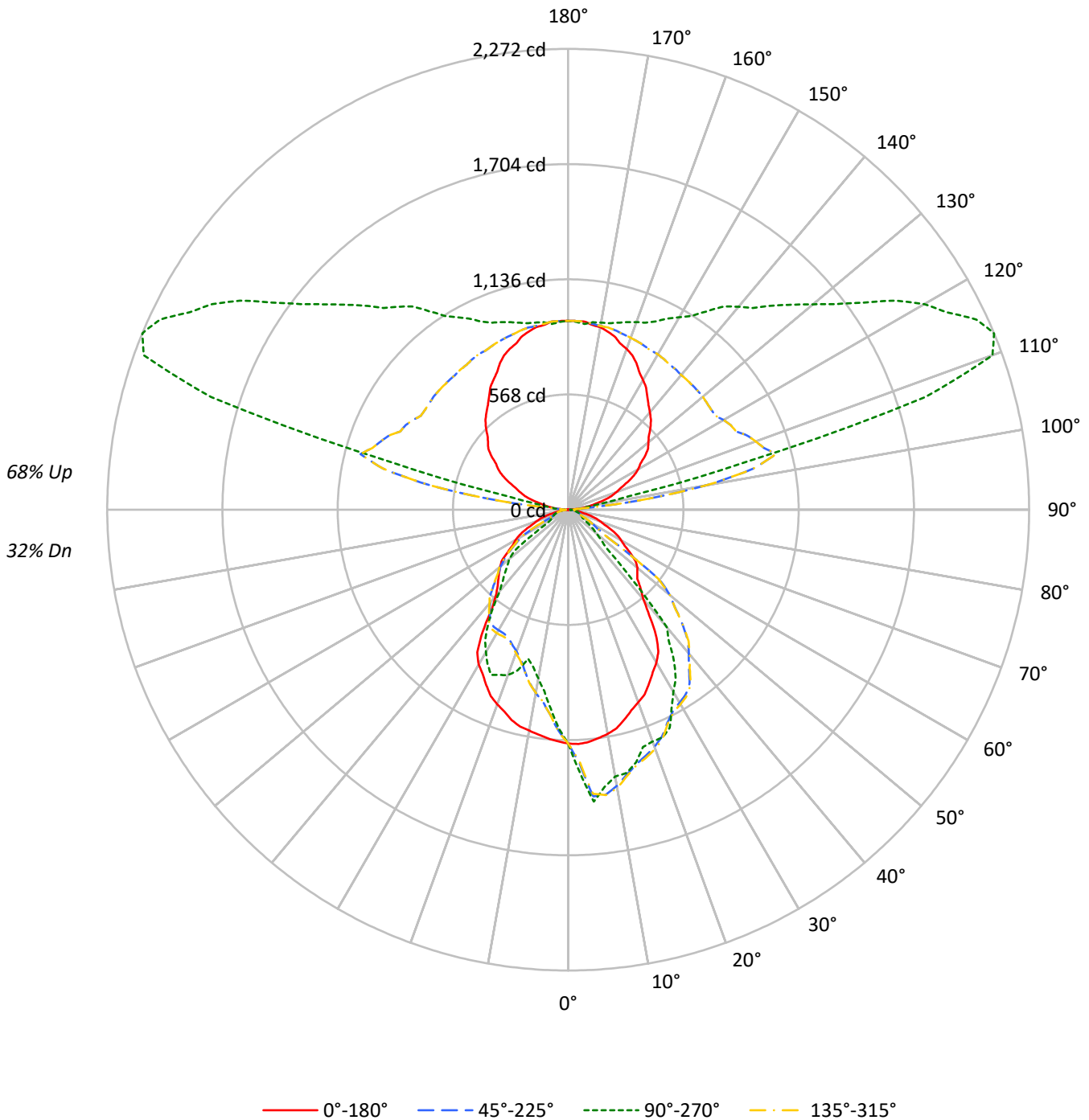
Lumens per Lamp: N/A
Luminaire Lumens: 7380.3 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	8272	8272	8272	8272
5°	8286	10406	8159	7095
10°	8177	9732	8058	6160
15°	7954	9583	7980	5654
20°	7710	9286	7799	6626
25°	7474	9387	7558	7112
30°	7210	8589	7307	6714
35°	6605	7961	6441	6019
40°	5383	7085	5195	4899
45°	4890	2629	4938	4462
50°	4975	2003	4883	4241
55°	4694	1555	4533	2538
60°	4326	1196	4291	1414
65°	3982	1234	3902	1493
70°	3544	1303	3445	1550
75°	3025	1364	2895	1594
80°	2277	1405	2132	1649
85°	1548	1251	1350	1548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9056 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	1.5
10°-20°	304.6	4.1
20°-30°	455.8	6.2
30°-40°	518.3	7.0
40°-50°	443.3	6.0
50°-60°	298.9	4.1
60°-70°	154.3	2.1
70°-80°	69.7	0.9
80°-90°	22.8	0.3
90°-100°	114.5	1.6
100°-110°	815.7	11.1
110°-120°	1107.4	15.0
120°-130°	901.3	12.2
130°-140°	724.9	9.8
140°-150°	571.5	7.7
150°-160°	417.9	5.7
160°-170°	259.6	3.5
170°-180°	88.5	1.2
0°-30°	871.6	11.8
0°-40°	1389.9	18.8
0°-60°	2132.2	28.9
0°-90°	2379.0	32.2
90°-120°	2037.7	27.6
90°-150°	4235.4	57.4
90°-180°	5001.0	67.8
0°-180°	7380.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1150	1445	1133	985	1150	109
15°	1071	1290	1074	761	1071	301
25°	944	1186	954	898	944	434
35°	754	909	735	687	754	461
45°	482	259	487	440	482	382
55°	375	124	362	203	375	334
65°	234	73	230	88	234	232
75°	109	49	104	58	109	116
85°	19	15	16	19	19	24
90°	0	18	0	18	0	3
95°	47	64	47	64	47	52
105°	182	896	182	896	182	191
115°	322	2219	322	2219	322	320
125°	463	1780	463	1780	463	411
135°	574	1423	574	1423	574	441
145°	679	1195	679	1195	679	427
155°	796	1025	796	1025	796	366
165°	884	954	884	954	884	248
175°	931	919	931	919	931	88
180°	931	931	931	931	931	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1156.4	1195.9	1245.5	1279.6	1294.3	1279.6	1237.1	1195.6	1143.3	1127.7	1090.8
5°	1150.3	1271.9	1418.8	1436.6	1444.6	1436.6	1405.9	1264.6	1132.7	1076.6	1015.5
7.5°	1136.3	1348.8	1417.2	1377.6	1377.8	1385.1	1419.3	1342.2	1118.0	1029.7	954.7
