

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: P621626

Luminaire Tested: VLT-FA-075U-050D-835-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621626  
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-050D-835-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

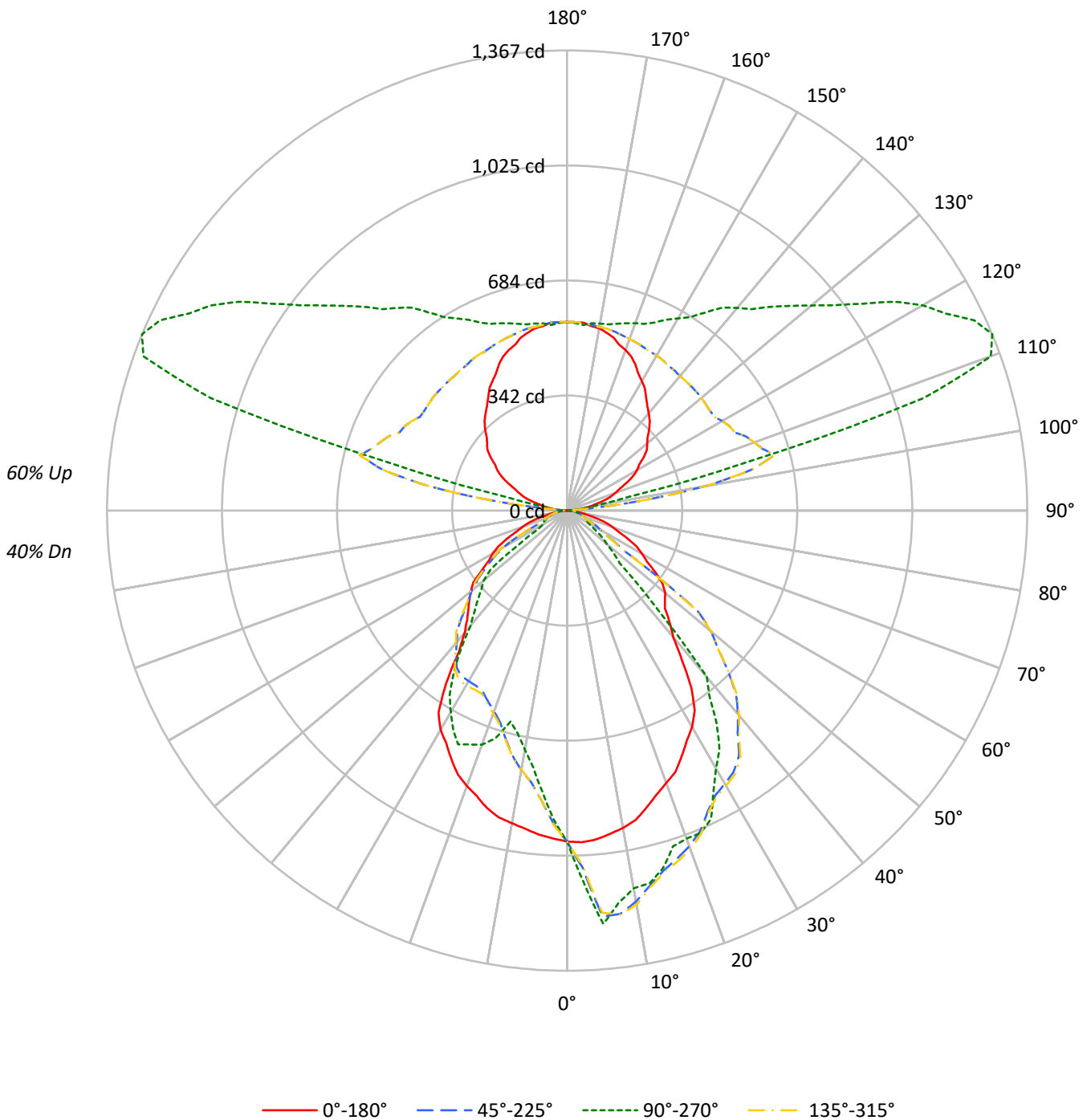
Lumens per Lamp: N/A  
Luminaire Lumens: 5037.9 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 35.2  
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



