

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P621744

Luminaire Tested: VLT-FA-150U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621744
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-940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

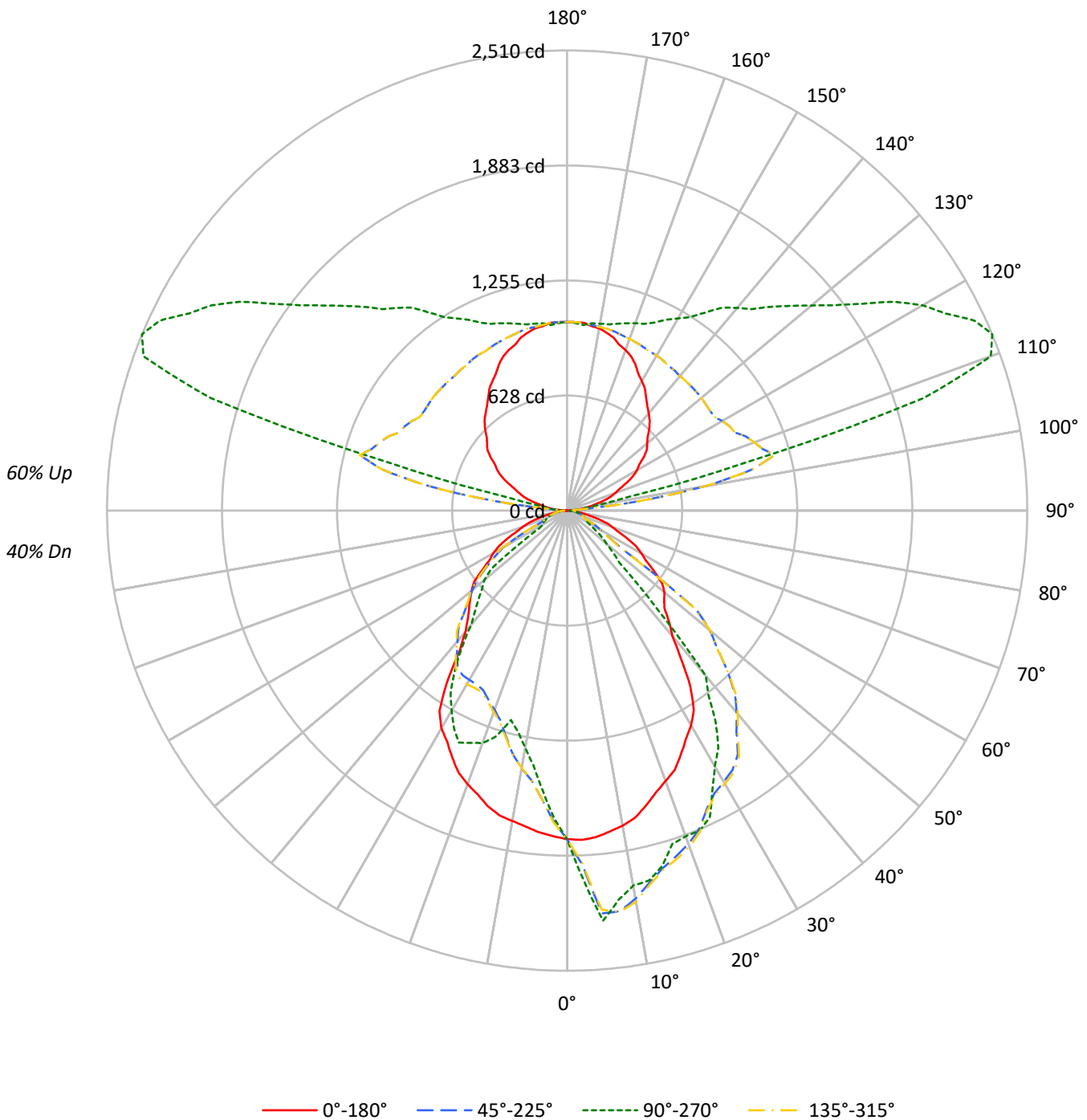
Lumens per Lamp: N/A
Luminaire Lumens: 9223.4 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.3
Input Voltage (V): 120
Input Current (A_{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



