

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: P621743

Luminaire Tested: VLT-FA-150U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621743  
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-150U-125D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

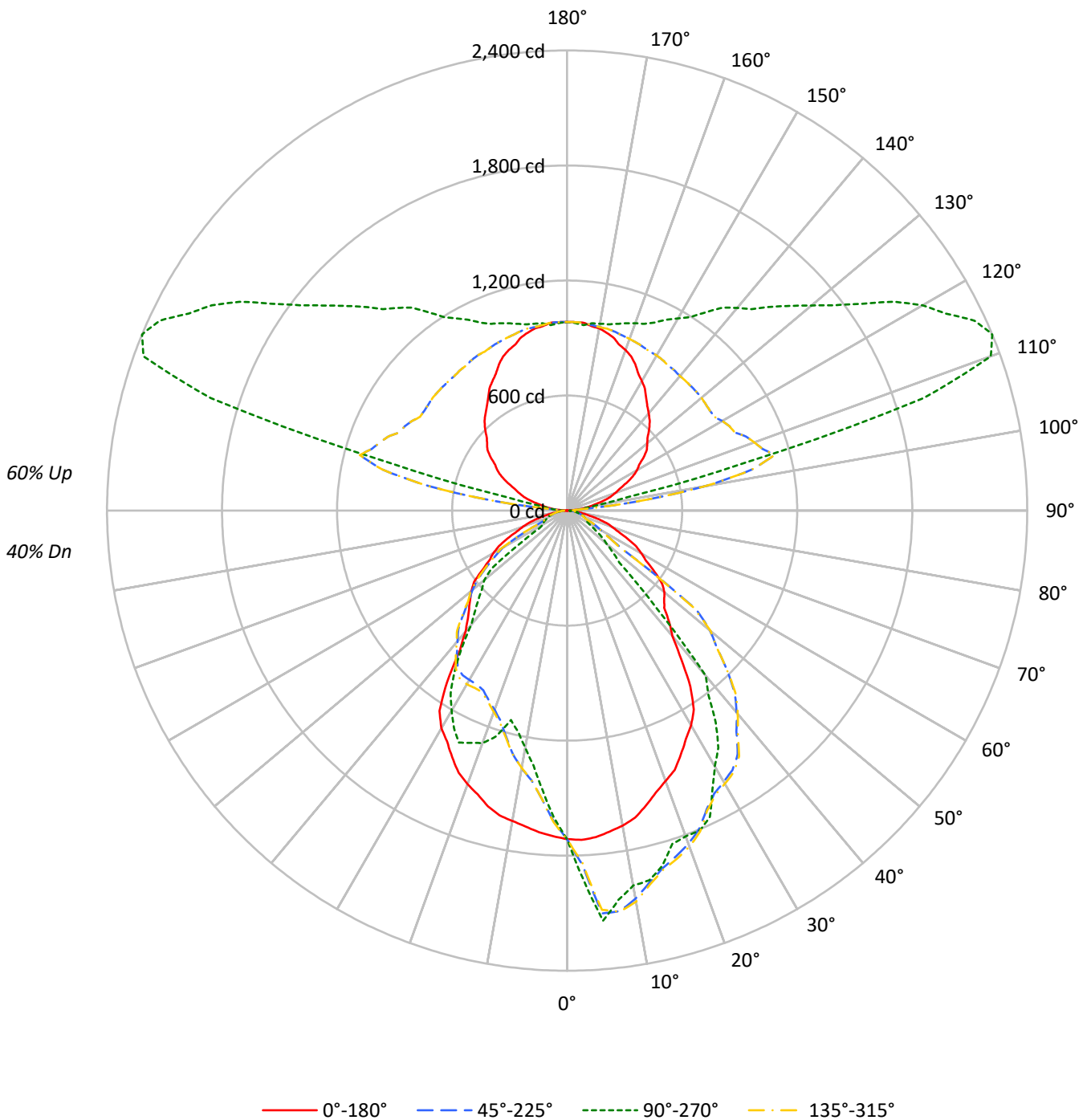
Lumens per Lamp: N/A  
Luminaire Lumens: 8819.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 87.3  
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	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	78	69	67	65	55	54	53	43	42	41	35				
2	88	81	76	71	80	74	70	65	61	58	55	49	47	45	38	37	36	31				
3	81	72	65	60	73	66	60	55	55	50	47	44	41	39	35	33	31	27				
4	74	64	57	51	67	59	52	47	49	44	41	40	36	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	21	18				
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	24	27	24	21	22	19	17	15				
9	50	39	32	27	46	36	29	25	30	25	22	25	21	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°	12296	12296	12296	12296
5°	12318	15469	12129	10547
10°	12155	14467	11977	9158
15°	11823	14245	11862	8405
20°	11461	13804	11594	9850
25°	11110	13953	11235	10572
30°	10717	12768	10861	9981
35°	9818	11834	9574	8948
40°	8001	10532	7724	7282
45°	7270	3909	7341	6634
50°	7395	2977	7259	6305
55°	6979	2312	6738	3773
60°	6430	1777	6379	2101
65°	5919	1836	5800	2219
70°	5266	1939	5119	2304
75°	4494	2030	4300	2368
80°	3384	2087	3170	2451
85°	2297	1869	2009	2297