TEST NUMBER: P621626  
CATALOG NUMBER: VLT-FA-075U-050D-835-UNV-STD-W-4

### 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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40				
1	96	92	89	85	88	84	81	79	69	67	65	55	54	53	43	42	41	35				
2	88	81	76	71	80	74	70	66	61	58	55	49	47	45	38	37	36	31				
3	81	72	65	60	74	66	60	55	55	51	47	44	41	39	35	33	31	27				
4	74	64	57	51	68	59	52	48	49	44	41	40	37	34	31	29	27	23				
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	21				
6	63	52	44	38	57	48	41	36	40	35	31	33	29	26	26	23	22	19				
7	58	47	39	34	53	43	36	32	36	31	27	30	26	23	24	21	19	17				
8	54	42	35	30	49	39	33	28	33	28	25	27	24	21	22	19	17	15				
9	50	39	32	27	46	36	30	25	30	25	22	25	22	19	20	18	16	14				
10	47	36	29	24	43	33	27	23	28	23	20	23	20	17	19	16	14	12				

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

	0°	90°	180°	270°
0°	7054	7054	7054	7054
5°	7066	8875	6958	6051
10°	6973	8299	6871	5254
15°	6783	8172	6805	4821
20°	6575	7919	6651	5651
25°	6374	8005	6445	6065
30°	6148	7325	6231	5726
35°	5633	6789	5493	5133
40°	4590	6042	4431	4178
45°	4171	2243	4212	3806
50°	4242	1708	4164	3617
55°	4003	1326	3866	2164
60°	3688	1019	3660	1206
65°	3396	1053	3328	1273
70°	3021	1112	2937	1322
75°	2578	1164	2468	1359
80°	1942	1198	1818	1405
85°	1317	1070	1153	1317

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7723 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	1.9
10°-20°	259.8	5.2
20°-30°	388.7	7.7
30°-40°	442.0	8.8
40°-50°	378.0	7.5
50°-60°	254.9	5.1
60°-70°	131.6	2.6
70°-80°	59.4	1.2
80°-90°	18.9	0.4
90°-100°	68.9	1.4
100°-110°	490.9	9.7
110°-120°	666.4	13.2
120°-130°	542.4	10.8
130°-140°	436.2	8.7
140°-150°	343.9	6.8
150°-160°	251.5	5.0
160°-170°	156.2	3.1
170°-180°	53.3	1.1
0°-30°	743.3	14.8
0°-40°	1185.3	23.5
0°-60°	1818.3	36.1
0°-90°	2028.2	40.3
90°-120°	1226.2	24.3
90°-150°	2548.7	50.6
90°-180°	3010.0	59.7
0°-180°	5037.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	983	983	983	983	983	
5°	981	1232	966	840	981	93
15°	913	1100	916	649	913	257
25°	805	1011	814	766	805	370
35°	643	775	627	586	643	393
45°	411	221	415	375	411	326
55°	320	106	309	173	320	285
65°	200	62	196	75	200	198
75°	93	42	89	49	93	99
85°	16	13	14	16	16	20
90°	0	11	0	11	0	2
95°	28	39	28	39	28	32
105°	109	539	109	539	109	115
115°	194	1336	194	1336	194	192
125°	278	1071	278	1071	278	247
135°	345	856	345	856	345	266
145°	409	719	409	719	409	257
155°	479	617	479	617	479	220
165°	532	574	532	574	532	149
175°	560	553	560	553	560	53
180°	560	560	560	560	560	



