

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: P621706

Luminaire Tested: VLT-FA-125U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621706
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-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

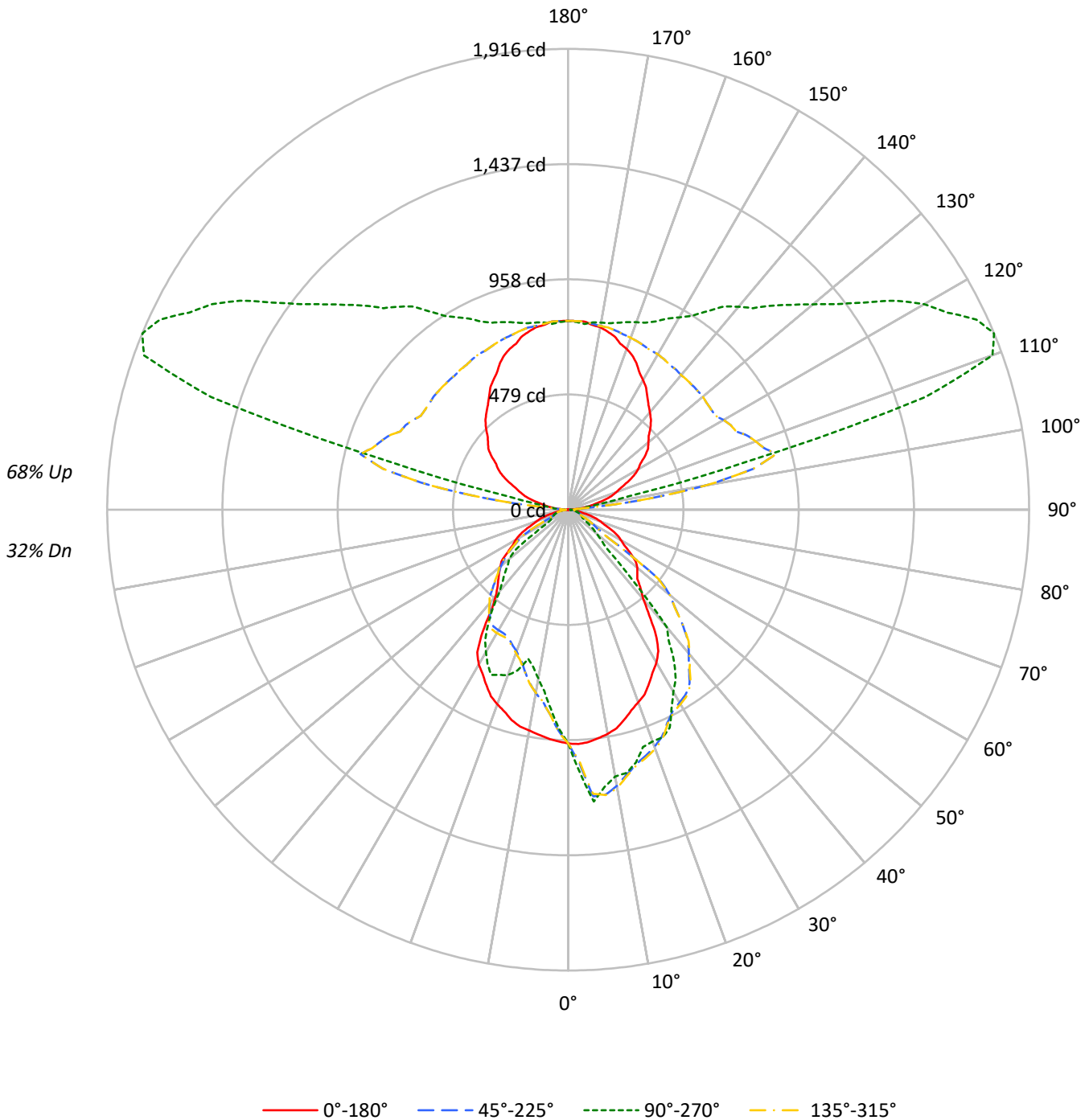
Lumens per Lamp: N/A
Luminaire Lumens: 6223.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (A_{in}): 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: P621706
CATALOG NUMBER: VLT-FA-125U-075D-930-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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32				
1	94	90	87	84	85	82	79	76	65	63	61	50	49	48	36	35	35	28				
2	86	79	74	69	78	72	67	63	58	54	52	44	42	41	32	31	30	25				
3	79	70	63	58	71	64	58	53	51	47	44	40	37	35	29	27	26	21				
4	72	62	55	49	65	57	50	45	46	41	38	36	33	30	26	24	23	19				
5	67	56	48	43	60	51	44	39	41	36	33	32	29	26	24	22	20	17				
6	61	50	42	37	55	46	39	34	37	32	29	29	26	23	22	20	18	15				
7	57	45	38	32	51	41	35	30	34	29	25	27	23	21	20	18	16	13				
8	53	41	34	29	47	37	31	27	31	26	23	24	21	18	18	16	15	12				
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11				
10	46	34	27	23	41	31	25	21	26	21	18	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6974	6974	6974	6974
5°	6987	8774	6880	5982
10°	6895	8206	6794	5195
15°	6706	8080	6729	4767
20°	6501	7830	6577	5588
25°	6302	7915	6372	5997
30°	6079	7242	6161	5661
35°	5570	6713	5430	5076
40°	4539	5974	4381	4131
45°	4124	2217	4164	3763
50°	4194	1689	4117	3576
55°	3958	1311	3822	2139
60°	3647	1008	3618	1193
65°	3357	1041	3291	1260
70°	2988	1099	2904	1307
75°	2551	1151	2440	1342
80°	1922	1186	1798	1389
85°	1301	1062	1136	1301