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 13463 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.3	1.9
10°-20°	452.8	5.1
20°-30°	677.5	7.7
30°-40°	770.5	8.7
40°-50°	659.0	7.5
50°-60°	444.4	5.0
60°-70°	229.4	2.6
70°-80°	103.6	1.2
80°-90°	33.0	0.4
90°-100°	120.9	1.4
100°-110°	861.8	9.8
110°-120°	1169.9	13.3
120°-130°	952.2	10.8
130°-140°	765.8	8.7
140°-150°	603.8	6.8
150°-160°	441.5	5.0
160°-170°	274.2	3.1
170°-180°	93.5	1.1
0°-30°	1295.6	14.7
0°-40°	2066.1	23.4
0°-60°	3169.5	35.9
0°-90°	3535.4	40.1
90°-120°	2152.6	24.4
90°-150°	4474.4	50.7
90°-180°	5284.0	59.9
0°-180°	8819.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1714	1714	1714	1714	1714	
5°	1710	2148	1684	1464	1710	162
15°	1591	1917	1597	1131	1591	448
25°	1403	1762	1419	1335	1403	646
35°	1121	1351	1093	1021	1121	685
45°	716	385	723	654	716	568
55°	558	185	539	302	558	497
65°	349	108	342	131	349	345
75°	162	73	155	85	162	173
85°	28	23	24	28	28	36
90°	0	19	0	19	0	3
95°	50	68	50	68	50	55
105°	192	946	192	946	192	202
115°	340	2344	340	2344	340	338
125°	489	1881	489	1881	489	434
135°	606	1503	606	1503	606	466
145°	718	1262	718	1262	718	451
155°	841	1083	841	1083	841	386
165°	934	1008	934	1008	934	262
175°	984	971	984	971	984	93
180°	984	984	984	984	984	



