

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: P621598

Luminaire Tested: VLT-FA-025U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621598
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-025U-125D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

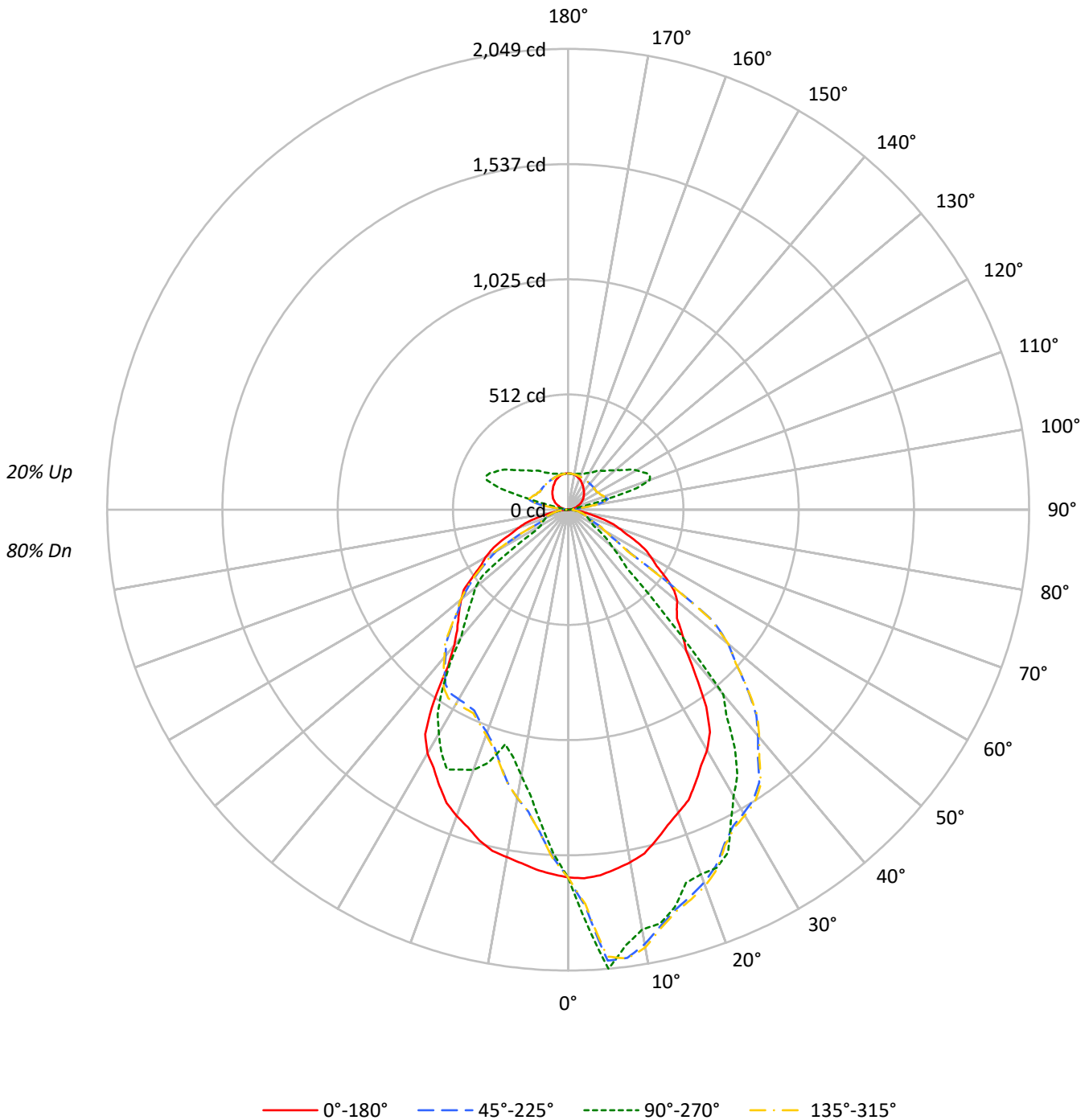
Lumens per Lamp: N/A
Luminaire Lumens: 4238.2 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 47
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	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	106	102	98	95	101	98	94	92	90	87	85	82	81	79	76	74	73	70				
2	97	90	85	80	93	87	82	77	80	76	73	74	71	68	68	66	64	61				
3	90	81	74	68	86	78	71	66	72	67	63	67	63	59	62	58	56	53				
4	83	72	65	59	79	70	63	57	65	59	55	60	56	52	56	52	49	46				
5	77	65	57	52	73	63	56	50	59	53	48	55	50	46	51	47	43	41				
6	71	59	51	46	68	57	50	45	53	47	43	50	45	41	47	42	39	37				
7	66	54	46	41	63	52	45	40	49	43	38	46	41	37	43	38	35	33				
8	62	49	42	36	59	48	41	36	45	39	34	42	37	33	40	35	32	30				
9	58	45	38	33	55	44	37	32	42	35	31	39	34	30	37	32	29	27				
10	54	42	35	30	52	41	34	29	38	33	28	36	31	27	34	30	26	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11733	11733	11733	11733
5°	11754	14760	11574	10064
10°	11598	13805	11429	8738
15°	11282	13592	11319	8020
20°	10936	13171	11063	9399
25°	10601	13315	10720	10088
30°	10226	12183	10364	9523
35°	9369	11292	9136	8539
40°	7635	10049	7369	6949
45°	6937	3731	7005	6330
50°	7056	2841	6926	6016
55°	6658	2206	6429	3599
60°	6135	1695	6087	2005
65°	5649	1751	5535	2117
70°	5025	1851	4886	2199
75°	4289	1938	4103	2260
80°	3232	1992	3025	2339
85°	2190	1778	1918	2190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12846 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	3.7
10°-20°	432.1	10.2
20°-30°	646.5	15.3
30°-40°	735.2	17.3
40°-50°	628.8	14.8
50°-60°	424.0	10.0
60°-70°	218.9	5.2
70°-80°	98.8	2.3
80°-90°	29.8	0.7
90°-100°	19.8	0.5
100°-110°	141.3	3.3
110°-120°	191.9	4.5
120°-130°	156.1	3.7
130°-140°	125.6	3.0
140°-150°	99.0	2.3
150°-160°	72.4	1.7
160°-170°	45.0	1.1
170°-180°	15.3	0.4
0°-30°	1236.3	29.2
0°-40°	1971.5	46.5
0°-60°	3024.3	71.4
0°-90°	3371.8	79.6
90°-120°	353.0	8.3
90°-150°	733.8	17.3
90°-180°	866.0	20.4
