

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: P621710

Luminaire Tested: VLT-FA-125U-100D-835-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621710  
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-100D-835-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

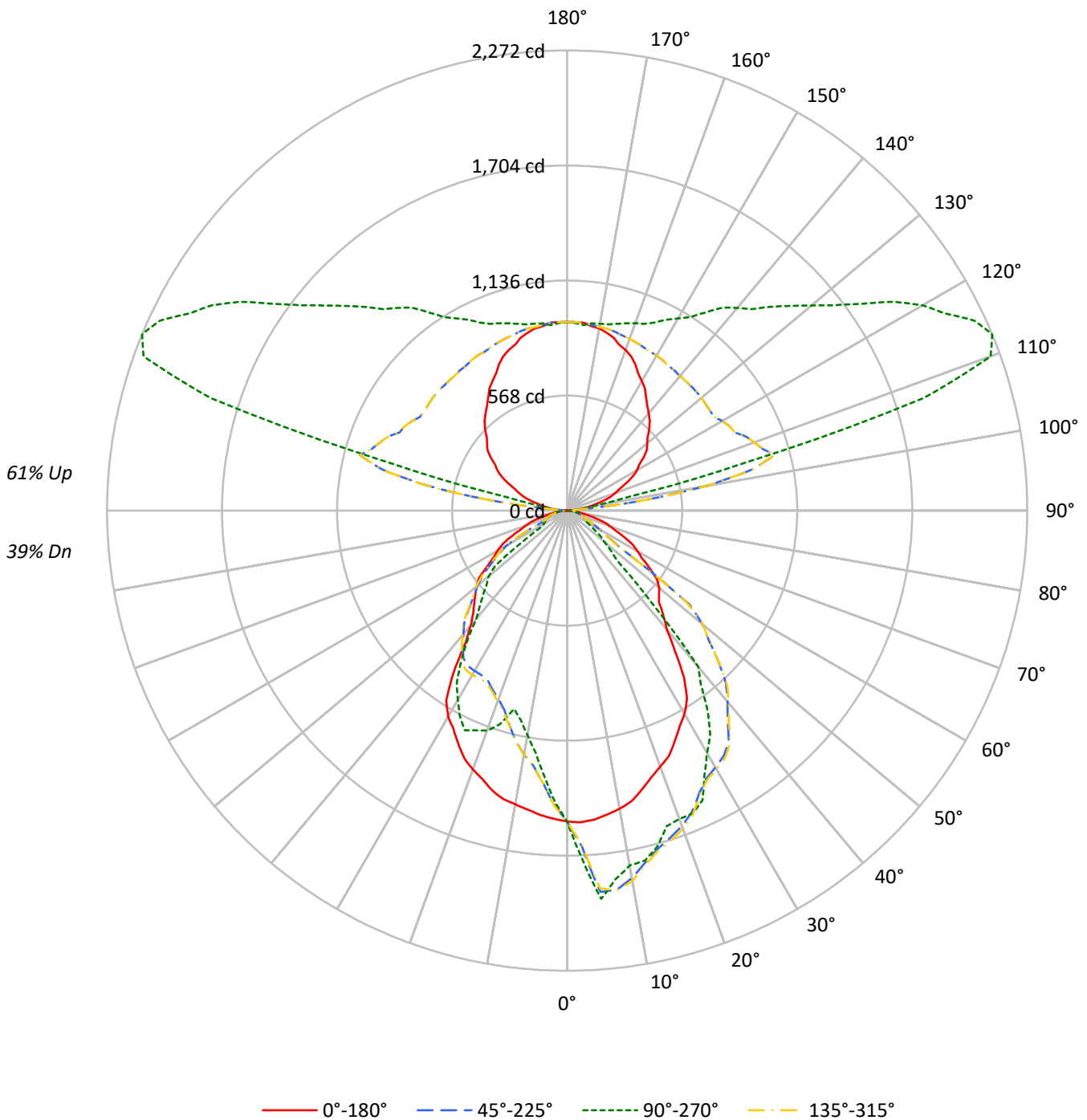
Lumens per Lamp: N/A  
Luminaire Lumens: 8169.5 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 67.4  
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	84	81	78	68	66	65	54	53	52	41	41	40	34
2	88	81	75	71	80	74	69	65	61	57	54	49	46	44	37	36	35	30
3	81	72	65	59	73	66	60	55	54	50	46	43	41	38	34	32	30	26
4	74	64	56	51	67	58	52	47	48	44	40	39	36	33	30	28	26	23
5	68	57	49	44	62	52	46	41	44	39	35	35	32	29	28	25	23	20
6	63	51	44	38	57	47	40	36	39	34	31	32	28	26	25	23	21	18
7	58	46	39	34	53	43	36	31	36	31	27	29	26	23	23	21	19	16
8	54	42	35	30	49	39	32	28	33	28	24	27	23	20	21	19	17	14
9	50	39	31	27	46	36	29	25	30	25	22	25	21	18	20	17	15	13
10	47	35	28	24	43	33	27	22	28	23	20	23	19	17	18	16	14	12