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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	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°	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	1.9
10°-20°	473.5	5.1
20°-30°	708.6	7.7
30°-40°	805.8	8.7
40°-50°	689.2	7.5
50°-60°	464.8	5.0
60°-70°	239.9	2.6
70°-80°	108.3	1.2
80°-90°	34.5	0.4
90°-100°	126.5	1.4
100°-110°	901.3	9.8
110°-120°	1223.6	13.3
120°-130°	995.9	10.8
130°-140°	800.9	8.7
140°-150°	631.5	6.8
150°-160°	461.7	5.0
160°-170°	286.8	3.1
170°-180°	97.8	1.1
0°-30°	1355.0	14.7
0°-40°	2160.8	23.4
0°-60°	3314.8	35.9
0°-90°	3697.5	40.1
90°-120°	2251.3	24.4
90°-150°	4679.6	50.7
90°-180°	5526.0	59.9
0°-180°	9223.4	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	19	0	19	0	3
95°	52	71	52	71	52	58
105°	201	990	201	990	201	212
115°	356	2452	356	2452	356	353
125°	511	1967	511	1967	511	454
135°	634	1572	634	1572	634	488
145°	750	1320	750	1320	750	471
155°	880	1132	880	1132	880	404
165°	977	1055	977	1055	977	274
175°	1029	1016	1029	1016	1029	97
180°	1029	1029	1029	1029	1029	



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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	14.3	14.3	12.6	12.6	12.6	12.8	12.8	7.3	15.7	15.7
90°	0.0	6.3	12.9	19.4	19.4	19.4	12.9	6.3	0.0	6.3	12.9
92.5°	15.5	21.9	28.5	40.2	45.3	40.2	28.5	21.9	15.5	21.9	28.5
95°	51.8	96.0	51.8	58.5	71.2	58.5	51.8	96.0	51.8	96.0	51.8
97.5°	91.9	184.2	380.4	112.2	97.0	112.2	380.4	184.2	91.9	184.2	380.4
100°	122.9	230.5	763.4	224.7	148.8	224.7	763.4	230.5	122.9	230.5	763.4
102.5°	154.0	266.6	1032.6	593.0	324.8	593.0	1032.6	266.6	154.0	266.6	1032.6
105°	200.6	308.1	1171.0	1496.0	989.9	1496.0	1171.0	308.1	200.6	308.1	1171.0
107.5°	247.1	328.1	1118.0	2177.2	2039.3	2177.2	1118.0	328.1	247.1	328.1	1118.0
110°	278.2	354.1	1086.9	2287.7	2458.5	2287.7	1086.9	354.1	278.2	354.1	1086.9



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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°	309.3	385.2	1055.9	2223.1	2510.3	2223.1	1055.9	385.2	309.3	385.2	1055.9
115°	355.8	431.7	1009.3	2097.8	2452.0	2097.8	1009.3	431.7	355.8	431.7	1009.3
117.5°	403.7	478.4	997.6	1962.2	2326.5	1962.2	997.6	478.4	403.7	478.4	997.6
120°	439.9	509.5	976.9	1859.0	2238.5	1859.0	976.9	509.5	439.9	509.5	976.9
122.5°	465.8	540.5	951.1	1770.3	2119.5	1770.3	951.1	540.5	465.8	540.5	951.1
125°	511.1	580.7	951.1	1663.2	1966.8	1663.2	951.1	580.7	511.1	580.7	951.1
127.5°	548.6	619.5	952.3	1538.9	1838.7	1538.9	952.3	619.5	548.6	619.5	952.3
130°	569.3	645.3	957.5	1455.7	1740.4	1455.7	957.5	645.3	569.3	645.3	957.5
132.5°	595.2	671.1	957.5	1418.3	1652.4	1418.3	957.5	671.1	595.2	671.1	957.5
135°	634.0	703.6	957.5	1369.7	1572.2	1369.7	957.5	703.6	634.0	703.6	957.5
137.5°	666.4	741.0	957.5	1316.0	1489.3	1316.0	957.5	741.0	666.4	741.0	957.5
140°	692.3	761.9	957.5	1284.6	1442.8	1284.6	957.5	761.9	692.3	761.9	957.5
142.5°	718.1	782.7	962.7	1248.1	1396.2	1248.1	962.7	782.7	718.1	782.7	962.7
145°	750.5	813.8	964.0	1193.3	1319.8	1193.3	964.0	813.8	750.5	813.8	964.0
147.5°	789.3	845.0	971.8	1153.8	1251.3	1153.8	971.8	845.0	789.3	845.0	971.8
150°	815.2	865.8	976.9	1127.6	1209.8	1127.6	976.9	865.8	815.2	865.8	976.9
152.5°	841.1	886.6	976.9	1106.6	1173.6	1106.6	976.9	886.6	841.1	886.6	976.9
155°	879.9	911.5	983.4	1081.6	1132.2	1081.6	983.4	911.5	879.9	911.5	983.4
157.5°	910.9	941.3	991.2	1065.8	1102.4	1065.8	991.2	941.3	910.9	941.3	991.2
160°	931.6	957.0	996.3	1055.3	1086.9	1055.3	996.3	957.0	931.6	957.0	996.3
162.5°	947.2	972.5	1001.5	1049.9	1071.4	1049.9	1001.5	972.5	947.2	972.5	1001.5
165°	976.9	989.6	1009.3	1035.6	1054.6	1035.6	1009.3	989.6	976.9	989.6	1009.3
167.5°	993.8	1005.1	1015.8	1029.0	1040.3	1029.0	1015.8	1005.1	993.8	1005.1	1015.8
170°	1009.3	1015.6	1015.8	1028.8	1035.2	1028.8	1015.8	1015.6	1009.3	1015.6	1015.8
172.5°	1014.5	1025.8	1020.9	1023.7	1030.0	1023.7	1020.9	1025.8	1014.5	1025.8	1020.9
175°	1028.7	1035.0	1028.7	1022.1	1015.8	1022.1	1028.7	1035.0	1028.7	1035.0	1028.7
177.5°	1028.7	1033.8	1028.7	1028.6	1023.5	1028.6	1028.7	1033.8	1028.7	1033.8	1028.7
180°	1028.7	1028.7	1028.7	1028.7	1028.7	1028.7	1028.7	1028.7	1028.7	1028.7	1028.7