0°-180°	4238.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1635	1635	1635	1635	1635	
5°	1632	2049	1607	1397	1632	154
15°	1519	1830	1524	1080	1519	427
25°	1339	1682	1354	1274	1339	616
35°	1070	1289	1043	975	1070	654
45°	684	368	690	624	684	542
55°	532	176	514	288	532	474
65°	333	103	326	125	333	329
75°	155	70	148	82	155	165
85°	27	22	23	27	27	34
90°	0	3	0	3	0	1
95°	8	11	8	11	8	9
105°	31	155	31	155	31	33
115°	56	384	56	384	56	55
125°	80	308	80	308	80	71
135°	99	246	99	246	99	76
145°	118	207	118	207	118	74
155°	138	178	138	178	138	63
165°	153	165	153	165	153	43
175°	161	159	161	159	161	15
180°	161	161	161	161	161	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1640.3	1696.3	1766.7	1815.1	1835.9	1815.1	1754.7	1695.8	1621.7	1599.6	1547.2
5°	1631.7	1804.1	2012.6	2037.8	2049.1	2037.8	1994.3	1793.7	1606.7	1527.0	1440.4
7.5°	1611.7	1913.2	2010.2	1954.0	1954.3	1964.7	2013.2	1903.9	1585.8	1460.5	1354.2
10°	1591.7	1973.9	1961.0	1879.8	1894.5	1888.0	1976.0	1962.0	1568.5	1423.7	1302.3
12.5°	1565.1	1992.9	1895.8	1869.2	1885.1	1876.0	1905.4	1982.5	1553.8	1397.4	1242.5
15°	1518.6	1965.8	1841.2	1829.6	1829.6	1837.7	1849.6	1974.0	1523.6	1349.5	1169.3
17.5°	1470.7	1911.7	1803.3	1745.6	1739.4	1750.2	1817.0	1925.6	1480.6	1296.5	1098.4
20°	1432.1	1874.4	1764.7	1697.2	1724.8	1700.4	1779.7	1884.6	1448.7	1263.3	1054.5
22.5°	1397.5	1828.1	1715.5	1686.7	1723.5	1687.4	1729.1	1838.2	1411.4	1226.0	1021.2
25°	1338.9	1750.4	1641.6	1668.6	1681.6	1668.6	1648.3	1757.2	1353.9	1178.3	986.3
27.5°	1280.7	1668.4	1586.4	1604.5	1564.8	1595.4	1595.4	1668.7	1294.7	1122.6	975.7
30°	1234.1	1611.4	1558.5	1532.1	1470.3	1519.1	1570.1	1611.8	1250.8	1086.5	973.0
32.5°	1172.9	1559.3	1530.5	1439.5	1399.8	1433.0	1543.5	1558.3	1182.9	1053.8	970.3
35°	1069.5	1485.8	1480.3	1329.7	1289.0	1319.9	1491.9	1482.0	1042.9	1002.2	949.7
37.5°	930.8	1420.3	1384.2	1218.7	1154.0	1210.6	1395.1	1413.2	877.2	954.9	901.5
40°	815.0	1376.1	1312.3	1136.2	1072.8	1128.1	1320.6	1372.2	786.7	921.7	848.3
42.5°	749.8	1336.9	1236.5	1048.9	656.3	1035.6	1244.8	1331.9	730.8	878.8	801.7
45°	683.6	1265.8	1126.0	580.6	367.6	553.0	1127.7	1248.1	690.3	813.9	730.2
47.5°	654.7	1178.3	1010.6	349.7	310.4	339.6	1009.6	1159.1	655.0	748.7	662.0