TEST NUMBER: P621743

CATALOG NUMBER: VLT-FA-150U-125D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5
2.5°	1719.0	1777.7	1851.5	1902.2	1924.0	1902.2	1839.0	1777.2	1699.5	1676.3	1621.4
5°	1710.0	1890.6	2109.1	2135.5	2147.5	2135.5	2090.0	1879.8	1683.8	1600.3	1509.5
7.5°	1689.0	2005.0	2106.7	2047.8	2048.1	2059.0	2109.8	1995.2	1661.9	1530.6	1419.2
10°	1668.1	2068.7	2055.1	1970.0	1985.4	1978.6	2070.8	2056.2	1643.7	1492.0	1364.8
12.5°	1640.2	2088.5	1986.8	1958.9	1975.6	1966.1	1996.9	2077.7	1628.4	1464.4	1302.1
15°	1591.4	2060.1	1929.6	1917.4	1917.4	1925.9	1938.3	2068.8	1596.7	1414.3	1225.4
17.5°	1541.2	2003.5	1889.9	1829.4	1822.9	1834.2	1904.1	2018.0	1551.7	1358.8	1151.1
20°	1500.8	1964.4	1849.4	1778.6	1807.6	1782.0	1865.1	1975.0	1518.2	1323.9	1105.1
22.5°	1464.5	1915.9	1797.8	1767.7	1806.2	1768.3	1812.1	1926.4	1479.2	1284.9	1070.3
25°	1403.2	1834.4	1720.4	1748.6	1762.3	1748.6	1727.4	1841.5	1418.9	1234.8	1033.6
27.5°	1342.2	1748.5	1662.6	1681.5	1639.9	1671.9	1672.0	1748.8	1356.8	1176.5	1022.5
30°	1293.4	1688.8	1633.3	1605.7	1540.9	1592.0	1645.5	1689.2	1310.8	1138.7	1019.7
32.5°	1229.2	1634.2	1604.0	1508.6	1467.0	1501.7	1617.6	1633.0	1239.7	1104.4	1016.9
35°	1120.8	1557.1	1551.3	1393.5	1350.9	1383.3	1563.5	1553.1	1092.9	1050.3	995.3
37.5°	975.4	1488.4	1450.6	1277.2	1209.4	1268.7	1462.1	1481.1	919.3	1000.8	944.8
40°	854.1	1442.1	1375.3	1190.8	1124.3	1182.2	1384.0	1438.0	824.5	965.9	889.0
42.5°	785.8	1401.1	1295.8	1099.3	687.8	1085.3	1304.5	1395.8	765.9	921.0	840.2
45°	716.4	1326.6	1180.1	608.5	385.2	579.5	1181.8	1308.0	723.4	852.9	765.2
47.5°	686.1	1234.9	1059.1	366.5	325.3	355.9	1058.1	1214.8	686.4	784.6	693.7
50°	662.4	1177.1	972.6	322.9	266.7	311.0	974.4	1158.1	650.2	738.8	644.9
52.5°	623.3	1108.0	848.5	267.6	230.4	261.1	828.0	1086.3	612.5	688.9	583.6
55°	557.8	975.4	353.8	210.3	184.8	201.8	336.4	942.5	538.6	610.2	512.5
57.5°	488.4	830.3	248.2	163.7	143.3	162.0	246.5	797.0	479.3	516.8	446.9
60°	448.0	732.6	202.2	137.4	123.8	135.7	200.5	703.5	444.5	454.7	387.0
62.5°	407.5	633.5	167.3	120.9	116.8	119.2	167.0	601.7	401.3	401.9	272.6
65°	348.6	479.9	123.8	109.8	108.1	108.1	120.3	462.7	341.6	331.4	156.9
67.5°	288.7	344.6	99.4	101.1	99.4	99.4	97.6	334.9	281.7	264.3	118.5
70°	251.0	264.6	92.4	94.1	92.4	92.4	90.6	257.7	244.0	204.8	111.6
72.5°	214.7	180.7	85.4	85.8	85.4	85.4	83.7	169.6	207.8	144.0	101.8
75°	162.1	90.5	73.2	73.2	73.2	73.2	71.5	87.0	155.1	93.8	87.2
77.5°	112.6	59.8	60.7	60.3	60.3	58.9	58.9	59.3	106.0	64.7	70.4
80°	81.9	49.5	52.3	50.5	50.5	50.5	50.5	47.7	76.7	54.5	59.3
82.5°	58.2	39.5	42.5	40.8	40.8	40.8	40.8	39.0	53.0	44.5	48.1
85°	27.9	26.2	27.9	24.4	22.7	24.4	26.1	26.1	24.4	29.5	31.4
87.5°	8.4	13.7	13.6	12.1	12.1	12.1	12.2	12.3	7.0	15.0	15.0
90°	0.0	6.0	12.4	18.6	18.6	18.6	12.4	6.0	0.0	6.0	12.4
92.5°	14.8	20.9	27.2	38.5	43.3	38.5	27.2	20.9	14.8	20.9	27.2
95°	49.5	91.8	49.5	56.0	68.0	56.0	49.5	91.8	49.5	91.8	49.5
97.5°	87.8	176.2	363.7	107.3	92.8	107.3	363.7	176.2	87.8	176.2	363.7
100°	117.5	220.4	730.0	214.9	142.3	214.9	730.0	220.4	117.5	220.4	730.0
102.5°	147.2	254.9	987.3	567.0	310.5	567.0	987.3	254.9	147.2	254.9	987.3
105°	191.8	294.6	1119.7	1430.4	946.5	1430.4	1119.7	294.6	191.8	294.6	1119.7
107.5°	236.3	313.7	1069.0	2081.7	1949.9	2081.7	1069.0	313.7	236.3	313.7	1069.0
110°	266.0	338.6	1039.3	2187.4	2350.7	2187.4	1039.3	338.6	266.0	338.6	1039.3



