

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: P621716

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

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621716  
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-125D-835-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

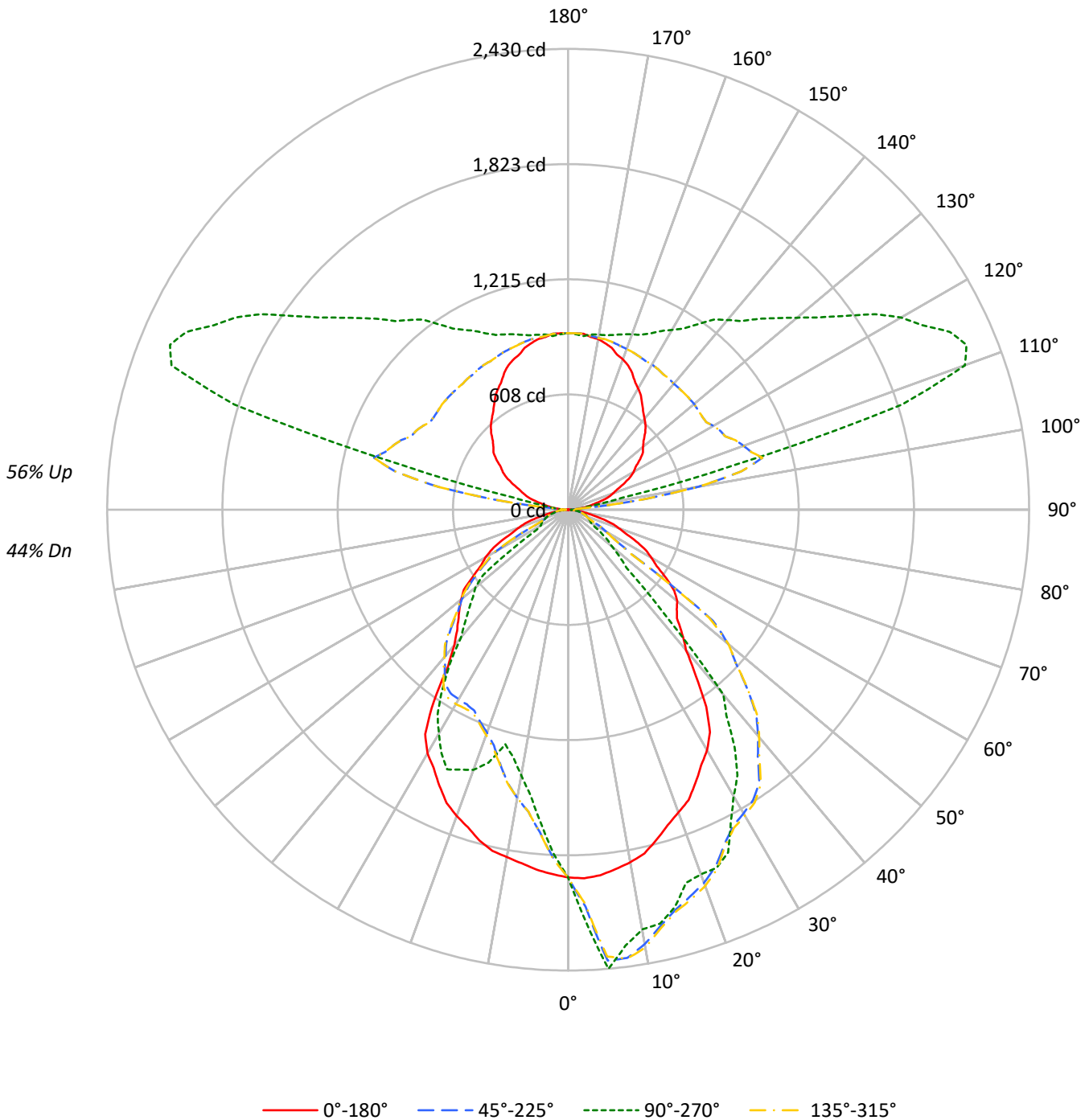
Lumens per Lamp: N/A  
Luminaire Lumens: 9001.9 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 76.9  
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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	93	90	86	89	86	83	80	71	69	67	58	57	56	46	45	45	39				
2	89	82	77	72	82	76	71	67	63	60	57	52	50	48	42	40	39	34				
3	82	73	66	61	75	67	61	57	57	52	49	47	44	41	38	35	34	29				
4	75	65	58	52	69	60	54	49	51	46	42	42	39	36	34	32	30	26				
5	69	58	51	45	63	54	47	42	46	41	37	38	34	31	31	28	26	23				
6	64	52	45	39	59	49	42	37	41	36	32	35	31	28	28	25	23	20				
7	59	47	40	35	54	44	37	33	38	32	29	32	28	25	26	23	21	18				
8	55	43	36	31	50	40	34	29	34	29	26	29	25	22	24	21	19	17				
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	22	19	17	15				
10	48	36	29	25	44	34	28	23	29	24	21	25	21	18	21	18	16	14				

