

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: P621592

Luminaire Tested: VLT-FA-025U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621592  
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-100D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

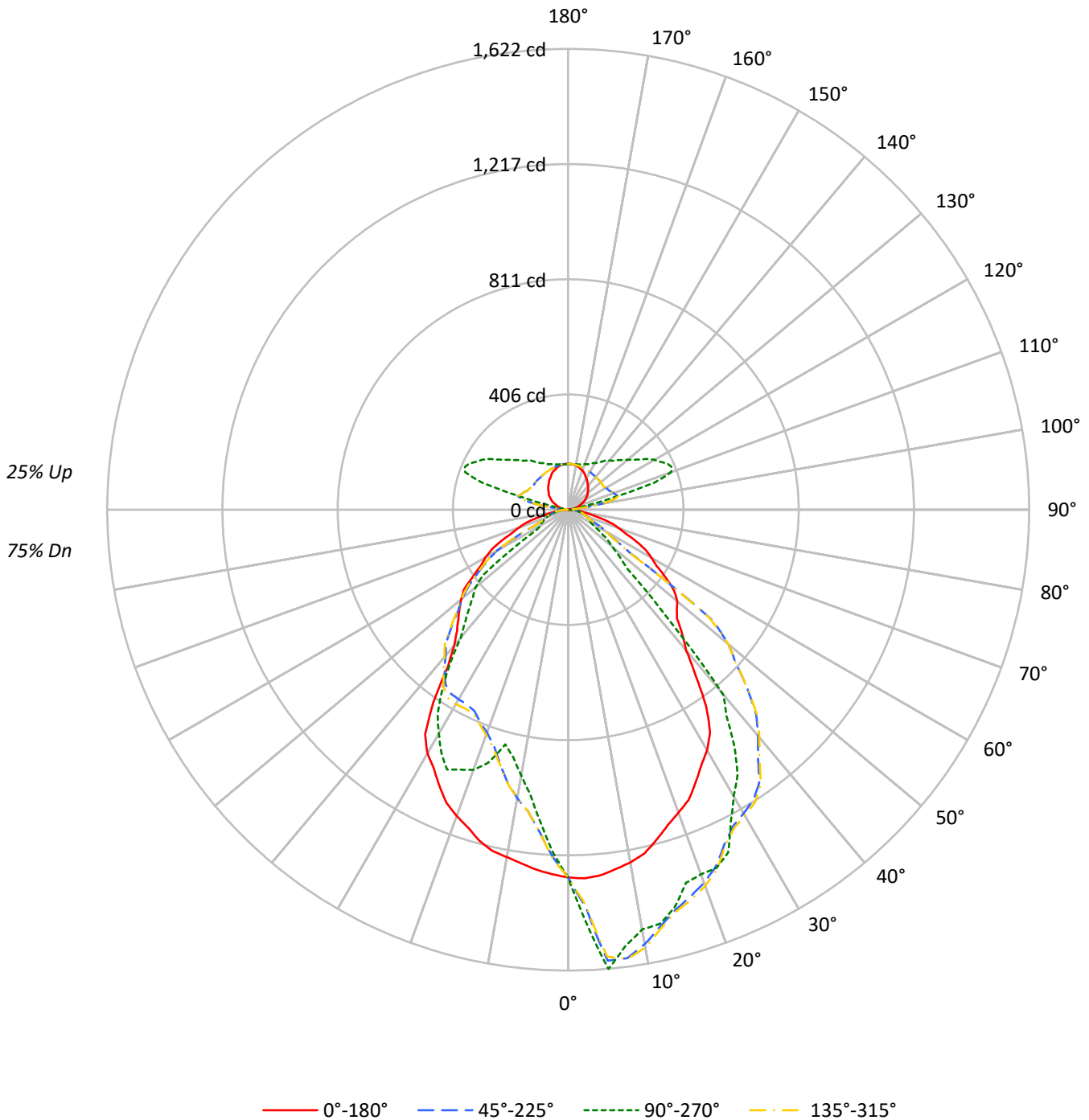
Lumens per Lamp: N/A  
Luminaire Lumens: 3536.4 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 37.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	80	80	80	75
1	105	101	97	94	100	96	93	90	88	85	83	80	78	76	72	71	70	66
2	96	90	84	79	92	86	81	76	78	74	71	71	68	66	65	63	61	57
3	89	80	73	67	84	76	70	65	70	65	61	64	60	57	59	56	53	50
4	82	72	64	58	78	69	62	56	63	58	53	58	54	50	53	50	47	44
5	76	64	57	51	72	62	55	49	57	51	47	53	48	44	49	45	41	39
6	70	58	51	45	67	56	49	44	52	46	41	48	43	39	45	40	37	35
7	65	53	45	40	62	51	44	39	48	42	37	44	39	35	41	37	33	31
8	61	49	41	36	58	47	40	35	44	38	33	41	36	32	38	33	30	28
9	57	45	37	32	54	43	36	32	40	34	30	38	33	29	35	31	27	26
10	53	41	34	29	51	40	33	29	37	32	28	35	30	26	33	28	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9290	9290	9290	9290
5°	9307	11687	9164	7969
10°	9184	10931	9049	6919
15°	8933	10763	8962	6350
20°	8659	10429	8760	7443
25°	8394	10543	8488	7987
30°	8097	9647	8207	7540
35°	7418	8942	7234	6761
40°	6045	7958	5835	5502
45°	5493	2954	5547	5012
50°	5587	2250	5484	4764
55°	5272	1747	5092	2850
60°	4858	1342	4819	1587
65°	4472	1387	4382	1678
70°	3978	1464	3869	1741
75°	3396	1533	3249	1788
80°	2558	1579	2393	1851
85°	1737	1408	1515	1737

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10172 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.9	3.5
10°-20°	342.1	9.7
20°-30°	511.9	14.5
30°-40°	582.2	16.5
40°-50°	497.9	14.1
50°-60°	335.8	9.5
60°-70°	173.3	4.9
70°-80°	78.2	2.2
80°-90°	23.6	0.7
90°-100°	19.8	0.6
100°-110°	141.3	4.0
110°-120°	191.9	5.4
120°-130°	156.1	4.4
130°-140°	125.6	3.6
140°-150°	99.0	2.8
150°-160°	72.4	2.0
160°-170°	45.0	1.3
170°-180°	15.3	0.4
0°-30°	978.9	27.7
0°-40°	1561.1	44.1
0°-60°	2394.7	67.7
0°-90°	2669.9	75.5
90°-120°	353.0	10.0
90°-150°	733.8	20.7
90°-180°	866.0	24.5
0°-180°	3536.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1295	1295	1295	1295	1295	
