

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: P621648

Luminaire Tested: VLT-FA-075U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621648  
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-125D-940-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

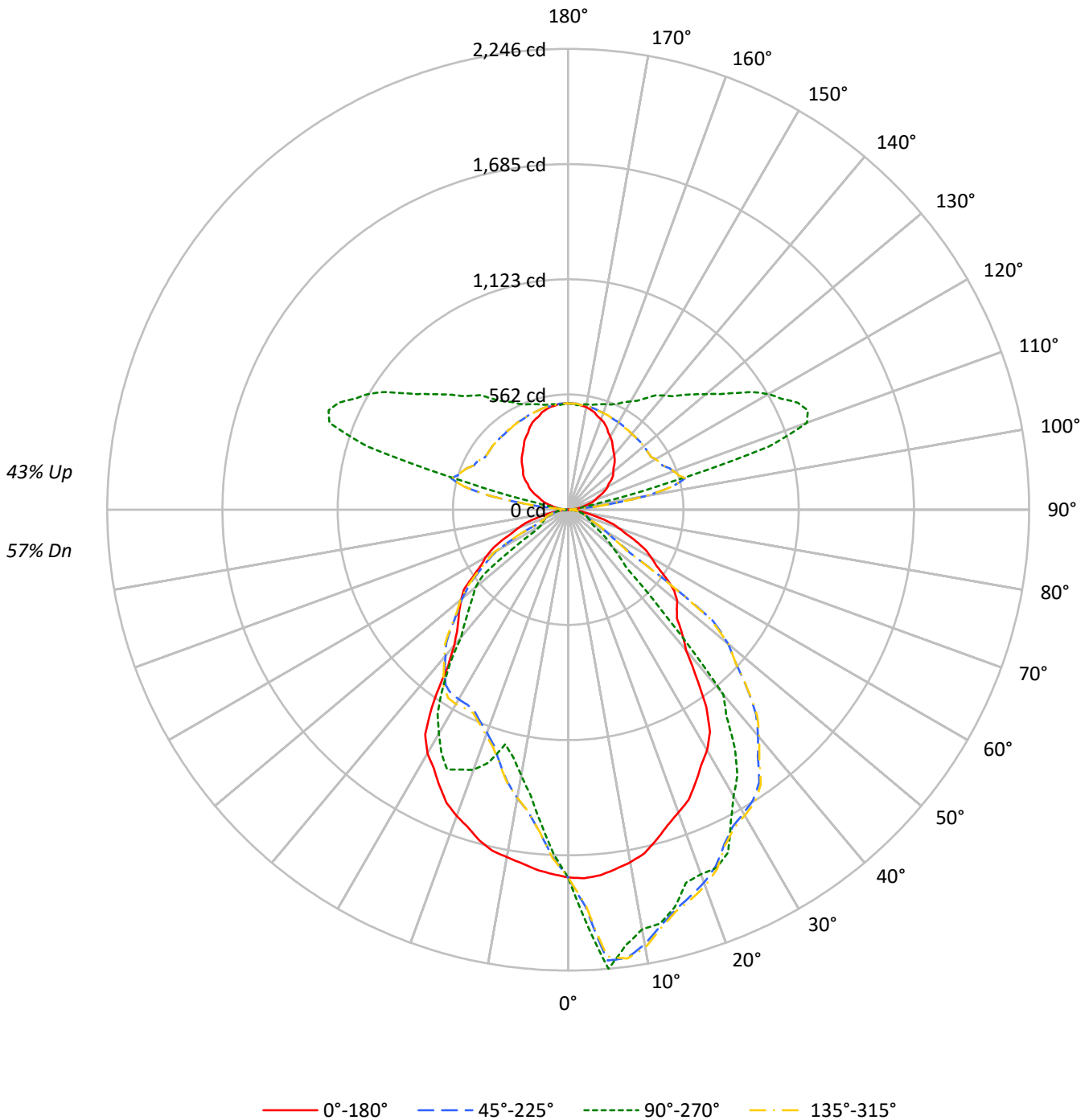
Lumens per Lamp: N/A  
Luminaire Lumens: 6477.8 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 59.5  
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