TEST NUMBER: P621626

CATALOG NUMBER: VLT-FA-075U-050D-835-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	986.2	1019.8	1062.2	1091.3	1103.8	1091.3	1055.0	1019.6	975.0	961.7	930.2
5°	981.0	1084.6	1210.0	1225.2	1232.0	1225.2	1199.0	1078.4	966.0	918.1	866.0
7.5°	969.0	1150.3	1208.6	1174.8	1175.0	1181.3	1210.4	1144.7	953.4	878.1	814.2
10°	957.0	1186.8	1179.0	1130.2	1139.0	1135.1	1188.0	1179.6	943.0	856.0	783.0
12.5°	941.0	1198.2	1139.8	1123.8	1133.4	1127.9	1145.6	1191.9	934.2	840.1	747.0
15°	913.0	1181.9	1107.0	1100.0	1100.0	1104.9	1112.0	1186.8	916.0	811.4	703.0
17.5°	884.2	1149.4	1084.2	1049.5	1045.8	1052.3	1092.4	1157.7	890.2	779.5	660.4
20°	861.0	1127.0	1061.0	1020.4	1037.0	1022.3	1070.0	1133.0	871.0	759.5	634.0
22.5°	840.2	1099.1	1031.4	1014.1	1036.2	1014.5	1039.6	1105.2	848.6	737.1	614.0
25°	805.0	1052.4	987.0	1003.2	1011.0	1003.2	991.0	1056.5	814.0	708.4	593.0
27.5°	770.0	1003.1	953.8	964.7	940.8	959.2	959.2	1003.3	778.4	675.0	586.6
30°	742.0	968.8	937.0	921.2	884.0	913.3	944.0	969.1	752.0	653.2	585.0
32.5°	705.2	937.5	920.2	865.5	841.6	861.5	928.0	936.9	711.2	633.6	583.4
35°	643.0	893.3	890.0	799.4	775.0	793.6	897.0	891.0	627.0	602.6	571.0
37.5°	559.6	853.9	832.2	732.7	693.8	727.8	838.8	849.7	527.4	574.1	542.0
40°	490.0	827.3	789.0	683.1	645.0	678.2	794.0	825.0	473.0	554.2	510.0
42.5°	450.8	803.8	743.4	630.6	394.6	622.6	748.4	800.8	439.4	528.4	482.0
45°	411.0	761.0	677.0	349.1	221.0	332.5	678.0	750.4	415.0	489.3	439.0
47.5°	393.6	708.4	607.6	210.3	186.6	204.2	607.0	696.9	393.8	450.1	398.0
50°	380.0	675.3	558.0	185.3	153.0	178.4	559.0	664.4	373.0	423.8	370.0
52.5°	357.6	635.7	486.8	153.5	132.2	149.8	475.0	623.2	351.4	395.2	334.8
55°	320.0	559.6	203.0	120.7	106.0	115.8	193.0	540.7	309.0	350.1	294.0
57.5°	280.2	476.3	142.4	93.9	82.2	93.0	141.4	457.3	275.0	296.5	256.4
60°	257.0	420.3	116.0	78.8	71.0	77.8	115.0	403.6	255.0	260.9	222.0
62.5°	233.8	363.5	96.0	69.3	67.0	68.4	95.8	345.2	230.2	230.6	156.4
65°	200.0	275.3	71.0	63.0	62.0	62.0	69.0	265.4	196.0	190.1	90.0
67.5°	165.6	197.7	57.0	58.0	57.0	57.0	56.0	192.1	161.6	151.6	68.0
70°	144.0	151.8	53.0	54.0	53.0	53.0	52.0	147.8	140.0	117.5	64.0
72.5°	123.2	103.6	49.0	49.2	49.0	49.0	48.0	97.3	119.2	82.6	58.4
75°	93.0	51.9	42.0	42.0	42.0	42.0	41.0	49.9	89.0	53.8	50.0
77.5°	64.6	34.3	34.8	34.6	34.6	33.8	33.8	34.0	60.8	37.1	40.4
80°	47.0	28.4	30.0	29.0	29.0	29.0	29.0	27.4	44.0	31.3	34.0
82.5°	33.4	22.6	24.4	23.4	23.4	23.4	23.4	22.4	30.4	25.5	27.6
85°	16.0	15.0	16.0	14.0	13.0	14.0	15.0	15.0	14.0	16.9	18.0
87.5°	4.8	7.8	7.8	6.9	6.9	6.9	7.0	7.0	4.0	8.6	8.6
90°	0.0	3.4	7.0	10.6	10.6	10.6	7.0	3.4	0.0	3.4	7.0
92.5°	8.5	11.9	15.5	21.9	24.7	21.9	15.5	11.9	8.5	11.9	15.5
95°	28.2	52.3	28.2	31.9	38.8	31.9	28.2	52.3	28.2	52.3	28.2
97.5°	50.0	100.3	207.2	61.1	52.9	61.1	207.2	100.3	50.0	100.3	207.2
100°	67.0	125.5	415.8	122.4	81.0	122.4	415.8	125.5	67.0	125.5	415.8
102.5°	83.9	145.2	562.4	323.0	176.9	323.0	562.4	145.2	83.9	145.2	562.4
105°	109.2	167.8	637.8	814.8	539.1	814.8	637.8	167.8	109.2	167.8	637.8
107.5°	134.6	178.7	608.9	1185.8	1110.7	1185.8	608.9	178.7	134.6	178.7	608.9
110°	151.5	192.9	592.0	1246.0	1339.0	1246.0	592.0	192.9	151.5	192.9	592.0