10°	1122.2	1391.6	1382.5	1325.3	1335.6	1331.0	1393.1	1383.2	1105.8	1003.7	918.1
12.5°	1103.4	1405.0	1336.5	1317.8	1329.0	1322.6	1343.3	1397.7	1095.4	985.1	875.9
15°	1070.6	1385.9	1298.1	1289.9	1289.9	1295.6	1303.9	1391.7	1074.1	951.4	824.3
17.5°	1036.8	1347.8	1271.3	1230.7	1226.3	1233.9	1281.0	1357.5	1043.9	914.1	774.4
20°	1009.6	1321.5	1244.1	1196.5	1216.0	1198.8	1254.7	1328.6	1021.3	890.6	743.4
22.5°	985.2	1288.8	1209.4	1189.1	1215.1	1189.6	1219.0	1295.9	995.1	864.4	720.0
25°	943.9	1234.0	1157.4	1176.3	1185.5	1176.3	1162.0	1238.8	954.5	830.7	695.4
27.5°	902.9	1176.2	1118.4	1131.2	1103.2	1124.7	1124.8	1176.5	912.8	791.4	687.8
30°	870.1	1136.1	1098.7	1080.1	1036.6	1071.0	1106.9	1136.3	881.8	766.0	686.0
32.5°	826.9	1099.3	1079.0	1014.8	986.9	1010.3	1088.2	1098.6	834.0	742.9	684.1
35°	754.0	1047.5	1043.6	937.4	908.8	930.6	1051.8	1044.8	735.2	706.6	669.6
37.5°	656.2	1001.3	975.8	859.2	813.6	853.5	983.6	996.3	618.4	673.2	635.6
40°	574.6	970.1	925.2	801.0	756.3	795.3	931.0	967.4	554.6	649.8	598.0
42.5°	528.6	942.5	871.7	739.5	462.7	730.1	877.6	939.0	515.2	619.6	565.2
45°	481.9	892.4	793.9	409.3	259.1	389.9	795.0	879.9	486.6	573.8	514.8
47.5°	461.5	830.7	712.5	246.6	218.8	239.4	711.8	817.2	461.8	527.8	466.7
50°	445.6	791.8	654.3	217.2	179.4	209.2	655.5	779.1	437.4	497.0	433.9
52.5°	419.3	745.4	570.8	180.0	155.0	175.7	557.0	730.8	412.1	463.4	392.6
55°	375.2	656.1	238.0	141.5	124.3	135.8	226.3	634.1	362.3	410.5	344.7
57.5°	328.6	558.6	167.0	110.1	96.4	109.0	165.8	536.2	322.5	347.7	300.7
60°	301.4	492.8	136.0	92.4	83.3	91.3	134.8	473.3	299.0	305.9	260.3
62.5°	274.2	426.2	112.6	81.3	78.6	80.2	112.3	404.8	269.9	270.4	183.4
65°	234.5	322.8	83.3	73.8	72.7	72.7	80.9	311.2	229.8	223.0	105.5
67.5°	194.2	231.8	66.8	68.0	66.8	66.8	65.7	225.3	189.5	177.8	79.7
70°	168.9	178.0	62.1	63.3	62.1	62.1	61.0	173.3	164.2	137.8	75.0
72.5°	144.5	121.5	57.5	57.7	57.5	57.5	56.3	114.1	139.8	96.9	68.5
75°	109.1	60.9	49.2	49.2	49.2	49.2	48.1	58.5	104.4	63.1	58.6
77.5°	75.8	40.2	40.8	40.6	40.6	39.7	39.6	39.9	71.3	43.5	47.4