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7637 cd/sqm



TEST NUMBER: P621706

CATALOG NUMBER: VLT-FA-125U-075D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	1.5
10°-20°	256.8	4.1
20°-30°	384.3	6.2
30°-40°	437.1	7.0
40°-50°	373.8	6.0
50°-60°	252.1	4.1
60°-70°	130.1	2.1
70°-80°	58.7	0.9
80°-90°	19.2	0.3
90°-100°	96.5	1.6
100°-110°	687.8	11.1
110°-120°	933.8	15.0
120°-130°	760.0	12.2
130°-140°	611.2	9.8
140°-150°	481.9	7.7
150°-160°	352.4	5.7
160°-170°	218.9	3.5
170°-180°	74.6	1.2
0°-30°	734.9	11.8
0°-40°	1172.0	18.8
0°-60°	1797.8	28.9
0°-90°	2005.9	32.2
90°-120°	1718.1	27.6
90°-150°	3571.3	57.4
90°-180°	4217.0	67.8
0°-180°	6223.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	970	1218	955	830	970	92
15°	903	1088	906	642	903	254
25°	796	1000	805	757	796	366
35°	636	766	620	579	636	389
45°	406	218	410	371	406	322
55°	316	105	306	171	316	282
65°	198	61	194	74	198	195
75°	92	42	88	48	92	98
85°	16	13	14	16	16	20
90°	0	15	0	15	0	2
95°	40	54	40	54	40	44
105°	153	755	153	755	153	161
115°	272	1871	272	1871	272	270
125°	390	1501	390	1501	390	347
135°	484	1200	484	1200	484	372
145°	573	1007	573	1007	573	360
155°	672	864	672	864	672	308
165°	746	805	746	805	746	209
175°	785	775	785	775	785	74
180°	785	785	785	785	785	