TEST NUMBER: P621648  
CATALOG NUMBER: VLT-FA-075U-125D-940-UNV-STD-W-4

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	0														
RCR																																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63	57																				
1	100	96	93	90	93	90	87	84	78	76	74	67	65	64	57	56	55	50																				
2	92	85	80	75	86	80	75	71	69	66	63	60	57	55	51	49	48	43																				
3	85	76	69	63	79	71	65	60	62	58	54	54	50	48	46	44	42	38																				
4	78	68	60	54	72	64	57	52	56	51	47	49	45	42	42	39	37	33																				
5	72	61	53	47	67	57	50	45	50	45	41	44	40	37	38	35	32	29																				
6	66	55	47	41	62	52	45	40	46	40	36	40	36	32	35	32	29	26																				
7	62	50	42	37	57	47	40	35	42	36	32	37	32	29	32	29	26	24																				
8	57	45	38	33	54	43	36	31	38	33	29	34	29	26	30	26	24	21																				
9	54	42	34	29	50	39	33	28	35	30	26	31	27	24	27	24	21	19																				
10	50	38	31	27	47	36	30	26	33	27	24	29	25	22	25	22	20	18																				

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

	0°	90°	180°	270°
0°	12859	12859	12859	12859
5°	12882	16178	12685	11030
10°	12712	15130	12526	9578
15°	12365	14898	12406	8789
20°	11986	14437	12125	10302
25°	11619	14593	11749	11056
30°	11209	13353	11359	10438
35°	10269	12376	10013	9359
40°	8368	11014	8078	7617
45°	7604	4089	7677	6937
50°	7733	3114	7591	6594
55°	7299	2417	7047	3946
60°	6724	1857	6672	2197
65°	6191	1919	6067	2321
70°	5508	2027	5354	2409
75°	4700	2124	4497	2476
80°	3542	2186	3314	2562
85°	2404	1951	2100	2404

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14080 cd/sqm



TEST NUMBER: P621648

CATALOG NUMBER: VLT-FA-075U-125D-940-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.9	2.7
10°-20°	473.5	7.3
20°-30°	708.6	10.9
30°-40°	805.8	12.4
40°-50°	689.2	10.6
50°-60°	464.8	7.2
60°-70°	239.9	3.7
70°-80°	108.3	1.7
80°-90°	33.4	0.5
90°-100°	63.7	1.0
100°-110°	453.7	7.0
110°-120°	615.9	9.5
120°-130°	501.3	7.7
130°-140°	403.2	6.2
140°-150°	317.8	4.9
150°-160°	232.4	3.6
160°-170°	144.4	2.2
170°-180°	49.2	0.8
0°-30°	1355.0	20.9
0°-40°	2160.8	33.4
0°-60°	3314.8	51.2
0°-90°	3696.4	57.1
90°-120°	1133.2	17.5
90°-150°	2355.5	36.4
90°-180°	2781.0	42.9
0°-180°	6477.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1792	1792	1792	1792	1792	
5°	1788	2246	1761	1531	1788	169
15°	1664	2005	1670	1183	1664	468
25°	1468	1843	1484	1396	1468	675
35°	1172	1413	1143	1068	1172	717
45°	749	403	756	684	749	594
55°	583	193	563	315	583	520
65°	365	113	357	137	365	360
75°	170	77	162	89	170	181
85°	29	24	26	29	29	37
90°	0	10	0	10	0	2
95°	26	36	26	36	26	29
105°	101	498	101	498	101	106
115°	179	1234	179	1234	179	178
125°	257	990	257	990	257	229
135°	319	791	319	791	319	246
145°	378	664	378	664	378	237
155°	443	570	443	570	443	203
165°	492	531	492	531	492	138
175°	518	511	518	511	518	49
180°	518	518	518	518	518	