5°	1292	1622	1272	1106	1292	122
15°	1202	1449	1206	855	1202	338
25°	1060	1332	1072	1009	1060	488
35°	847	1021	826	772	847	518
45°	541	291	547	494	541	429
55°	421	140	407	228	421	375
65°	263	82	258	99	263	260
75°	122	55	117	64	122	131
85°	21	17	18	21	21	27
90°	0	3	0	3	0	1
95°	8	11	8	11	8	9
105°	31	155	31	155	31	33
115°	56	384	56	384	56	55
125°	80	308	80	308	80	71
135°	99	246	99	246	99	76
145°	118	207	118	207	118	74
155°	138	178	138	178	138	63
165°	153	165	153	165	153	43
175°	161	159	161	159	161	15
180°	161	161	161	161	161	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1298.8	1343.1	1398.9	1437.2	1453.7	1437.2	1389.4	1342.8	1284.1	1266.6	1225.1
5°	1292.0	1428.5	1593.6	1613.5	1622.5	1613.5	1579.1	1420.3	1272.2	1209.1	1140.5
7.5°	1276.2	1514.9	1591.7	1547.2	1547.5	1555.7	1594.1	1507.5	1255.6	1156.5	1072.3
10°	1260.4	1563.0	1552.7	1488.5	1500.1	1494.9	1564.6	1553.6	1241.9	1127.3	1031.2
12.5°	1239.3	1578.0	1501.1	1480.1	1492.7	1485.5	1508.8	1569.8	1230.3	1106.5	983.8
15°	1202.4	1556.5	1457.9	1448.7	1448.7	1455.1	1464.5	1563.1	1206.4	1068.6	925.8
17.5°	1164.5	1513.7	1427.9	1382.2	1377.3	1385.8	1438.7	1524.7	1172.4	1026.6	869.7
20°	1133.9	1484.2	1397.3	1343.8	1365.7	1346.4	1409.2	1492.2	1147.1	1000.3	835.0
22.5°	1106.5	1447.5	1358.4	1335.6	1364.7	1336.1	1369.2	1455.5	1117.6	970.8	808.6
25°	1060.2	1386.0	1299.9	1321.2	1331.5	1321.2	1305.1	1391.4	1072.0	933.0	781.0
27.5°	1014.1	1321.1	1256.2	1270.5	1239.0	1263.2	1263.3	1321.3	1025.2	888.9	772.6
30°	977.2	1276.0	1234.0	1213.2	1164.2	1202.9	1243.2	1276.3	990.4	860.3	770.4
32.5°	928.7	1234.7	1211.9	1139.8	1108.4	1134.7	1222.2	1233.9	936.6	834.4	768.3
35°	846.8	1176.5	1172.1	1052.9	1020.7	1045.1	1181.3	1173.4	825.8	793.6	752.0
37.5°	737.0	1124.6	1096.0	965.0	913.7	958.5	1104.7	1119.0	694.6	756.1	713.8
40°	645.3	1089.6	1039.1	899.7	849.5	893.2	1045.7	1086.5	622.9	729.8	671.7
42.5°	593.7	1058.6	979.1	830.5	519.7	820.0	985.6	1054.6	578.7	695.9	634.8
45°	541.3	1002.3	891.6	459.7	291.1	437.9	892.9	988.2	546.6	644.4	578.2
47.5°	518.4	933.0	800.2	276.9	245.8	268.9	799.4	917.8	518.6	592.8	524.2
50°	500.5	889.4	734.9	244.0	201.5	235.0	736.2	875.0	491.2	558.2	487.3