TEST NUMBER: P621706

CATALOG NUMBER: VLT-FA-125U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	975.1	1008.3	1050.2	1079.0	1091.4	1079.0	1043.1	1008.1	964.0	950.9	919.7
5°	969.9	1072.4	1196.4	1211.3	1218.1	1211.3	1185.5	1066.3	955.1	907.7	856.2
7.5°	958.1	1137.3	1195.0	1161.6	1161.8	1167.9	1196.8	1131.7	942.7	868.2	805.0
10°	946.2	1173.4	1165.7	1117.5	1126.2	1122.3	1174.6	1166.3	932.4	846.3	774.2
12.5°	930.4	1184.6	1127.0	1111.1	1120.6	1115.2	1132.7	1178.5	923.7	830.7	738.6
15°	902.7	1168.6	1094.5	1087.6	1087.6	1092.4	1099.5	1173.5	905.7	802.2	695.1
17.5°	874.2	1136.4	1072.0	1037.7	1034.0	1040.4	1080.1	1144.7	880.2	770.7	653.0
20°	851.3	1114.3	1049.0	1008.9	1025.3	1010.8	1057.9	1120.3	861.2	751.0	626.9
22.5°	830.7	1086.7	1019.8	1002.7	1024.5	1003.1	1027.9	1092.7	839.0	728.8	607.1
25°	795.9	1040.5	975.9	991.9	999.6	991.9	979.8	1044.6	804.8	700.4	586.3
27.5°	761.3	991.8	943.0	953.8	930.2	948.4	948.4	992.0	769.6	667.3	580.0
30°	733.6	957.9	926.4	910.8	874.0	903.0	933.4	958.1	743.5	645.9	578.4
32.5°	697.3	927.0	909.8	855.7	832.1	851.8	917.5	926.3	703.2	626.4	576.8
35°	635.8	883.2	880.0	790.4	766.3	784.6	886.9	881.0	619.9	595.8	564.6
37.5°	553.3	844.3	822.8	724.5	686.0	719.6	829.3	840.1	521.5	567.7	535.9
40°	484.5	818.0	780.1	675.4	637.7	670.6	785.0	815.7	467.7	547.9	504.3
42.5°	445.7	794.7	735.0	623.5	390.2	615.6	740.0	791.8	434.4	522.4	476.6
45°	406.4	752.5	669.4	345.2	218.5	328.7	670.4	741.9	410.3	483.8	434.1
47.5°	389.2	700.5	600.8	207.9	184.5	201.9	600.2	689.1	389.4	445.0	393.5
50°	375.7	667.7	551.7	183.2	151.3	176.4	552.7	656.9	368.8	419.1	365.8
52.5°	353.6	628.5	481.3	151.8	130.7	148.1	469.6	616.2	347.4	390.7	331.0
55°	316.4	553.2	200.7	119.3	104.8	114.5	190.8	534.6	305.5	346.1	290.7
57.5°	277.0	471.0	140.8	92.9	81.3	91.9	139.8	452.1	271.9	293.2	253.5
60°	254.1	415.6	114.7	77.9	70.2	77.0	113.7	399.1	252.1	257.9	219.5
62.5°	231.2	359.4	94.9	68.6	66.2	67.6	94.7	341.3	227.6	228.0	154.6
65°	197.7	272.2	70.2	62.3	61.3	61.3	68.2	262.4	193.8	188.0	89.0
67.5°	163.7	195.4	56.4	57.3	56.4	56.4	55.4	189.9	159.8	149.9	67.2
70°	142.4	150.1	52.4	53.4	52.4	52.4	51.4	146.2	138.4	116.2	63.3
72.5°	121.8	102.5	48.4	48.6	48.4	48.4	47.5	96.2	117.9	81.7	57.7
75°	92.0	51.3	41.5	41.5	41.5	41.5	40.5	49.3	88.0	53.2	49.4
77.5°	63.9	33.9	34.4	34.2	34.2	33.4	33.4	33.6	60.1	36.7	39.9
80°	46.5	28.1	29.7	28.7	28.7	28.7	28.7	27.1	43.5	30.9	33.6
82.5°	33.0	22.4	24.1	23.1	23.1	23.1	23.1	22.1	30.1	25.2	27.3
85°	15.8	14.9	15.8	13.8	12.9	13.8	14.8	14.8	13.8	16.7	17.8
87.5°	4.7	8.0	8.3	7.7	7.7	7.7	7.5	7.2	4.0	8.8	9.1
90°	0.0	4.8	9.9	14.8	14.8	14.8	9.9	4.8	0.0	4.8	9.9
92.5°	11.8	16.7	21.7	30.7	34.6	30.7	21.7	16.7	11.8	16.7	21.7
95°	39.5	73.3	39.5	44.7	54.3	44.7	39.5	73.3	39.5	73.3	39.5
97.5°	70.1	140.6	290.3	85.6	74.1	85.6	290.3	140.6	70.1	140.6	290.3
100°	93.8	175.9	582.6	171.5	113.6	171.5	582.6	175.9	93.8	175.9	582.6
102.5°	117.5	203.4	788.0	452.6	247.9	452.6	788.0	203.4	117.5	203.4	788.0
105°	153.1	235.1	893.7	1141.7	755.4	1141.7	893.7	235.1	153.1	235.1	893.7
107.5°	188.6	250.4	853.2	1661.5	1556.3	1661.5	853.2	250.4	188.6	250.4	853.2
110°	212.3	270.2	829.5	1745.9	1876.2	1745.9	829.5	270.2	212.3	270.2	829.5