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

	0°	90°	180°	270°
0°	11018	11018	11018	11018
5°	11037	13861	10868	9451
10°	10892	12963	10732	8205
15°	10594	12764	10629	7531
20°	10270	12369	10389	8826
25°	9955	12503	10067	9473
30°	9603	11441	9733	8943
35°	8798	10604	8579	8018
40°	7169	9437	6921	6525
45°	6515	3503	6578	5944
50°	6626	2668	6504	5650
55°	6253	2072	6038	3380
60°	5761	1592	5716	1883
65°	5304	1644	5197	1988
70°	4719	1737	4589	2065
75°	4029	1819	3854	2121
80°	3033	1872	2839	2194
85°	2058	1671	1803	2058

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12063 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	1.8
10°-20°	405.7	5.0
20°-30°	607.1	7.4
30°-40°	690.4	8.5
40°-50°	590.5	7.2
50°-60°	398.2	4.9
60°-70°	205.5	2.5
70°-80°	92.8	1.1
80°-90°	29.7	0.4
90°-100°	114.5	1.4
100°-110°	815.7	10.0
110°-120°	1107.4	13.6
120°-130°	901.3	11.0
130°-140°	724.9	8.9
140°-150°	571.5	7.0
150°-160°	417.9	5.1
160°-170°	259.6	3.2
170°-180°	88.5	1.1
0°-30°	1160.9	14.2
0°-40°	1851.4	22.7
0°-60°	2840.1	34.8
0°-90°	3168.1	38.8
90°-120°	2037.7	24.9
90°-150°	4235.4	51.8
90°-180°	5001.0	61.2
0°-180°	8169.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1535	1535	1535	1535	1535	
5°	1532	1924	1509	1312	1532	145
15°	1426	1718	1431	1014	1426	401
25°	1257	1579	1271	1196	1257	579
35°	1004	1210	979	915	1004	614
45°	642	345	648	586	642	509
55°	500	166	483	270	500	445
65°	312	97	306	117	312	309
75°	145	66	139	76	145	155
85°	25	20	22	25	25	32
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°	1535.4	1535.4	1535.4	1535.4	1535.4	1535.4	1535.4	1535.4	1535.4	1535.4	1535.4
2.5°	1540.4	1592.9	1659.1	1704.5	1724.0	1704.5	1647.8	1592.5	1522.9	1502.1	1452.9
5°	1532.2	1694.1	1889.9	1913.6	1924.3	1913.6	1872.7	1684.4	1508.8	1434.0	1352.6
7.5°	1513.5	1796.6	1887.7	1835.0	1835.3	1845.0	1890.6	1787.9	1489.1	1371.5	1271.7
10°	1494.8	1853.7	1841.5	1765.3	1779.0	1772.9	1855.6	1842.5	1472.9	1337.0	1223.0
12.5°	1469.8	1871.4	1780.3	1755.3	1770.3	1761.7	1789.3	1861.7	1459.1	1312.2	1166.8
15°	1426.0	1846.0	1729.0	1718.1	1718.1	1725.8	1736.9	1853.8	1430.7	1267.3	1098.0
17.5°	1381.1	1795.2	1693.4	1639.3	1633.5	1643.5	1706.2	1808.3	1390.4	1217.5	1031.5
20°	1344.8	1760.2	1657.2	1593.8	1619.7	1596.8	1671.3	1769.7	1360.4	1186.3	990.3
22.5°	1312.3	1716.7	1611.0	1583.9	1618.5	1584.6	1623.8	1726.2	1325.4	1151.3	959.0
25°	1257.3	1643.7	1541.6	1566.9	1579.1	1566.9	1547.9	1650.2	1271.4	1106.5	926.2
27.5°	1202.7	1566.8	1489.8	1506.7	1469.5	1498.2	1498.2	1567.1	1215.8	1054.2	916.2
30°	1158.9	1513.3	1463.5	1438.8	1380.7	1426.6	1474.5	1513.6	1174.6	1020.3	913.7
32.5°	1101.5	1464.3	1437.3	1351.8	1314.5	1345.7	1449.5	1463.3	1110.8	989.6	911.2
35°	1004.3	1395.3	1390.1	1248.7	1210.5	1239.5	1401.0	1391.7	979.3	941.1	891.9
37.5°	874.1	1333.7	1299.8	1144.4	1083.7	1136.8	1310.1	1327.1	823.8	896.8	846.6
40°	765.3	1292.2	1232.4	1067.0	1007.4	1059.4	1240.2	1288.6	738.8	865.5	796.6
42.5°	704.1	1255.4	1161.1	985.0	616.3	972.5	1168.9	1250.8	686.3	825.3	752.8