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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°	295.7	368.3	1009.6	2125.6	2400.2	2125.6	1009.6	368.3	295.7	368.3	1009.6
115°	340.2	412.8	965.0	2005.8	2344.5	2005.8	965.0	412.8	340.2	412.8	965.0
117.5°	386.0	457.4	953.9	1876.1	2224.5	1876.1	953.9	457.4	386.0	457.4	953.9
120°	420.7	487.2	934.1	1777.5	2140.4	1777.5	934.1	487.2	420.7	487.2	934.1
122.5°	445.4	516.8	909.4	1692.7	2026.6	1692.7	909.4	516.8	445.4	516.8	909.4
125°	488.7	555.2	909.4	1590.2	1880.6	1590.2	909.4	555.2	488.7	555.2	909.4
127.5°	524.6	592.3	910.6	1471.4	1758.1	1471.4	910.6	592.3	524.6	592.3	910.6
130°	544.4	617.0	915.5	1391.9	1664.1	1391.9	915.5	617.0	544.4	617.0	915.5
132.5°	569.1	641.7	915.5	1356.1	1579.9	1356.1	915.5	641.7	569.1	641.7	915.5
135°	606.2	672.8	915.5	1309.7	1503.2	1309.7	915.5	672.8	606.2	672.8	915.5
137.5°	637.2	708.5	915.5	1258.3	1424.0	1258.3	915.5	708.5	637.2	708.5	915.5
140°	661.9	728.5	915.5	1228.3	1379.5	1228.3	915.5	728.5	661.9	728.5	915.5
142.5°	686.7	748.4	920.5	1193.4	1335.0	1193.4	920.5	748.4	686.7	748.4	920.5
145°	717.6	778.1	921.7	1141.0	1262.0	1141.0	921.7	778.1	717.6	778.1	921.7
147.5°	754.7	807.9	929.2	1103.2	1196.4	1103.2	929.2	807.9	754.7	807.9	929.2
150°	779.5	827.8	934.1	1078.2	1156.8	1078.2	934.1	827.8	779.5	827.8	934.1
152.5°	804.2	847.7	934.1	1058.0	1122.2	1058.0	934.1	847.7	804.2	847.7	934.1
155°	841.3	871.6	940.3	1034.2	1082.6	1034.2	940.3	871.6	841.3	871.6	940.3
157.5°	871.0	900.0	947.7	1019.0	1054.1	1019.0	947.7	900.0	871.0	900.0	947.7
160°	890.8	915.0	952.7	1009.0	1039.3	1009.0	952.7	915.0	890.8	915.0	952.7
162.5°	905.7	929.8	957.6	1003.9	1024.4	1003.9	957.6	929.8	905.7	929.8	957.6
165°	934.1	946.2	965.0	990.2	1008.3	990.2	965.0	946.2	934.1	946.2	965.0
167.5°	950.2	961.1	971.2	983.8	994.7	983.8	971.2	961.1	950.2	961.1	971.2
170°	965.0	971.1	971.2	983.7	989.8	983.7	971.2	971.1	965.0	971.1	971.2
172.5°	970.0	980.9	976.2	978.8	984.8	978.8	976.2	980.9	970.0	980.9	976.2
175°	983.6	989.6	983.6	977.3	971.2	977.3	983.6	989.6	983.6	989.6	983.6
177.5°	983.6	988.4	983.6	983.5	978.6	983.5	983.6	988.4	983.6	988.4	983.6
180°	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5
2.5°	1601.9	1600.5	1603.2	1627.0	1675.4	1719.0
5°	1459.1	1464.2	1469.3	1509.5	1594.1	1710.0
7.5°	1349.3	1341.8	1353.4	1418.9	1522.7	1689.0
10°	1273.8	1256.8	1273.8	1363.1	1484.1	1668.1
12.5°	1202.6	1181.5	1208.1	1305.9	1452.1	1640.2
15°	1110.8	1131.3	1119.3	1228.9	1404.0	1591.4
17.5°	1132.6	1235.5	1154.4	1161.9	1356.1	1541.2
20°	1184.2	1289.9	1218.3	1117.3	1325.2	1500.8
22.5°	1231.0	1310.8	1246.0	1079.7	1294.4	1464.5
25°	1267.0	1335.2	1263.6	1045.9	1249.8	1403.2
27.5°	1268.8	1278.4	1269.5	1043.1	1194.6	1342.2
30°	1245.4	1204.5	1242.0	1045.9	1155.3	1293.4
32.5°	1178.3	1132.0	1164.0	1040.3	1115.7	1229.2
35°	1082.8	1021.4	1065.8	1011.0	1054.3	1120.8
37.5°	982.0	904.3	965.7	953.1	1002.0	975.4
40°	913.8	777.4	900.1	895.9	973.4	854.1
42.5°	826.4	710.5	814.1	849.9	941.9	785.8
45°	667.3	653.7	660.5	772.2	874.9	716.4
47.5°	610.2	601.0	606.8	701.4	799.2	686.1
50°	576.7	564.8	573.3	655.4	751.0	662.4
52.5°	530.2	497.8	526.8	592.6	701.0	623.3
55°	398.7	301.6	397.0	521.2	626.0	557.8
57.5°	234.0	174.3	228.8	453.6	530.3	488.4
60°	158.3	146.4	160.1	399.2	466.7	448.0
62.5°	144.6	140.8	144.9	277.8	409.9	407.5
65°	132.4	130.7	132.4	160.4	338.4	348.6
67.5°	119.9	118.2	121.2	123.1	267.2	288.7
70°	111.5	109.8	111.5	113.3	205.0	251.0
72.5°	101.8	100.1	101.8	103.5	144.2	214.7
75°	87.1	85.4	87.1	88.9	95.6	162.1
77.5°	70.4	70.4	72.1	72.2	66.9	112.6
80°	59.3	59.3	61.0	61.0	58.1	81.9
82.5°	48.1	46.7	49.8	51.2	48.0	58.2
85°	29.6	27.9	31.3	33.1	31.3	27.9
87.5°	14.8	13.5	16.2	17.8	16.4	8.4
90°	18.6	18.6	18.6	12.4	6.0	0.0
92.5°	38.5	43.3	38.5	27.2	20.9	14.8
95°	56.0	68.0	56.0	49.5	91.8	49.5
97.5°	107.3	92.8	107.3	363.7	176.2	87.8
100°	214.9	142.3	214.9	730.0	220.4	117.5
102.5°	567.0	310.5	567.0	987.3	254.9	147.2
105°	1430.4	946.5	1430.4	1119.7	294.6	191.8
107.5°	2081.7	1949.9	2081.7	1069.0	313.7	236.3
110°	2187.4	2350.7	2187.4	1039.3	338.6	266.0