TEST NUMBER: P621648

CATALOG NUMBER: VLT-FA-075U-125D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1797.8	1859.2	1936.4	1989.4	2012.2	1989.4	1923.3	1858.7	1777.4	1753.2	1695.8
5°	1788.4	1977.3	2205.8	2233.5	2245.9	2233.5	2185.8	1966.0	1761.0	1673.7	1578.7
7.5°	1766.5	2097.0	2203.3	2141.7	2142.0	2153.4	2206.6	2086.7	1738.1	1600.8	1484.3
10°	1744.6	2163.5	2149.3	2060.4	2076.4	2069.3	2165.7	2150.5	1719.1	1560.4	1427.4
12.5°	1715.4	2184.2	2077.9	2048.7	2066.2	2056.2	2088.4	2172.9	1703.0	1531.6	1361.8
15°	1664.4	2154.6	2018.1	2005.3	2005.3	2014.2	2027.2	2163.6	1669.9	1479.1	1281.6
17.5°	1611.9	2095.3	1976.5	1913.3	1906.5	1918.3	1991.4	2110.5	1622.8	1421.1	1203.9
20°	1569.6	2054.4	1934.2	1860.2	1890.5	1863.7	1950.6	2065.5	1587.8	1384.6	1155.8
22.5°	1531.7	2003.7	1880.2	1848.7	1889.0	1849.4	1895.2	2014.7	1547.0	1343.8	1119.3
25°	1467.5	1918.5	1799.3	1828.8	1843.1	1828.8	1806.6	1926.0	1483.9	1291.4	1081.0
27.5°	1403.7	1828.7	1738.8	1758.6	1715.1	1748.6	1748.6	1829.0	1419.0	1230.4	1069.4
30°	1352.7	1766.2	1708.2	1679.3	1611.5	1665.0	1720.9	1766.6	1370.9	1190.9	1066.5
32.5°	1285.6	1709.1	1677.5	1577.7	1534.2	1570.6	1691.7	1707.9	1296.5	1155.0	1063.5
35°	1172.2	1628.5	1622.5	1457.4	1412.8	1446.7	1635.2	1624.3	1143.0	1098.5	1040.9
37.5°	1020.2	1556.7	1517.1	1335.7	1264.8	1326.8	1529.1	1549.0	961.5	1046.7	988.1
40°	893.3	1508.2	1438.3	1245.4	1175.8	1236.4	1447.5	1504.0	862.3	1010.2	929.7
42.5°	821.8	1465.3	1355.2	1149.7	719.4	1135.0	1364.3	1459.8	801.0	963.2	878.7
45°	749.3	1387.4	1234.2	636.4	402.9	606.1	1236.0	1367.9	756.5	892.0	800.3
47.5°	717.5	1291.5	1107.7	383.3	340.2	372.3	1106.6	1270.5	717.9	820.6	725.6
50°	692.7	1231.1	1017.2	337.7	278.9	325.3	1019.1	1211.2	680.0	772.7	674.5
52.5°	651.9	1158.8	887.4	279.9	241.0	273.1	865.9	1136.1	640.6	720.5	610.3
55°	583.4	1020.1	370.1	220.0	193.2	211.1	351.8	985.8	563.3	638.2	536.0
57.5°	510.8	868.4	259.6	171.2	149.9	169.5	257.8	833.6	501.3	540.5	467.4
60°	468.5	766.2	211.5	143.7	129.4	141.9	209.6	735.8	464.9	475.6	404.7
62.5°	426.2	662.6	175.0	126.4	122.1	124.6	174.6	629.3	419.7	420.4	285.1
65°	364.6	501.9	129.4	114.8	113.0	113.0	125.8	483.9	357.3	346.6	164.1
67.5°	301.9	360.4	103.9	105.7	103.9	103.9	102.1	350.2	294.6	276.4	124.0
70°	262.5	276.8	96.6	98.4	96.6	96.6	94.8	269.5	255.2	214.2	116.7
72.5°	224.6	188.9	89.3	89.7	89.3	89.3	87.5	177.4	217.3	150.6	106.5
75°	169.5	94.7	76.6	76.6	76.6	76.6	74.7	90.9	162.2	98.1	91.2
77.5°	117.8	62.5	63.4	63.1	63.1	61.6	61.6	62.0	110.8	67.7	73.6
80°	85.7	51.8	54.7	52.9	52.9	52.9	52.9	49.9	80.2	57.0	62.0
82.5°	60.9	41.3	44.5	42.7	42.7	42.7	42.7	40.8	55.4	46.5	50.3
85°	29.2	27.4	29.2	25.5	23.7	25.5	27.3	27.3	25.5	30.9	32.8
87.5°	8.8	13.7	13.0	10.7	10.7	10.7	11.5	12.2	7.3	15.1	14.4
90°	0.0	3.2	6.5	9.8	9.8	9.8	6.5	3.2	0.0	3.2	6.5
92.5°	7.8	11.0	14.3	20.2	22.8	20.2	14.3	11.0	7.8	11.0	14.3
95°	26.1	48.3	26.1	29.5	35.8	29.5	26.1	48.3	26.1	48.3	26.1
97.5°	46.2	92.7	191.5	56.5	48.8	56.5	191.5	92.7	46.2	92.7	191.5
100°	61.9	116.0	384.3	113.1	74.9	113.1	384.3	116.0	61.9	116.0	384.3
102.5°	77.5	134.2	519.7	298.5	163.5	298.5	519.7	134.2	77.5	134.2	519.7
105°	101.0	155.1	589.4	753.0	498.3	753.0	589.4	155.1	101.0	155.1	589.4
107.5°	124.4	165.2	562.7	1095.9	1026.5	1095.9	562.7	165.2	124.4	165.2	562.7
110°	140.0	178.2	547.1	1151.5	1237.5	1151.5	547.1	178.2	140.0	178.2	547.1