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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°	168.4	209.8	575.1	1210.8	1367.2	1210.8	575.1	209.8	168.4	209.8	575.1
115°	193.8	235.2	549.7	1142.6	1335.5	1142.6	549.7	235.2	193.8	235.2	549.7
117.5°	219.9	260.5	543.4	1068.7	1267.1	1068.7	543.4	260.5	219.9	260.5	543.4
120°	239.6	277.5	532.1	1012.5	1219.2	1012.5	532.1	277.5	239.6	277.5	532.1
122.5°	253.7	294.4	518.0	964.2	1154.4	964.2	518.0	294.4	253.7	294.4	518.0
125°	278.4	316.3	518.0	905.8	1071.2	905.8	518.0	316.3	278.4	316.3	518.0
127.5°	298.8	337.4	518.7	838.1	1001.5	838.1	518.7	337.4	298.8	337.4	518.7
130°	310.1	351.4	521.5	792.8	947.9	792.8	521.5	351.4	310.1	351.4	521.5
132.5°	324.2	365.5	521.5	772.5	900.0	772.5	521.5	365.5	324.2	365.5	521.5
135°	345.3	383.2	521.5	746.0	856.3	746.0	521.5	383.2	345.3	383.2	521.5
137.5°	362.9	403.6	521.5	716.8	811.2	716.8	521.5	403.6	362.9	403.6	521.5
140°	377.0	414.9	521.5	699.7	785.8	699.7	521.5	414.9	377.0	414.9	521.5
142.5°	391.1	426.3	524.3	679.8	760.4	679.8	524.3	426.3	391.1	426.3	524.3
145°	408.8	443.2	525.0	649.9	718.8	649.9	525.0	443.2	408.8	443.2	525.0
147.5°	429.9	460.2	529.3	628.4	681.5	628.4	529.3	460.2	429.9	460.2	529.3
150°	444.0	471.6	532.1	614.2	658.9	614.2	532.1	471.6	444.0	471.6	532.1
152.5°	458.1	482.9	532.1	602.7	639.2	602.7	532.1	482.9	458.1	482.9	532.1
155°	479.2	496.5	535.6	589.1	616.7	589.1	535.6	496.5	479.2	496.5	535.6
157.5°	496.1	512.7	539.8	580.5	600.4	580.5	539.8	512.7	496.1	512.7	539.8
160°	507.4	521.2	542.7	574.8	592.0	574.8	542.7	521.2	507.4	521.2	542.7
162.5°	515.9	529.7	545.5	571.8	583.5	571.8	545.5	529.7	515.9	529.7	545.5
165°	532.1	539.0	549.7	564.0	574.4	564.0	549.7	539.0	532.1	539.0	549.7
167.5°	541.2	547.5	553.2	560.4	566.6	560.4	553.2	547.5	541.2	547.5	553.2
170°	549.7	553.2	553.2	560.4	563.8	560.4	553.2	553.2	549.7	553.2	553.2
172.5°	552.5	558.7	556.0	557.5	561.0	557.5	556.0	558.7	552.5	558.7	556.0
175°	560.3	563.7	560.3	556.7	553.2	556.7	560.3	563.7	560.3	563.7	560.3
177.5°	560.3	563.0	560.3	560.2	557.5	560.2	560.3	563.0	560.3	563.0	560.3
180°	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	919.0	918.2	919.8	933.4	961.2	986.2
5°	837.1	840.0	842.9	866.0	914.5	981.0
7.5°	774.1	769.8	776.5	814.0	873.6	969.0
10°	730.8	721.0	730.8	782.0	851.4	957.0
12.5°	689.9	677.8	693.1	749.2	833.1	941.0
15°	637.3	649.0	642.2	705.0	805.4	913.0
17.5°	649.7	708.8	662.3	666.6	778.0	884.2
20°	679.4	740.0	698.9	641.0	760.3	861.0
22.5°	706.2	752.0	714.8	619.4	742.6	840.2
25°	726.9	766.0	724.9	600.0	717.0	805.0
27.5°	727.9	733.4	728.3	598.4	685.3	770.0
30°	714.5	691.0	712.5	600.0	662.8	742.0
32.5°	676.0	649.4	667.8	596.8	640.1	705.2
35°	621.2	586.0	611.4	580.0	604.9	643.0
37.5°	563.4	518.8	554.0	546.8	574.9	559.6
40°	524.2	446.0	516.4	514.0	558.4	490.0
42.5°	474.1	407.6	467.0	487.6	540.4	450.8
45°	382.8	375.0	378.9	443.0	501.9	411.0
47.5°	350.1	344.8	348.1	402.4	458.5	393.6
50°	330.8	324.0	328.9	376.0	430.8	380.0
52.5°	304.2	285.6	302.2	340.0	402.2	357.6
55°	228.7	173.0	227.8	299.0	359.1	320.0
57.5°	134.2	100.0	131.3	260.2	304.3	280.2
60°	90.8	84.0	91.8	229.0	267.8	257.0
62.5°	83.0	80.8	83.1	159.4	235.2	233.8
65°	76.0	75.0	76.0	92.0	194.1	200.0
67.5°	68.8	67.8	69.6	70.6	153.3	165.6
70°	64.0	63.0	64.0	65.0	117.6	144.0
72.5°	58.4	57.4	58.4	59.4	82.7	123.2
75°	50.0	49.0	50.0	51.0	54.9	93.0
77.5°	40.4	40.4	41.4	41.4	38.4	64.6
80°	34.0	34.0	35.0	35.0	33.3	47.0
82.5°	27.6	26.8	28.6	29.4	27.5	33.4
85°	17.0	16.0	18.0	19.0	18.0	16.0
87.5°	8.5	7.7	9.3	10.2	9.4	4.8
90°	10.6	10.6	10.6	7.0	3.4	0.0
92.5°	21.9	24.7	21.9	15.5	11.9	8.5
95°	31.9	38.8	31.9	28.2	52.3	28.2
97.5°	61.1	52.9	61.1	207.2	100.3	50.0
100°	122.4	81.0	122.4	415.8	125.5	67.0
102.5°	323.0	176.9	323.0	562.4	145.2	83.9
105°	814.8	539.1	814.8	637.8	167.8	109.2
107.5°	1185.8	1110.7	1185.8	608.9	178.7	134.6
110°	1246.0	1339.0	1246.0	592.0	192.9	151.5