50°	632.0	1123.2	928.1	308.1	254.5	296.8	929.8	1105.0	620.4	705.0	615.4
52.5°	594.8	1057.3	809.7	255.3	219.9	249.2	790.1	1036.6	584.5	657.3	556.9
55°	532.2	930.7	337.6	200.7	176.3	192.6	321.0	899.4	513.9	582.3	489.0
57.5°	466.0	792.3	236.8	156.2	136.7	154.6	235.2	760.5	457.4	493.2	426.5
60°	427.5	699.1	192.9	131.1	118.1	129.5	191.3	671.3	424.1	433.9	369.2
62.5°	388.9	604.5	159.7	115.3	111.4	113.7	159.3	574.1	382.9	383.5	260.1
65°	332.7	457.9	118.1	104.7	103.1	103.1	114.8	441.5	326.0	316.2	149.7
67.5°	275.4	328.8	94.8	96.4	94.8	94.8	93.1	319.5	268.8	252.2	113.1
70°	239.5	252.5	88.2	89.8	88.2	88.2	86.5	245.9	232.9	195.5	106.4
72.5°	204.9	172.4	81.5	81.8	81.5	81.5	79.8	161.8	198.3	137.4	97.1
75°	154.7	86.4	69.9	69.9	69.9	69.9	68.2	83.0	148.0	89.5	83.2
77.5°	107.4	57.0	57.9	57.5	57.5	56.2	56.2	56.6	101.1	61.8	67.2
80°	78.2	47.3	49.9	48.2	48.2	48.2	48.2	45.5	73.2	52.0	56.6
82.5°	55.6	37.7	40.6	38.9	38.9	38.9	38.9	37.2	50.6	42.4	45.9
85°	26.6	25.0	26.6	23.2	21.6	23.2	24.9	24.9	23.3	28.2	29.9
87.5°	8.0	12.1	11.1	8.6	8.6	8.6	9.7	10.8	6.7	13.4	12.4
90°	0.0	1.0	2.0	3.0	3.0	3.0	2.0	1.0	0.0	1.0	2.0
92.5°	2.4	3.4	4.5	6.3	7.1	6.3	4.5	3.4	2.4	3.4	4.5
95°	8.1	15.1	8.1	9.2	11.2	9.2	8.1	15.1	8.1	15.1	8.1
97.5°	14.4	28.9	59.7	17.6	15.2	17.6	59.7	28.9	14.4	28.9	59.7
100°	19.3	36.1	119.7	35.2	23.3	35.2	119.7	36.1	19.3	36.1	119.7
102.5°	24.1	41.8	161.9	93.0	50.9	93.0	161.9	41.8	24.1	41.8	161.9
105°	31.4	48.3	183.6	234.6	155.2	234.6	183.6	48.3	31.4	48.3	183.6
107.5°	38.8	51.5	175.3	341.4	319.8	341.4	175.3	51.5	38.8	51.5	175.3
110°	43.6	55.5	170.4	358.7	385.5	358.7	170.4	55.5	43.6	55.5	170.4



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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°	48.5	60.4	165.6	348.6	393.6	348.6	165.6	60.4	48.5	60.4	165.6
115°	55.8	67.7	158.3	328.9	384.5	328.9	158.3	67.7	55.8	67.7	158.3
117.5°	63.3	75.0	156.4	307.7	364.8	307.7	156.4	75.0	63.3	75.0	156.4
120°	69.0	79.9	153.2	291.5	351.0	291.5	153.2	79.9	69.0	79.9	153.2
122.5°	73.0	84.7	149.1	277.6	332.3	277.6	149.1	84.7	73.0	84.7	149.1
125°	80.1	91.1	149.1	260.8	308.4	260.8	149.1	91.1	80.1	91.1	149.1
127.5°	86.0	97.1	149.3	241.3	288.3	241.3	149.3	97.1	86.0	97.1	149.3
130°	89.3	101.2	150.1	228.3	272.9	228.3	150.1	101.2	89.3	101.2	150.1