TEST NUMBER: P621648

CATALOG NUMBER: VLT-FA-075U-125D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	155.7	193.9	531.5	1119.0	1263.5	1119.0	531.5	193.9	155.7	193.9	531.5
115°	179.1	217.3	508.0	1055.9	1234.2	1055.9	508.0	217.3	179.1	217.3	508.0
117.5°	203.2	240.8	502.2	987.6	1171.1	987.6	502.2	240.8	203.2	240.8	502.2
120°	221.4	256.5	491.7	935.7	1126.8	935.7	491.7	256.5	221.4	256.5	491.7
122.5°	234.5	272.0	478.7	891.1	1066.8	891.1	478.7	272.0	234.5	272.0	478.7
125°	257.3	292.3	478.7	837.2	990.0	837.2	478.7	292.3	257.3	292.3	478.7
127.5°	276.2	311.8	479.4	774.6	925.5	774.6	479.4	311.8	276.2	311.8	479.4
130°	286.6	324.8	482.0	732.7	876.0	732.7	482.0	324.8	286.6	324.8	482.0
132.5°	299.6	337.8	482.0	713.9	831.7	713.9	482.0	337.8	299.6	337.8	482.0
135°	319.1	354.2	482.0	689.4	791.3	689.4	482.0	354.2	319.1	354.2	482.0
137.5°	335.4	373.0	482.0	662.4	749.7	662.4	482.0	373.0	335.4	373.0	482.0
140°	348.5	383.5	482.0	646.6	726.2	646.6	482.0	383.5	348.5	383.5	482.0
142.5°	361.5	394.0	484.6	628.3	702.8	628.3	484.6	394.0	361.5	394.0	484.6
145°	377.8	409.6	485.2	600.7	664.3	600.7	485.2	409.6	377.8	409.6	485.2
147.5°	397.3	425.3	489.1	580.8	629.8	580.8	489.1	425.3	397.3	425.3	489.1
150°	410.3	435.8	491.7	567.6	609.0	567.6	491.7	435.8	410.3	435.8	491.7
152.5°	423.4	446.3	491.7	557.0	590.7	557.0	491.7	446.3	423.4	446.3	491.7
155°	442.9	458.8	495.0	544.4	569.9	544.4	495.0	458.8	442.9	458.8	495.0
157.5°	458.5	473.8	498.9	536.4	554.9	536.4	498.9	473.8	458.5	473.8	498.9
160°	468.9	481.7	501.5	531.2	547.1	531.2	501.5	481.7	468.9	481.7	501.5
162.5°	476.8	489.5	504.1	528.5	539.3	528.5	504.1	489.5	476.8	489.5	504.1
165°	491.7	498.1	508.0	521.3	530.8	521.3	508.0	498.1	491.7	498.1	508.0
167.5°	500.2	505.9	511.3	517.9	523.7	517.9	511.3	505.9	500.2	505.9	511.3
170°	508.0	511.2	511.3	517.9	521.0	517.9	511.3	511.2	508.0	511.2	511.3
172.5°	510.6	516.4	513.9	515.3	518.4	515.3	513.9	516.4	510.6	516.4	513.9
175°	517.8	521.0	517.8	514.5	511.3	514.5	517.8	521.0	517.8	521.0	517.8
177.5°	517.8	520.3	517.8	517.7	515.2	517.7	517.8	520.3	517.8	520.3	517.8
180°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8