80°	55.1	33.3	35.2	34.0	34.0	34.0	34.0	32.1	51.6	36.7	39.9
82.5°	39.2	26.6	28.6	27.4	27.4	27.4	27.4	26.2	35.6	29.9	32.4
85°	18.8	17.6	18.8	16.4	15.2	16.4	17.6	17.6	16.4	19.9	21.1
87.5°	5.6	9.5	9.8	9.1	9.1	9.1	8.9	8.6	4.7	10.4	10.8
90°	0.0	5.7	11.7	17.6	17.6	17.6	11.7	5.7	0.0	5.7	11.7
92.5°	14.1	19.8	25.8	36.4	41.0	36.4	25.8	19.8	14.1	19.8	25.8
95°	46.8	86.9	46.8	53.0	64.4	53.0	46.8	86.9	46.8	86.9	46.8
97.5°	83.2	166.7	344.3	101.6	87.8	101.6	344.3	166.7	83.2	166.7	344.3
100°	111.3	208.6	691.0	203.4	134.7	203.4	691.0	208.6	111.3	208.6	691.0
102.5°	139.4	241.3	934.6	536.7	294.0	536.7	934.6	241.3	139.4	241.3	934.6
105°	181.5	278.9	1059.9	1354.0	895.9	1354.0	1059.9	278.9	181.5	278.9	1059.9
107.5°	223.7	297.0	1011.9	1970.5	1845.7	1970.5	1011.9	297.0	223.7	297.0	1011.9
110°	251.8	320.5	983.8	2070.6	2225.2	2070.6	983.8	320.5	251.8	320.5	983.8



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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°	279.9	348.6	955.6	2012.1	2272.0	2012.1	955.6	348.6	279.9	348.6	955.6
115°	322.1	390.8	913.5	1898.7	2219.3	1898.7	913.5	390.8	322.1	390.8	913.5
117.5°	365.4	433.0	902.9	1775.9	2105.7	1775.9	902.9	433.0	365.4	433.0	902.9
120°	398.2	461.2	884.2	1682.5	2026.1	1682.5	884.2	461.2	398.2	461.2	884.2
122.5°	421.6	489.2	860.8	1602.3	1918.3	1602.3	860.8	489.2	421.6	489.2	860.8
125°	462.6	525.6	860.8	1505.3	1780.1	1505.3	860.8	525.6	462.6	525.6	860.8
127.5°	496.6	560.7	862.0	1392.8	1664.2	1392.8	862.0	560.7	496.6	560.7	862.0
130°	515.3	584.0	866.6	1317.5	1575.2	1317.5	866.6	584.0	515.3	584.0	866.6
132.5°	538.7	607.4	866.6	1283.7	1495.5	1283.7	866.6	607.4	538.7	607.4	866.6
135°	573.9	636.8	866.6	1239.7	1422.9	1239.7	866.6	636.8	573.9	636.8	866.6
137.5°	603.1	670.7	866.6	1191.1	1348.0	1191.1	866.6	670.7	603.1	670.7	866.6
140°	626.6	689.5	866.6	1162.7	1305.8	1162.7	866.6	689.5	626.6	689.5	866.6
142.5°	650.0	708.4	871.3	1129.7	1263.7	1129.7	871.3	708.4	650.0	708.4	871.3
145°	679.3	736.5	872.5	1080.1	1194.6	1080.1	872.5	736.5	679.3	736.5	872.5
147.5°	714.4	764.8	879.5	1044.3	1132.5	1044.3	879.5	764.8	714.4	764.8	879.5