TEST NUMBER: P621743

CATALOG NUMBER: VLT-FA-150U-125D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2125.6	2400.2	2125.6	1009.6	368.3	295.7
115°	2005.8	2344.5	2005.8	965.0	412.8	340.2
117.5°	1876.1	2224.5	1876.1	953.9	457.4	386.0
120°	1777.5	2140.4	1777.5	934.1	487.2	420.7
122.5°	1692.7	2026.6	1692.7	909.4	516.8	445.4
125°	1590.2	1880.6	1590.2	909.4	555.2	488.7
127.5°	1471.4	1758.1	1471.4	910.6	592.3	524.6
130°	1391.9	1664.1	1391.9	915.5	617.0	544.4
132.5°	1356.1	1579.9	1356.1	915.5	641.7	569.1
135°	1309.7	1503.2	1309.7	915.5	672.8	606.2
137.5°	1258.3	1424.0	1258.3	915.5	708.5	637.2
140°	1228.3	1379.5	1228.3	915.5	728.5	661.9
142.5°	1193.4	1335.0	1193.4	920.5	748.4	686.7
145°	1141.0	1262.0	1141.0	921.7	778.1	717.6
147.5°	1103.2	1196.4	1103.2	929.2	807.9	754.7
150°	1078.2	1156.8	1078.2	934.1	827.8	779.5
152.5°	1058.0	1122.2	1058.0	934.1	847.7	804.2
155°	1034.2	1082.6	1034.2	940.3	871.6	841.3
157.5°	1019.0	1054.1	1019.0	947.7	900.0	871.0
160°	1009.0	1039.3	1009.0	952.7	915.0	890.8
162.5°	1003.9	1024.4	1003.9	957.6	929.8	905.7
165°	990.2	1008.3	990.2	965.0	946.2	934.1
167.5°	983.8	994.7	983.8	971.2	961.1	950.2
170°	983.7	989.8	983.7	971.2	971.1	965.0
172.5°	978.8	984.8	978.8	976.2	980.9	970.0
175°	977.3	971.2	977.3	983.6	989.6	983.6
177.5°	983.5	978.6	983.5	983.6	988.4	983.6
180°	983.6	983.6	983.6	983.6	983.6	983.6

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