52.5°	471.0	837.2	641.1	202.2	174.1	197.3	625.6	820.8	462.8	520.5	440.9
55°	421.4	736.9	267.4	158.9	139.6	152.5	254.2	712.1	407.0	461.0	387.2
57.5°	369.0	627.3	187.5	123.7	108.3	122.4	186.2	602.2	362.2	390.5	337.7
60°	338.5	553.5	152.8	103.8	93.5	102.5	151.5	531.6	335.8	343.6	292.4
62.5°	307.9	478.7	126.4	91.3	88.2	90.0	126.2	454.6	303.2	303.7	206.0
65°	263.4	362.6	93.5	82.9	81.7	81.7	90.9	349.6	258.1	250.4	118.5
67.5°	218.1	260.3	75.1	76.4	75.1	75.1	73.8	253.0	212.8	199.7	89.6
70°	189.6	199.9	69.8	71.1	69.8	69.8	68.5	194.7	184.4	154.8	84.3
72.5°	162.3	136.5	64.5	64.8	64.5	64.5	63.2	128.1	157.0	108.8	76.9
75°	122.5	68.4	55.3	55.3	55.3	55.3	54.0	65.7	117.2	70.9	65.8
77.5°	85.1	45.2	45.8	45.6	45.6	44.5	44.5	44.8	80.1	48.9	53.2
80°	61.9	37.4	39.5	38.2	38.2	38.2	38.2	36.1	57.9	41.2	44.8
82.5°	44.0	29.8	32.1	30.8	30.8	30.8	30.8	29.5	40.0	33.6	36.3
85°	21.1	19.8	21.1	18.4	17.1	18.4	19.8	19.7	18.4	22.3	23.7
87.5°	6.3	9.6	8.8	6.9	6.9	6.9	7.8	8.6	5.3	10.6	9.9
90°	0.0	1.0	2.0	3.0	3.0	3.0	2.0	1.0	0.0	1.0	2.0
92.5°	2.4	3.4	4.5	6.3	7.1	6.3	4.5	3.4	2.4	3.4	4.5
95°	8.1	15.1	8.1	9.2	11.2	9.2	8.1	15.1	8.1	15.1	8.1
97.5°	14.4	28.9	59.7	17.6	15.2	17.6	59.7	28.9	14.4	28.9	59.7
100°	19.3	36.1	119.7	35.2	23.3	35.2	119.7	36.1	19.3	36.1	119.7
102.5°	24.1	41.8	161.9	93.0	50.9	93.0	161.9	41.8	24.1	41.8	161.9
105°	31.4	48.3	183.6	234.6	155.2	234.6	183.6	48.3	31.4	48.3	183.6
107.5°	38.8	51.5	175.3	341.4	319.8	341.4	175.3	51.5	38.8	51.5	175.3
110°	43.6	55.5	170.4	358.7	385.5	358.7	170.4	55.5	43.6	55.5	170.4



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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°	48.5	60.4	165.6	348.6	393.6	348.6	165.6	60.4	48.5	60.4	165.6
115°	55.8	67.7	158.3	328.9	384.5	328.9	158.3	67.7	55.8	67.7	158.3
117.5°	63.3	75.0	156.4	307.7	364.8	307.7	156.4	75.0	63.3	75.0	156.4
120°	69.0	79.9	153.2	291.5	351.0	291.5	153.2	79.9	69.0	79.9	153.2
122.5°	73.0	84.7	149.1	277.6	332.3	277.6	149.1	84.7	73.0	84.7	149.1
125°	80.1	91.1	149.1	260.8	308.4	260.8	149.1	91.1	80.1	91.1	149.1
127.5°	86.0	97.1	149.3	241.3	288.3	241.3	149.3	97.1	86.0	97.1	149.3
130°	89.3	101.2	150.1	228.3	272.9	228.3	150.1	101.2	89.3	101.2	150.1
132.5°	93.3	105.2	150.1	222.4	259.1	222.4	150.1	105.2	93.3	105.2	150.1