150°	737.8	783.6	884.2	1020.6	1095.0	1020.6	884.2	783.6	737.8	783.6	884.2
152.5°	761.2	802.5	884.2	1001.5	1062.2	1001.5	884.2	802.5	761.2	802.5	884.2
155°	796.4	825.0	890.1	978.9	1024.7	978.9	890.1	825.0	796.4	825.0	890.1
157.5°	824.5	852.0	897.1	964.6	997.8	964.6	897.1	852.0	824.5	852.0	897.1
160°	843.2	866.1	901.8	955.1	983.8	955.1	901.8	866.1	843.2	866.1	901.8
162.5°	857.3	880.2	906.5	950.2	969.7	950.2	906.5	880.2	857.3	880.2	906.5
165°	884.2	895.7	913.5	937.3	954.5	937.3	913.5	895.7	884.2	895.7	913.5
167.5°	899.4	909.7	919.3	931.3	941.6	931.3	919.3	909.7	899.4	909.7	919.3
170°	913.5	919.2	919.3	931.2	936.9	931.2	919.3	919.2	913.5	919.2	919.3
172.5°	918.2	928.5	924.0	926.5	932.2	926.5	924.0	928.5	918.2	928.5	924.0
175°	931.1	936.8	931.1	925.1	919.3	925.1	931.1	936.8	931.1	936.8	931.1
177.5°	931.1	935.6	931.1	931.0	926.4	931.0	931.1	935.6	931.1	935.6	931.1
180°	931.1	931.1	931.1	931.1	931.1	931.1	931.1	931.1	931.1	931.1	931.1

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1077.6	1076.7	1078.5	1094.5	1127.1	1156.4
5°	981.5	985.0	988.4	1015.5	1072.4	1150.3
7.5°	907.7	902.7	910.5	954.5	1024.3	1136.3
10°	856.9	845.4	856.9	917.0	998.4	1122.2
12.5°	809.0	794.8	812.7	878.5	976.8	1103.4
15°	747.3	761.0	753.0	826.7	944.5	1070.6
17.5°	761.9	831.1	776.6	781.7	912.3	1036.8
20°	796.6	867.7	819.6	751.6	891.5	1009.6
22.5°	828.1	881.8	838.2	726.3	870.8	985.2
25°	852.4	898.2	850.1	703.6	840.8	943.9
27.5°	853.6	860.0	854.0	701.7	803.6	902.9
30°	837.8	810.3	835.5	703.6	777.2	870.1
32.5°	792.7	761.5	783.0	699.8	750.6	826.9
35°	728.4	687.1	717.0	680.1	709.3	754.0
37.5°	660.6	608.3	649.6	641.2	674.1	656.2
40°	614.7	523.0	605.5	602.7	654.8	574.6
42.5°	555.9	478.0	547.7	571.8	633.6	528.6
45°	448.9	439.7	444.3	519.5	588.6	481.9
47.5°	410.5	404.3	408.2	471.9	537.7	461.5
50°	387.9	379.9	385.7	440.9	505.2	445.6
52.5°	356.7	334.9	354.4	398.7	471.6	419.3
55°	268.2	202.9	267.1	350.6	421.1	375.2
57.5°	157.4	117.3	153.9	305.1	356.8	328.6
60°	106.5	98.5	107.7	268.5	314.0	301.4
62.5°	97.3	94.7	97.5	186.9	275.8	274.2