132.5°	93.3	105.2	150.1	222.4	259.1	222.4	150.1	105.2	93.3	105.2	150.1
135°	99.4	110.3	150.1	214.8	246.5	214.8	150.1	110.3	99.4	110.3	150.1
137.5°	104.5	116.2	150.1	206.4	233.5	206.4	150.1	116.2	104.5	116.2	150.1
140°	108.6	119.5	150.1	201.4	226.2	201.4	150.1	119.5	108.6	119.5	150.1
142.5°	112.6	122.7	151.0	195.7	218.9	195.7	151.0	122.7	112.6	122.7	151.0
145°	117.7	127.6	151.2	187.1	207.0	187.1	151.2	127.6	117.7	127.6	151.2
147.5°	123.8	132.5	152.4	180.9	196.2	180.9	152.4	132.5	123.8	132.5	152.4
150°	127.8	135.8	153.2	176.8	189.7	176.8	153.2	135.8	127.8	135.8	153.2
152.5°	131.9	139.0	153.2	173.5	184.0	173.5	153.2	139.0	131.9	139.0	153.2
155°	138.0	142.9	154.2	169.6	177.5	169.6	154.2	142.9	138.0	142.9	154.2
157.5°	142.8	147.6	155.4	167.1	172.9	167.1	155.4	147.6	142.8	147.6	155.4
160°	146.1	150.1	156.2	165.5	170.4	165.5	156.2	150.1	146.1	150.1	156.2
162.5°	148.5	152.5	157.0	164.6	168.0	164.6	157.0	152.5	148.5	152.5	157.0
165°	153.2	155.2	158.3	162.4	165.4	162.4	158.3	155.2	153.2	155.2	158.3
167.5°	155.8	157.6	159.3	161.3	163.1	161.3	159.3	157.6	155.8	157.6	159.3
170°	158.3	159.3	159.3	161.3	162.3	161.3	159.3	159.3	158.3	159.3	159.3
172.5°	159.1	160.9	160.1	160.5	161.5	160.5	160.1	160.9	159.1	160.9	160.1
175°	161.3	162.3	161.3	160.3	159.3	160.3	161.3	162.3	161.3	162.3	161.3
177.5°	161.3	162.1	161.3	161.3	160.5	161.3	161.3	162.1	161.3	162.1	161.3
180°	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1528.5	1527.2	1529.8	1552.5	1598.7	1640.3
5°	1392.3	1397.1	1402.0	1440.4	1521.1	1631.7
7.5°	1287.5	1280.4	1291.4	1353.9	1453.0	1611.7
10°	1215.5	1199.2	1215.5	1300.7	1416.1	1591.7
12.5°	1147.5	1127.4	1152.7	1246.1	1385.6	1565.1
15°	1059.9	1079.5	1068.1	1172.6	1339.7	1518.6
17.5°	1080.7	1178.9	1101.5	1108.7	1294.0	1470.7
20°	1130.0	1230.8	1162.5	1066.2	1264.6	1432.1
22.5°	1174.7	1250.8	1189.0	1030.2	1235.2	1397.5
25°	1209.0	1274.1	1205.8	998.0	1192.6	1338.9
27.5°	1210.7	1219.8	1211.4	995.3	1139.9	1280.7
30°	1188.3	1149.3	1185.1	998.0	1102.4	1234.1
32.5°	1124.4	1080.1	1110.7	992.6	1064.6	1172.9
35°	1033.2	974.7	1017.0	964.7	1006.1	1069.5
37.5°	937.1	862.9	921.4	909.5	956.1	930.8
40°	871.9	741.8	858.9	854.9	928.8	815.0
42.5°	788.5	677.9	776.8	811.0	898.8	749.8
45°	636.7	623.7	630.2	736.8	834.8	683.6