45°	642.0	1188.7	1057.4	545.2	345.2	519.3	1059.0	1172.0	648.2	764.3	685.7
47.5°	614.8	1106.5	949.0	328.4	291.5	318.9	948.1	1088.5	615.1	703.1	621.6
50°	593.5	1054.7	871.6	289.4	239.0	278.7	873.1	1037.7	582.6	662.0	577.9
52.5°	558.5	992.9	760.3	239.8	206.5	234.0	741.9	973.4	548.9	617.3	522.9
55°	499.8	874.0	317.1	188.5	165.6	180.8	301.5	844.6	482.6	546.8	459.2
57.5°	437.7	744.0	222.4	146.7	128.4	145.2	220.9	714.2	429.5	463.1	400.5
60°	401.4	656.5	181.2	123.1	110.9	121.6	179.6	630.4	398.3	407.5	346.7
62.5°	365.2	567.7	149.9	108.3	104.6	106.8	149.6	539.2	359.6	360.2	244.3
65°	312.4	430.0	110.9	98.4	96.8	96.8	107.8	414.6	306.1	297.0	140.6
67.5°	258.7	308.7	89.0	90.6	89.0	89.0	87.5	300.1	252.4	236.8	106.2
70°	224.9	237.1	82.8	84.3	82.8	82.8	81.2	230.9	218.7	183.5	100.0
72.5°	192.4	161.9	76.5	76.8	76.5	76.5	75.0	152.0	186.2	129.1	91.2
75°	145.3	81.1	65.6	65.6	65.6	65.6	64.0	77.9	139.0	84.0	78.1
77.5°	100.9	53.6	54.4	54.0	54.0	52.8	52.8	53.1	95.0	58.0	63.1
80°	73.4	44.4	46.9	45.3	45.3	45.3	45.3	42.8	68.7	48.9	53.1
82.5°	52.2	35.4	38.1	36.5	36.5	36.5	36.5	35.0	47.5	39.8	43.1
85°	25.0	23.5	25.0	21.8	20.3	21.8	23.4	23.4	21.9	26.4	28.1
87.5°	7.5	12.3	12.3	11.0	11.0	11.0	11.1	11.1	6.2	13.5	13.6
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°	1535.4	1535.4	1535.4	1535.4	1535.4	1535.4
2.5°	1435.4	1434.2	1436.6	1457.9	1501.3	1540.4
5°	1307.4	1312.0	1316.6	1352.6	1428.4	1532.2
7.5°	1209.1	1202.4	1212.8	1271.4	1364.4	1513.5
10°	1141.4	1126.1	1141.4	1221.4	1329.8	1494.8
12.5°	1077.6	1058.7	1082.5	1170.2	1301.2	1469.8
15°	995.4	1013.7	1003.0	1101.2	1258.0	1426.0
17.5°	1014.8	1107.1	1034.4	1041.2	1215.2	1381.1
20°	1061.1	1155.8	1091.7	1001.2	1187.5	1344.8
22.5°	1103.1	1174.6	1116.5	967.5	1159.9	1312.3
25°	1135.3	1196.4	1132.3	937.2	1119.9	1257.3
27.5°	1137.0	1145.5	1137.6	934.7	1070.4	1202.7
30°	1115.9	1079.3	1112.9	937.2	1035.2	1158.9
32.5°	1055.9	1014.3	1043.0	932.2	999.8	1101.5
35°	970.3	915.3	955.0	905.9	944.8	1004.3
37.5°	880.0	810.3	865.3	854.1	897.9	874.1
40°	818.8	696.6	806.6	802.8	872.2	765.3
42.5°	740.5	636.6	729.5	761.6	844.0	704.1
45°	597.9	585.7	591.8	691.9	784.0	642.0
47.5°	546.8	538.6	543.7	628.5	716.2	614.8
50°	516.8	506.1	513.7	587.3	672.9	593.5
52.5°	475.1	446.1	472.0	531.1	628.2	558.5
55°	357.3	270.2	355.7	467.0	560.9	499.8
57.5°	209.6	156.2	205.1	406.4	475.2	437.7
60°	141.9	131.2	143.4	357.7	418.2	401.4
62.5°	129.6	126.2	129.9	249.0	367.3	365.2
65°	118.7	117.1	118.7	143.7	303.2	312.4
67.5°	107.4	105.9	108.6	110.3	239.4	258.7
70°	99.9	98.4	99.9	101.5	183.7	224.9
72.5°	91.2	89.7	91.2	92.8	129.2	192.4
75°	78.1	76.5	78.1	79.7	85.7	145.3
77.5°	63.1	63.1	64.6	64.7	60.0	100.9
80°	53.1	53.1	54.6	54.7	52.0	73.4
82.5°	43.1	41.9	44.6	45.9	43.0	52.2
85°	26.5	25.0	28.0	29.7	28.0	25.0
87.5°	13.5	12.3	14.7	16.1	14.8	7.5
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





TEST NUMBER: P621710

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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

(END OF REPORT)