65°	89.1	87.9	89.1	107.9	227.6	234.5
67.5°	80.6	79.5	81.6	82.8	179.7	194.2
70°	75.0	73.9	75.0	76.2	137.9	168.9
72.5°	68.5	67.3	68.5	69.7	97.0	144.5
75°	58.6	57.5	58.6	59.8	64.3	109.1
77.5°	47.4	47.4	48.5	48.5	45.0	75.8
80°	39.9	39.9	41.0	41.0	39.1	55.1
82.5°	32.3	31.4	33.5	34.5	32.3	39.2
85°	19.9	18.8	21.1	22.3	21.1	18.8
87.5°	11.0	10.1	11.9	12.7	11.4	5.6
90°	17.6	17.6	17.6	11.7	5.7	0.0
92.5°	36.4	41.0	36.4	25.8	19.8	14.1
95°	53.0	64.4	53.0	46.8	86.9	46.8
97.5°	101.6	87.8	101.6	344.3	166.7	83.2
100°	203.4	134.7	203.4	691.0	208.6	111.3
102.5°	536.7	294.0	536.7	934.6	241.3	139.4
105°	1354.0	895.9	1354.0	1059.9	278.9	181.5
107.5°	1970.5	1845.7	1970.5	1011.9	297.0	223.7
110°	2070.6	2225.2	2070.6	983.8	320.5	251.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2012.1	2272.0	2012.1	955.6	348.6	279.9
115°	1898.7	2219.3	1898.7	913.5	390.8	322.1
117.5°	1775.9	2105.7	1775.9	902.9	433.0	365.4
120°	1682.5	2026.1	1682.5	884.2	461.2	398.2
122.5°	1602.3	1918.3	1602.3	860.8	489.2	421.6
125°	1505.3	1780.1	1505.3	860.8	525.6	462.6
127.5°	1392.8	1664.2	1392.8	862.0	560.7	496.6
130°	1317.5	1575.2	1317.5	866.6	584.0	515.3
132.5°	1283.7	1495.5	1283.7	866.6	607.4	538.7
135°	1239.7	1422.9	1239.7	866.6	636.8	573.9
137.5°	1191.1	1348.0	1191.1	866.6	670.7	603.1
140°	1162.7	1305.8	1162.7	866.6	689.5	626.6
142.5°	1129.7	1263.7	1129.7	871.3	708.4	650.0
145°	1080.1	1194.6	1080.1	872.5	736.5	679.3
147.5°	1044.3	1132.5	1044.3	879.5	764.8	714.4
150°	1020.6	1095.0	1020.6	884.2	783.6	737.8
152.5°	1001.5	1062.2	1001.5	884.2	802.5	761.2
155°	978.9	1024.7	978.9	890.1	825.0	796.4
157.5°	964.6	997.8	964.6	897.1	852.0	824.5
160°	955.1	983.8	955.1	901.8	866.1	843.2
162.5°	950.2	969.7	950.2	906.5	880.2	857.3
165°	937.3	954.5	937.3	913.5	895.7	884.2
167.5°	931.3	941.6	931.3	919.3	909.7	899.4
170°	931.2	936.9	931.2	919.3	919.2	913.5
172.5°	926.5	932.2	926.5	924.0	928.5	918.2
175°	925.1	919.3	925.1	931.1	936.8	931.1
177.5°	931.0	926.4	931.0	931.1	935.6	931.1
180°	931.1	931.1	931.1	931.1	931.1	931.1

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