TEST NUMBER: P621648

CATALOG NUMBER: VLT-FA-075U-125D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1675.3	1673.9	1676.7	1701.6	1752.2	1797.8
5°	1526.0	1531.3	1536.7	1578.7	1667.2	1788.4
7.5°	1411.2	1403.3	1415.5	1483.9	1592.5	1766.5
10°	1332.2	1314.4	1332.2	1425.6	1552.1	1744.6
12.5°	1257.7	1235.6	1263.4	1365.8	1518.7	1715.4
15°	1161.7	1183.1	1170.7	1285.2	1468.3	1664.4
17.5°	1184.5	1292.1	1207.3	1215.2	1418.3	1611.9
20°	1238.5	1349.0	1274.2	1168.5	1386.0	1569.6
22.5°	1287.5	1370.9	1303.2	1129.2	1353.8	1531.7
25°	1325.1	1396.4	1321.6	1093.8	1307.1	1467.5
27.5°	1327.0	1337.0	1327.7	1090.9	1249.3	1403.7
30°	1302.5	1259.7	1298.9	1093.8	1208.3	1352.7
32.5°	1232.3	1183.9	1217.4	1088.0	1166.9	1285.6
35°	1132.4	1068.3	1114.6	1057.3	1102.7	1172.2
37.5°	1027.1	945.8	1009.9	996.8	1048.0	1020.2
40°	955.7	813.1	941.4	937.0	1018.0	893.3
42.5°	864.3	743.1	851.4	888.9	985.1	821.8
45°	697.9	683.6	690.8	807.6	915.0	749.3
47.5°	638.2	628.6	634.6	733.6	835.9	717.5
50°	603.1	590.7	599.6	685.4	785.4	692.7
52.5°	554.5	520.6	551.0	619.8	733.2	651.9
55°	417.0	315.4	415.2	545.1	654.7	583.4
57.5°	244.7	182.3	239.3	474.3	554.7	510.8
60°	165.6	153.1	167.4	417.5	488.1	468.5
62.5°	151.2	147.3	151.6	290.6	428.7	426.2
65°	138.5	136.7	138.5	167.7	353.9	364.6
67.5°	125.4	123.6	126.8	128.7	279.4	301.9
70°	116.6	114.8	116.6	118.5	214.4	262.5
72.5°	106.4	104.6	106.4	108.3	150.8	224.6
75°	91.1	89.3	91.1	93.0	100.0	169.5
77.5°	73.6	73.6	75.4	75.5	70.0	117.8
80°	62.0	62.0	63.8	63.8	60.7	85.7
82.5°	50.3	48.9	52.1	53.6	50.2	60.9
85°	31.0	29.2	32.7	34.6	32.7	29.2
87.5°	13.6	12.2	15.0	17.3	16.5	8.8
90°	9.8	9.8	9.8	6.5	3.2	0.0
92.5°	20.2	22.8	20.2	14.3	11.0	7.8
95°	29.5	35.8	29.5	26.1	48.3	26.1
97.5°	56.5	48.8	56.5	191.5	92.7	46.2
100°	113.1	74.9	113.1	384.3	116.0	61.9
102.5°	298.5	163.5	298.5	519.7	134.2	77.5
105°	753.0	498.3	753.0	589.4	155.1	101.0
107.5°	1095.9	1026.5	1095.9	562.7	165.2	124.4
110°	1151.5	1237.5	1151.5	547.1	178.2	140.0





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CATALOG NUMBER: VLT-FA-075U-125D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1119.0	1263.5	1119.0	531.5	193.9	155.7
115°	1055.9	1234.2	1055.9	508.0	217.3	179.1
117.5°	987.6	1171.1	987.6	502.2	240.8	203.2
120°	935.7	1126.8	935.7	491.7	256.5	221.4
122.5°	891.1	1066.8	891.1	478.7	272.0	234.5
125°	837.2	990.0	837.2	478.7	292.3	257.3
127.5°	774.6	925.5	774.6	479.4	311.8	276.2
130°	732.7	876.0	732.7	482.0	324.8	286.6
132.5°	713.9	831.7	713.9	482.0	337.8	299.6
135°	689.4	791.3	689.4	482.0	354.2	319.1
137.5°	662.4	749.7	662.4	482.0	373.0	335.4
140°	646.6	726.2	646.6	482.0	383.5	348.5
142.5°	628.3	702.8	628.3	484.6	394.0	361.5
145°	600.7	664.3	600.7	485.2	409.6	377.8
147.5°	580.8	629.8	580.8	489.1	425.3	397.3
150°	567.6	609.0	567.6	491.7	435.8	410.3
152.5°	557.0	590.7	557.0	491.7	446.3	423.4
155°	544.4	569.9	544.4	495.0	458.8	442.9
157.5°	536.4	554.9	536.4	498.9	473.8	458.5
160°	531.2	547.1	531.2	501.5	481.7	468.9
162.5°	528.5	539.3	528.5	504.1	489.5	476.8
165°	521.3	530.8	521.3	508.0	498.1	491.7
167.5°	517.9	523.7	517.9	511.3	505.9	500.2
170°	517.9	521.0	517.9	511.3	511.2	508.0
172.5°	515.3	518.4	515.3	513.9	516.4	510.6
175°	514.5	511.3	514.5	517.8	521.0	517.8
177.5°	517.7	515.2	517.7	517.8	520.3	517.8
180°	517.8	517.8	517.8	517.8	517.8	517.8

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