TEST NUMBER: P621706

CATALOG NUMBER: VLT-FA-125U-075D-930-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°	236.0	293.9	805.8	1696.6	1915.7	1696.6	805.8	293.9	236.0	293.9	805.8
115°	271.6	329.5	770.2	1600.9	1871.3	1600.9	770.2	329.5	271.6	329.5	770.2
117.5°	308.1	365.1	761.4	1497.4	1775.5	1497.4	761.4	365.1	308.1	365.1	761.4
120°	335.7	388.9	745.6	1418.7	1708.4	1418.7	745.6	388.9	335.7	388.9	745.6
122.5°	355.5	412.5	725.8	1351.0	1617.5	1351.0	725.8	412.5	355.5	412.5	725.8
125°	390.1	443.2	725.8	1269.3	1501.0	1269.3	725.8	443.2	390.1	443.2	725.8
127.5°	418.7	472.8	726.8	1174.4	1403.2	1174.4	726.8	472.8	418.7	472.8	726.8
130°	434.5	492.4	730.7	1110.9	1328.2	1110.9	730.7	492.4	434.5	492.4	730.7
132.5°	454.2	512.2	730.7	1082.4	1261.0	1082.4	730.7	512.2	454.2	512.2	730.7
135°	483.9	537.0	730.7	1045.3	1199.8	1045.3	730.7	537.0	483.9	537.0	730.7
137.5°	508.6	565.5	730.7	1004.3	1136.6	1004.3	730.7	565.5	508.6	565.5	730.7
140°	528.3	581.4	730.7	980.4	1101.1	980.4	730.7	581.4	528.3	581.4	730.7
142.5°	548.1	597.3	734.7	952.5	1065.5	952.5	734.7	597.3	548.1	597.3	734.7
145°	572.7	621.0	735.7	910.7	1007.2	910.7	735.7	621.0	572.7	621.0	735.7
147.5°	602.4	644.9	741.6	880.6	954.9	880.6	741.6	644.9	602.4	644.9	741.6
150°	622.1	660.7	745.6	860.5	923.3	860.5	745.6	660.7	622.1	660.7	745.6
152.5°	641.9	676.6	745.6	844.5	895.7	844.5	745.6	676.6	641.9	676.6	745.6
155°	671.5	695.6	750.5	825.4	864.1	825.4	750.5	695.6	671.5	695.6	750.5
157.5°	695.2	718.4	756.4	813.3	841.3	813.3	756.4	718.4	695.2	718.4	756.4
160°	711.0	730.3	760.4	805.4	829.5	805.4	760.4	730.3	711.0	730.3	760.4
162.5°	722.8	742.2	764.3	801.2	817.6	801.2	764.3	742.2	722.8	742.2	764.3
165°	745.6	755.2	770.2	790.3	804.8	790.3	770.2	755.2	745.6	755.2	770.2
167.5°	758.4	767.1	775.2	785.3	793.9	785.3	775.2	767.1	758.4	767.1	775.2
170°	770.2	775.1	775.2	785.2	790.0	785.2	775.2	775.1	770.2	775.1	775.2
172.5°	774.2	782.9	779.1	781.2	786.0	781.2	779.1	782.9	774.2	782.9	779.1
175°	785.1	789.9	785.1	780.0	775.2	780.0	785.1	789.9	785.1	789.9	785.1
177.5°	785.1	788.9	785.1	785.0	781.1	785.0	785.1	788.9	785.1	788.9	785.1
180°	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1