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1210.8	1367.2	1210.8	575.1	209.8	168.4
115°	1142.6	1335.5	1142.6	549.7	235.2	193.8
117.5°	1068.7	1267.1	1068.7	543.4	260.5	219.9
120°	1012.5	1219.2	1012.5	532.1	277.5	239.6
122.5°	964.2	1154.4	964.2	518.0	294.4	253.7
125°	905.8	1071.2	905.8	518.0	316.3	278.4
127.5°	838.1	1001.5	838.1	518.7	337.4	298.8
130°	792.8	947.9	792.8	521.5	351.4	310.1
132.5°	772.5	900.0	772.5	521.5	365.5	324.2
135°	746.0	856.3	746.0	521.5	383.2	345.3
137.5°	716.8	811.2	716.8	521.5	403.6	362.9
140°	699.7	785.8	699.7	521.5	414.9	377.0
142.5°	679.8	760.4	679.8	524.3	426.3	391.1
145°	649.9	718.8	649.9	525.0	443.2	408.8
147.5°	628.4	681.5	628.4	529.3	460.2	429.9
150°	614.2	658.9	614.2	532.1	471.6	444.0
152.5°	602.7	639.2	602.7	532.1	482.9	458.1
155°	589.1	616.7	589.1	535.6	496.5	479.2
157.5°	580.5	600.4	580.5	539.8	512.7	496.1
160°	574.8	592.0	574.8	542.7	521.2	507.4
162.5°	571.8	583.5	571.8	545.5	529.7	515.9
165°	564.0	574.4	564.0	549.7	539.0	532.1
167.5°	560.4	566.6	560.4	553.2	547.5	541.2
170°	560.4	563.8	560.4	553.2	553.2	549.7
172.5°	557.5	561.0	557.5	556.0	558.7	552.5
175°	556.7	553.2	556.7	560.3	563.7	560.3
177.5°	560.2	557.5	560.2	560.3	563.0	560.3
180°	560.3	560.3	560.3	560.3	560.3	560.3

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