135°	99.4	110.3	150.1	214.8	246.5	214.8	150.1	110.3	99.4	110.3	150.1
137.5°	104.5	116.2	150.1	206.4	233.5	206.4	150.1	116.2	104.5	116.2	150.1
140°	108.6	119.5	150.1	201.4	226.2	201.4	150.1	119.5	108.6	119.5	150.1
142.5°	112.6	122.7	151.0	195.7	218.9	195.7	151.0	122.7	112.6	122.7	151.0
145°	117.7	127.6	151.2	187.1	207.0	187.1	151.2	127.6	117.7	127.6	151.2
147.5°	123.8	132.5	152.4	180.9	196.2	180.9	152.4	132.5	123.8	132.5	152.4
150°	127.8	135.8	153.2	176.8	189.7	176.8	153.2	135.8	127.8	135.8	153.2
152.5°	131.9	139.0	153.2	173.5	184.0	173.5	153.2	139.0	131.9	139.0	153.2
155°	138.0	142.9	154.2	169.6	177.5	169.6	154.2	142.9	138.0	142.9	154.2
157.5°	142.8	147.6	155.4	167.1	172.9	167.1	155.4	147.6	142.8	147.6	155.4
160°	146.1	150.1	156.2	165.5	170.4	165.5	156.2	150.1	146.1	150.1	156.2
162.5°	148.5	152.5	157.0	164.6	168.0	164.6	157.0	152.5	148.5	152.5	157.0
165°	153.2	155.2	158.3	162.4	165.4	162.4	158.3	155.2	153.2	155.2	158.3
167.5°	155.8	157.6	159.3	161.3	163.1	161.3	159.3	157.6	155.8	157.6	159.3
170°	158.3	159.3	159.3	161.3	162.3	161.3	159.3	159.3	158.3	159.3	159.3
172.5°	159.1	160.9	160.1	160.5	161.5	160.5	160.1	160.9	159.1	160.9	160.1
175°	161.3	162.3	161.3	160.3	159.3	160.3	161.3	162.3	161.3	162.3	161.3
177.5°	161.3	162.1	161.3	161.3	160.5	161.3	161.3	162.1	161.3	162.1	161.3
180°	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1210.3	1209.3	1211.3	1229.3	1265.9	1298.8
5°	1102.4	1106.3	1110.1	1140.5	1204.4	1292.0
7.5°	1019.5	1013.8	1022.6	1072.0	1150.5	1276.2
10°	962.4	949.6	962.4	1029.9	1121.3	1260.4
12.5°	908.6	892.7	912.7	986.7	1097.1	1239.3
15°	839.3	854.7	845.7	928.5	1060.8	1202.4
17.5°	855.7	933.5	872.2	877.9	1024.6	1164.5
20°	894.7	974.6	920.5	844.2	1001.3	1133.9
22.5°	930.1	990.4	941.4	815.7	978.0	1106.5
25°	957.3	1008.8	954.7	790.2	944.3	1060.2
27.5°	958.7	965.9	959.2	788.1	902.6	1014.1
30°	941.0	910.0	938.4	790.2	872.9	977.2
32.5°	890.3	855.3	879.5	786.0	843.0	928.7
35°	818.1	771.8	805.2	763.9	796.6	846.8
37.5°	742.0	683.3	729.6	720.1	757.1	737.0
40°	690.4	587.4	680.1	676.9	735.5	645.3
42.5°	624.4	536.8	615.1	642.2	711.7	593.7
45°	504.2	493.9	499.0	583.4	661.0	541.3