TEST NUMBER: P621706

CATALOG NUMBER: VLT-FA-125U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	908.6	907.8	909.4	922.9	950.3	975.1
5°	827.6	830.5	833.4	856.2	904.2	969.9
7.5°	765.4	761.1	767.7	804.8	863.7	958.1
10°	722.5	712.9	722.5	773.2	841.8	946.2
12.5°	682.1	670.2	685.2	740.8	823.7	930.4
15°	630.1	641.7	634.9	697.1	796.4	902.7
17.5°	642.4	700.8	654.8	659.1	769.2	874.2
20°	671.7	731.7	691.1	633.8	751.7	851.3
22.5°	698.3	743.5	706.8	612.4	734.2	830.7
25°	718.7	757.4	716.8	593.2	708.9	795.9
27.5°	719.7	725.1	720.1	591.7	677.6	761.3
30°	706.4	683.2	704.5	593.2	655.3	733.6
32.5°	668.4	642.1	660.3	590.1	632.9	697.3
35°	614.2	579.4	604.5	573.5	598.0	635.8
37.5°	557.0	513.0	547.8	540.6	568.4	553.3
40°	518.3	441.0	510.6	508.2	552.1	484.5
42.5°	468.7	403.0	461.8	482.1	534.3	445.7
45°	378.5	370.8	374.6	438.0	496.3	406.4
47.5°	346.1	340.9	344.2	397.9	453.4	389.2
50°	327.1	320.3	325.2	371.8	426.0	375.7
52.5°	300.7	282.4	298.8	336.2	397.7	353.6
55°	226.2	171.0	225.2	295.6	355.1	316.4
57.5°	132.7	98.9	129.8	257.3	300.8	277.0
60°	89.8	83.1	90.8	226.4	264.7	254.1
62.5°	82.0	79.9	82.2	157.6	232.5	231.2
65°	75.1	74.2	75.1	91.0	191.9	197.7
67.5°	68.0	67.0	68.8	69.8	151.6	163.7
70°	63.3	62.3	63.3	64.3	116.3	142.4
72.5°	57.7	56.8	57.7	58.7	81.8	121.8
75°	49.4	48.4	49.4	50.4	54.2	92.0
77.5°	39.9	39.9	40.9	40.9	38.0	63.9
80°	33.6	33.6	34.6	34.6	32.9	46.5
82.5°	27.3	26.5	28.2	29.1	27.2	33.0
85°	16.8	15.8	17.8	18.8	17.8	15.8
87.5°	9.3	8.5	10.0	10.7	9.6	4.7
90°	14.8	14.8	14.8	9.9	4.8	0.0
92.5°	30.7	34.6	30.7	21.7	16.7	11.8
95°	44.7	54.3	44.7	39.5	73.3	39.5
97.5°	85.6	74.1	85.6	290.3	140.6	70.1
100°	171.5	113.6	171.5	582.6	175.9	93.8
102.5°	452.6	247.9	452.6	788.0	203.4	117.5
105°	1141.7	755.4	1141.7	893.7	235.1	153.1
107.5°	1661.5	1556.3	1661.5	853.2	250.4	188.6
110°	1745.9	1876.2	1745.9	829.5	270.2	212.3



TEST NUMBER: P621706

CATALOG NUMBER: VLT-FA-125U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1696.6	1915.7	1696.6	805.8	293.9	236.0
115°	1600.9	1871.3	1600.9	770.2	329.5	271.6
117.5°	1497.4	1775.5	1497.4	761.4	365.1	308.1
120°	1418.7	1708.4	1418.7	745.6	388.9	335.7
122.5°	1351.0	1617.5	1351.0	725.8	412.5	355.5
125°	1269.3	1501.0	1269.3	725.8	443.2	390.1
127.5°	1174.4	1403.2	1174.4	726.8	472.8	418.7
130°	1110.9	1328.2	1110.9	730.7	492.4	434.5
132.5°	1082.4	1261.0	1082.4	730.7	512.2	454.2
135°	1045.3	1199.8	1045.3	730.7	537.0	483.9
137.5°	1004.3	1136.6	1004.3	730.7	565.5	508.6
140°	980.4	1101.1	980.4	730.7	581.4	528.3
142.5°	952.5	1065.5	952.5	734.7	597.3	548.1
145°	910.7	1007.2	910.7	735.7	621.0	572.7
147.5°	880.6	954.9	880.6	741.6	644.9	602.4
150°	860.5	923.3	860.5	745.6	660.7	622.1
152.5°	844.5	895.7	844.5	745.6	676.6	641.9
155°	825.4	864.1	825.4	750.5	695.6	671.5
157.5°	813.3	841.3	813.3	756.4	718.4	695.2
160°	805.4	829.5	805.4	760.4	730.3	711.0
162.5°	801.2	817.6	801.2	764.3	742.2	722.8
165°	790.3	804.8	790.3	770.2	755.2	745.6
167.5°	785.3	793.9	785.3	775.2	767.1	758.4
170°	785.2	790.0	785.2	775.2	775.1	770.2
172.5°	781.2	786.0	781.2	779.1	782.9	774.2
175°	780.0	775.2	780.0	785.1	789.9	785.1
177.5°	785.0	781.1	785.0	785.1	788.9	785.1
180°	785.1	785.1	785.1	785.1	785.1	785.1

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