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

	0°	90°	180°	270°
0°	13915	13915	13915	13915
5°	13939	17506	13726	11936
10°	13756	16372	13554	10363
15°	13380	16120	13424	9511
20°	12970	15621	13120	11147
25°	12573	15790	12714	11964
30°	12128	14449	12292	11295
35°	11111	13393	10835	10126
40°	9055	11918	8740	8242
45°	8227	4424	8307	7507
50°	8368	3369	8214	7135
55°	7897	2616	7625	4270
60°	7276	2011	7219	2378
65°	6699	2077	6564	2511
70°	5961	2193	5795	2608
75°	5088	2296	4869	2681
80°	3831	2364	3587	2773
85°	2602	2108	2272	2602

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 15235 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.1	2.1
10°-20°	512.4	5.7
20°-30°	766.7	8.5
30°-40°	872.0	9.7
40°-50°	745.7	8.3
50°-60°	502.9	5.6
60°-70°	259.6	2.9
70°-80°	117.2	1.3
80°-90°	37.0	0.4
90°-100°	114.5	1.3
100°-110°	815.7	9.1
110°-120°	1107.4	12.3
120°-130°	901.3	10.0
130°-140°	724.9	8.1
140°-150°	571.5	6.3
150°-160°	417.9	4.6
160°-170°	259.6	2.9
170°-180°	88.5	1.0
0°-30°	1466.2	16.3
0°-40°	2338.2	26.0
0°-60°	3586.8	39.8
0°-90°	4000.5	44.4
90°-120°	2037.7	22.6
90°-150°	4235.4	47.1
90°-180°	5001.0	55.6
0°-180°	9001.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1939	1939	1939	1939	1939	
5°	1935	2430	1906	1657	1935	183
15°	1801	2170	1807	1280	1801	507
25°	1588	1994	1606	1511	1588	731
35°	1268	1529	1237	1156	1268	775
45°	811	436	819	740	811	643
55°	631	209	610	341	631	562
65°	394	122	387	148	394	390
75°	184	83	176	97	184	196
85°	32	26	28	32	32	40
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°	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1
2.5°	1945.4	2011.7	2095.3	2152.7	2177.3	2152.7	2081.1	2011.2	1923.3	1897.0	1834.9
5°	1935.1	2139.6	2386.8	2416.7	2430.2	2416.7	2365.1	2127.3	1905.5	1811.0	1708.3
7.5°	1911.4	2269.0	2384.1	2317.4	2317.8	2330.1	2387.6	2257.9	1880.7	1732.1	1606.1
10°	1887.8	2341.0	2325.7	2229.4	2246.8	2239.1	2343.4	2326.9	1860.1	1688.5	1544.5
12.5°	1856.2	2363.5	2248.4	2216.8	2235.7	2224.9	2259.8	2351.2	1842.8	1657.2	1473.5
15°	1801.0	2331.4	2183.7	2169.8	2169.8	2179.5	2193.5	2341.2	1806.9	1600.5	1386.7
17.5°	1744.2	2267.2	2138.7	2070.3	2062.9	2075.7	2154.9	2283.7	1756.0	1537.7	1302.7
20°	1698.4	2223.0	2092.9	2012.8	2045.6	2016.6	2110.7	2235.0	1718.1	1498.2	1250.6
22.5°	1657.4	2168.1	2034.5	2000.4	2044.0	2001.2	2050.7	2180.0	1673.9	1454.1	1211.2
25°	1587.9	2075.9	1946.9	1978.9	1994.3	1978.9	1954.8	2084.0	1605.7	1397.4	1169.7
27.5°	1518.9	1978.7	1881.5	1902.9	1855.8	1892.1	1892.1	1979.1	1535.5	1331.4	1157.1
30°	1463.7	1911.1	1848.3	1817.1	1743.8	1801.6	1862.1	1911.6	1483.4	1288.6	1154.0
32.5°	1391.1	1849.3	1815.2	1707.2	1660.1	1699.5	1830.6	1848.1	1402.9	1249.8	1150.8
35°	1268.4	1762.1	1755.6	1577.0	1528.8	1565.4	1769.4	1757.6	1236.8	1188.6	1126.3
37.5°	1103.9	1684.4	1641.6	1445.3	1368.6	1435.7	1654.6	1676.1	1040.3	1132.5	1069.1
40°	966.6	1632.0	1556.4	1347.5	1272.3	1337.9	1566.2	1627.4	933.0	1093.1	1006.0
42.5°	889.2	1585.5	1466.4	1244.0	778.4	1228.2	1476.3	1579.6	866.8	1042.3	950.8
45°	810.7	1501.2	1335.4	688.6	435.9	655.8	1337.4	1480.2	818.6	965.2	866.0