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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°	15.5	14.1	16.9	18.6	17.1	8.8
90°	19.4	19.4	19.4	12.9	6.3	0.0
92.5°	40.2	45.3	40.2	28.5	21.9	15.5
95°	58.5	71.2	58.5	51.8	96.0	51.8
97.5°	112.2	97.0	112.2	380.4	184.2	91.9
100°	224.7	148.8	224.7	763.4	230.5	122.9
102.5°	593.0	324.8	593.0	1032.6	266.6	154.0
105°	1496.0	989.9	1496.0	1171.0	308.1	200.6
107.5°	2177.2	2039.3	2177.2	1118.0	328.1	247.1
110°	2287.7	2458.5	2287.7	1086.9	354.1	278.2



TEST NUMBER: P621744

CATALOG NUMBER: VLT-FA-150U-125D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2223.1	2510.3	2223.1	1055.9	385.2	309.3
115°	2097.8	2452.0	2097.8	1009.3	431.7	355.8
117.5°	1962.2	2326.5	1962.2	997.6	478.4	403.7
120°	1859.0	2238.5	1859.0	976.9	509.5	439.9
122.5°	1770.3	2119.5	1770.3	951.1	540.5	465.8
125°	1663.2	1966.8	1663.2	951.1	580.7	511.1
127.5°	1538.9	1838.7	1538.9	952.3	619.5	548.6
130°	1455.7	1740.4	1455.7	957.5	645.3	569.3
132.5°	1418.3	1652.4	1418.3	957.5	671.1	595.2
135°	1369.7	1572.2	1369.7	957.5	703.6	634.0
137.5°	1316.0	1489.3	1316.0	957.5	741.0	666.4
140°	1284.6	1442.8	1284.6	957.5	761.9	692.3
142.5°	1248.1	1396.2	1248.1	962.7	782.7	718.1
145°	1193.3	1319.8	1193.3	964.0	813.8	750.5
147.5°	1153.8	1251.3	1153.8	971.8	845.0	789.3
150°	1127.6	1209.8	1127.6	976.9	865.8	815.2
152.5°	1106.6	1173.6	1106.6	976.9	886.6	841.1
155°	1081.6	1132.2	1081.6	983.4	911.5	879.9
157.5°	1065.8	1102.4	1065.8	991.2	941.3	910.9
160°	1055.3	1086.9	1055.3	996.3	957.0	931.6
162.5°	1049.9	1071.4	1049.9	1001.5	972.5	947.2
165°	1035.6	1054.6	1035.6	1009.3	989.6	976.9
167.5°	1029.0	1040.3	1029.0	1015.8	1005.1	993.8
170°	1028.8	1035.2	1028.8	1015.8	1015.6	1009.3
172.5°	1023.7	1030.0	1023.7	1020.9	1025.8	1014.5
175°	1022.1	1015.8	1022.1	1028.7	1035.0	1028.7
177.5°	1028.6	1023.5	1028.6	1028.7	1033.8	1028.7
180°	1028.7	1028.7	1028.7	1028.7	1028.7	1028.7

(END OF REPORT)