47.5°	461.1	454.1	458.5	530.0	603.9	518.4
50°	435.7	426.7	433.1	495.2	567.4	500.5
52.5°	400.6	376.1	398.0	447.8	529.7	471.0
55°	301.2	227.8	300.0	393.8	472.9	421.4
57.5°	176.8	131.7	172.9	342.7	400.7	369.0
60°	119.6	110.6	120.9	301.6	352.6	338.5
62.5°	109.2	106.4	109.5	209.9	309.7	307.9
65°	100.1	98.8	100.1	121.2	255.7	263.4
67.5°	90.6	89.3	91.6	93.0	201.9	218.1
70°	84.3	83.0	84.3	85.6	154.9	189.6
72.5°	76.9	75.6	76.9	78.2	108.9	162.3
75°	65.8	64.5	65.8	67.2	72.3	122.5
77.5°	53.2	53.2	54.5	54.5	50.6	85.1
80°	44.8	44.8	46.1	46.1	43.9	61.9
82.5°	36.3	35.3	37.6	38.7	36.3	44.0
85°	22.4	21.1	23.6	25.0	23.6	21.1
87.5°	9.0	8.0	10.0	12.0	11.7	6.3
90°	3.0	3.0	3.0	2.0	1.0	0.0
92.5°	6.3	7.1	6.3	4.5	3.4	2.4
95°	9.2	11.2	9.2	8.1	15.1	8.1
97.5°	17.6	15.2	17.6	59.7	28.9	14.4
100°	35.2	23.3	35.2	119.7	36.1	19.3
102.5°	93.0	50.9	93.0	161.9	41.8	24.1
105°	234.6	155.2	234.6	183.6	48.3	31.4
107.5°	341.4	319.8	341.4	175.3	51.5	38.8
110°	358.7	385.5	358.7	170.4	55.5	43.6





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	348.6	393.6	348.6	165.6	60.4	48.5
115°	328.9	384.5	328.9	158.3	67.7	55.8
117.5°	307.7	364.8	307.7	156.4	75.0	63.3
120°	291.5	351.0	291.5	153.2	79.9	69.0
122.5°	277.6	332.3	277.6	149.1	84.7	73.0
125°	260.8	308.4	260.8	149.1	91.1	80.1
127.5°	241.3	288.3	241.3	149.3	97.1	86.0
130°	228.3	272.9	228.3	150.1	101.2	89.3
132.5°	222.4	259.1	222.4	150.1	105.2	93.3
135°	214.8	246.5	214.8	150.1	110.3	99.4
137.5°	206.4	233.5	206.4	150.1	116.2	104.5
140°	201.4	226.2	201.4	150.1	119.5	108.6
142.5°	195.7	218.9	195.7	151.0	122.7	112.6
145°	187.1	207.0	187.1	151.2	127.6	117.7
147.5°	180.9	196.2	180.9	152.4	132.5	123.8
150°	176.8	189.7	176.8	153.2	135.8	127.8
152.5°	173.5	184.0	173.5	153.2	139.0	131.9
155°	169.6	177.5	169.6	154.2	142.9	138.0
157.5°	167.1	172.9	167.1	155.4	147.6	142.8
160°	165.5	170.4	165.5	156.2	150.1	146.1
162.5°	164.6	168.0	164.6	157.0	152.5	148.5
165°	162.4	165.4	162.4	158.3	155.2	153.2
167.5°	161.3	163.1	161.3	159.3	157.6	155.8
170°	161.3	162.3	161.3	159.3	159.3	158.3
172.5°	160.5	161.5	160.5	160.1	160.9	159.1
175°	160.3	159.3	160.3	161.3	162.3	161.3
177.5°	161.3	160.5	161.3	161.3	162.1	161.3
180°	161.3	161.3	161.3	161.3	161.3	161.3

(END OF REPORT)