47.5°	582.3	573.5	579.0	669.3	762.6	654.7
50°	550.3	538.9	547.0	625.4	716.6	632.0
52.5°	505.9	475.0	502.7	565.5	668.9	594.8
55°	380.4	287.7	378.8	497.3	597.3	532.2
57.5°	223.2	166.3	218.4	432.8	506.1	466.0
60°	151.1	139.7	152.7	380.9	445.3	427.5
62.5°	138.0	134.4	138.3	265.1	391.1	388.9
65°	126.4	124.7	126.4	153.0	322.9	332.7
67.5°	114.4	112.8	115.7	117.4	254.9	275.4
70°	106.4	104.8	106.4	108.1	195.6	239.5
72.5°	97.1	95.5	97.1	98.8	137.6	204.9
75°	83.1	81.5	83.1	84.8	91.3	154.7
77.5°	67.2	67.2	68.8	68.9	63.9	107.4
80°	56.6	56.6	58.2	58.2	55.4	78.2
82.5°	45.9	44.6	47.5	48.9	45.8	55.6
85°	28.2	26.6	29.9	31.6	29.9	26.6
87.5°	11.2	9.9	12.5	15.0	14.7	8.0
90°	3.0	3.0	3.0	2.0	1.0	0.0
92.5°	6.3	7.1	6.3	4.5	3.4	2.4
95°	9.2	11.2	9.2	8.1	15.1	8.1
97.5°	17.6	15.2	17.6	59.7	28.9	14.4
100°	35.2	23.3	35.2	119.7	36.1	19.3
102.5°	93.0	50.9	93.0	161.9	41.8	24.1
105°	234.6	155.2	234.6	183.6	48.3	31.4
107.5°	341.4	319.8	341.4	175.3	51.5	38.8
110°	358.7	385.5	358.7	170.4	55.5	43.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	348.6	393.6	348.6	165.6	60.4	48.5
115°	328.9	384.5	328.9	158.3	67.7	55.8
117.5°	307.7	364.8	307.7	156.4	75.0	63.3
120°	291.5	351.0	291.5	153.2	79.9	69.0
122.5°	277.6	332.3	277.6	149.1	84.7	73.0
125°	260.8	308.4	260.8	149.1	91.1	80.1
127.5°	241.3	288.3	241.3	149.3	97.1	86.0
130°	228.3	272.9	228.3	150.1	101.2	89.3
132.5°	222.4	259.1	222.4	150.1	105.2	93.3
135°	214.8	246.5	214.8	150.1	110.3	99.4
137.5°	206.4	233.5	206.4	150.1	116.2	104.5
140°	201.4	226.2	201.4	150.1	119.5	108.6
142.5°	195.7	218.9	195.7	151.0	122.7	112.6
145°	187.1	207.0	187.1	151.2	127.6	117.7
147.5°	180.9	196.2	180.9	152.4	132.5	123.8
150°	176.8	189.7	176.8	153.2	135.8	127.8
152.5°	173.5	184.0	173.5	153.2	139.0	131.9
155°	169.6	177.5	169.6	154.2	142.9	138.0
157.5°	167.1	172.9	167.1	155.4	147.6	142.8
160°	165.5	170.4	165.5	156.2	150.1	146.1
162.5°	164.6	168.0	164.6	157.0	152.5	148.5
165°	162.4	165.4	162.4	158.3	155.2	153.2
167.5°	161.3	163.1	161.3	159.3	157.6	155.8
170°	161.3	162.3	161.3	159.3	159.3	158.3
172.5°	160.5	161.5	160.5	160.1	160.9	159.1
175°	160.3	159.3	160.3	161.3	162.3	161.3
177.5°	161.3	160.5	161.3	161.3	162.1	161.3
180°	161.3	161.3	161.3	161.3	161.3	161.3

(END OF REPORT)