47.5°	776.4	1397.5	1198.5	414.8	368.1	402.8	1197.4	1374.7	776.8	887.9	785.1
50°	749.6	1332.1	1100.7	365.5	301.8	352.0	1102.7	1310.5	735.8	836.1	729.9
52.5°	705.4	1253.9	960.3	302.8	260.8	295.5	937.0	1229.4	693.2	779.6	660.4
55°	631.2	1103.8	400.4	238.0	209.1	228.4	380.7	1066.6	609.5	690.5	579.9
57.5°	552.7	939.6	280.9	185.3	162.1	183.4	278.9	902.0	542.5	584.9	505.8
60°	507.0	829.1	228.8	155.5	140.1	153.6	226.8	796.2	503.0	514.6	437.9
62.5°	461.2	716.9	189.4	136.8	132.2	134.9	189.0	680.9	454.1	454.9	308.5
65°	394.5	543.0	140.1	124.2	122.3	122.3	136.1	523.6	386.6	375.1	177.5
67.5°	326.7	389.9	112.4	114.4	112.4	112.4	110.5	378.9	318.8	299.1	134.1
70°	284.1	299.5	104.5	106.5	104.5	104.5	102.6	291.6	276.2	231.8	126.2
72.5°	243.0	204.4	96.7	97.0	96.7	96.7	94.7	191.9	235.1	163.0	115.2
75°	183.5	102.4	82.8	82.8	82.8	82.8	80.9	98.4	175.6	106.1	98.6
77.5°	127.4	67.6	68.6	68.3	68.3	66.7	66.7	67.1	119.9	73.3	79.7
80°	92.7	56.1	59.2	57.2	57.2	57.2	57.2	54.0	86.8	61.7	67.1
82.5°	65.9	44.7	48.1	46.2	46.2	46.2	46.2	44.2	60.0	50.3	54.4
85°	31.6	29.6	31.6	27.6	25.6	27.6	29.6	29.5	27.6	33.4	35.5
87.5°	9.5	15.2	15.0	13.0	13.0	13.0	13.4	13.7	7.9	16.8	16.5
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°	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1
2.5°	1812.8	1811.2	1814.3	1841.2	1896.0	1945.4
5°	1651.2	1657.0	1662.8	1708.3	1804.0	1935.1
7.5°	1527.0	1518.5	1531.6	1605.7	1723.2	1911.4
10°	1441.5	1422.2	1441.5	1542.6	1679.5	1887.8
12.5°	1360.9	1337.0	1367.1	1477.9	1643.3	1856.2
15°	1257.1	1280.2	1266.7	1390.7	1588.8	1801.0
17.5°	1281.7	1398.2	1306.4	1314.9	1534.7	1744.2
20°	1340.1	1459.7	1378.7	1264.4	1499.7	1698.4
22.5°	1393.1	1483.4	1410.1	1221.8	1464.9	1657.4
25°	1433.9	1511.0	1430.0	1183.6	1414.3	1587.9
27.5°	1435.9	1446.7	1436.7	1180.4	1351.9	1518.9
30°	1409.3	1363.1	1405.5	1183.6	1307.4	1463.7
32.5°	1333.5	1281.0	1317.3	1177.2	1262.6	1391.1
35°	1225.4	1155.9	1206.1	1144.1	1193.2	1268.4
37.5°	1111.3	1023.4	1092.8	1078.6	1133.9	1103.9
40°	1034.1	879.8	1018.6	1013.9	1101.6	966.6
42.5°	935.2	804.0	921.3	961.8	1065.9	889.2
45°	755.1	739.7	747.4	873.9	990.1	810.7
47.5°	690.6	680.1	686.7	793.8	904.5	776.4
50°	652.6	639.1	648.8	741.7	849.9	749.6
52.5°	600.0	563.4	596.2	670.7	793.3	705.4
55°	451.2	341.3	449.3	589.8	708.4	631.2
57.5°	264.8	197.3	259.0	513.3	600.2	552.7
60°	179.2	165.7	181.1	451.7	528.2	507.0
62.5°	163.6	159.4	164.0	314.4	463.9	461.2
65°	149.9	147.9	149.9	181.5	382.9	394.5
67.5°	135.7	133.7	137.2	139.3	302.4	326.7
70°	126.2	124.3	126.2	128.2	232.0	284.1
72.5°	115.2	113.2	115.2	117.2	163.2	243.0
75°	98.6	96.7	98.6	100.6	108.2	183.5
77.5°	79.7	79.7	81.6	81.7	75.7	127.4
80°	67.1	67.1	69.0	69.0	65.7	92.7
82.5°	54.4	52.9	56.3	58.0	54.3	65.9
85°	33.5	31.6	35.4	37.5	35.4	31.6
87.5°	16.1	14.6	17.6	19.7	18.3	9.5
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





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CATALOG NUMBER: VLT-FA-125U-125D-835-UNV-STD-W-4

**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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