

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: P621715

Luminaire Tested: VLT-FA-125U-125D-830-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621715
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-125D-830-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

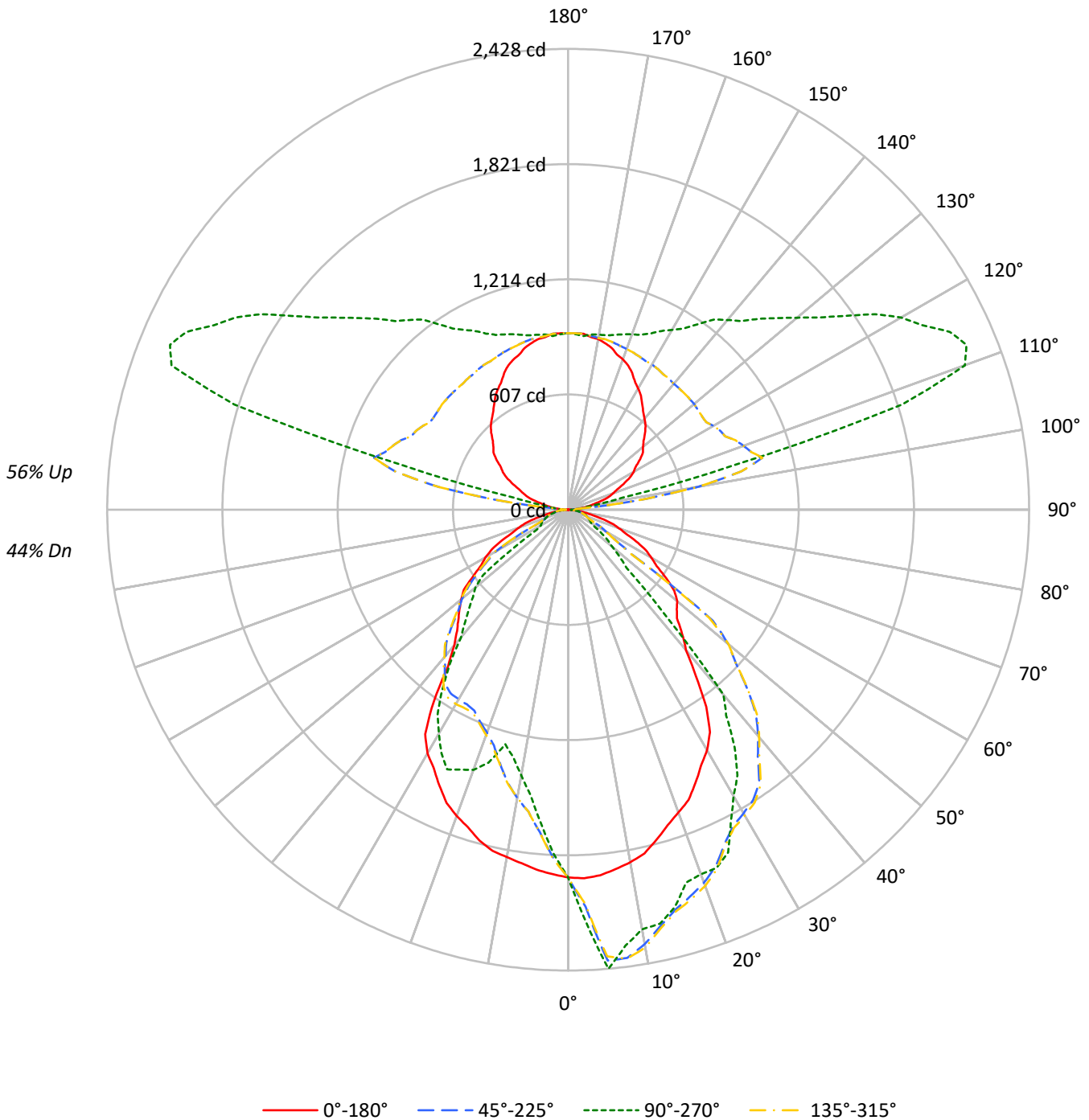
Lumens per Lamp: N/A
Luminaire Lumens: 8993.8 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 76.9
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			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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	90	86	89	86	83	80	71	69	67	58	57	56	46	45	45	39
2	89	82	77	72	82	76	71	67	63	60	57	52	50	48	42	40	39	34
3	82	73	66	61	75	67	61	57	57	52	49	47	44	41	38	35	34	29
4	75	65	58	52	69	60	54	49	51	46	42	42	39	36	34	32	30	26
5	69	58	51	45	63	54	47	42	46	41	37	38	34	31	31	28	26	23
6	64	52	45	39	59	49	42	37	41	36	32	35	31	28	28	25	23	20
7	59	47	40	35	54	44	37	33	38	32	29	32	28	25	26	23	21	18
8	55	43	36	31	50	40	34	29	34	29	26	29	25	22	24	21	19	17
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	22	19	17	15
10	48	36	29	25	44	34	28	23	29	24	21	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13902	13902	13902	13902
5°	13927	17490	13714	11925
10°	13743	16356	13542	10354
15°	13367	16106	13412	9503
20°	12958	15607	13109	11137
25°	12562	15776	12702	11953
30°	12117	14436	12280	11284
35°	11101	13380	10825	10117
40°	9046	11908	8732	8234
45°	8220	4420	8300	7501
50°	8361	3366	8206	7128
55°	7891	2614	7619	4265
60°	7269	2008	7213	2375
65°	6693	2075	6559	2510
70°	5954	2193	5789	2606
75°	5082	2296	4863	2678
80°	3827	2364	3583	2769
85°	2594	2108	2272	2594

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15221 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	2.1
10°-20°	511.9	5.7
20°-30°	766.0	8.5
30°-40°	871.2	9.7
40°-50°	745.1	8.3
50°-60°	502.4	5.6
60°-70°	259.3	2.9
70°-80°	117.1	1.3
80°-90°	36.9	0.4
90°-100°	114.4	1.3
100°-110°	815.0	9.1
110°-120°	1106.4	12.3
120°-130°	900.5	10.0
130°-140°	724.3	8.1
140°-150°	571.0	6.3
150°-160°	417.5	4.6
160°-170°	259.3	2.9
170°-180°	88.4	1.0
0°-30°	1464.9	16.3
0°-40°	2336.0	26.0
0°-60°	3583.5	39.8
0°-90°	3996.9	44.4
90°-120°	2035.8	22.6
90°-150°	4231.6	47.1
90°-180°	4997.0	55.6
0°-180°	8993.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1937	1937	1937	1937	1937	
5°	1933	2428	1904	1656	1933	183
15°	1799	2168	1805	1279	1799	506
25°	1586	1992	1604	1510	1586	730
35°	1267	1527	1236	1155	1267	775
45°	810	436	818	739	810	643
55°	631	209	609	341	631	562
65°	394	122	386	148	394	390
75°	183	83	175	97	183	195
85°	32	26	28	32	32	40
90°	0	18	0	18	0	3
95°	47	64	47	64	47	52
105°	181	895	181	895	181	191
115°	322	2217	322	2217	322	319
125°	462	1778	462	1778	462	411
135°	573	1422	573	1422	573	441
145°	679	1194	679	1194	679	426
155°	796	1024	796	1024	796	365
165°	883	954	883	954	883	248
175°	930	918	930	918	930	88
180°	930	930	930	930	930	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3
2.5°	1943.6	2009.9	2093.4	2150.7	2175.4	2150.7	2079.2	2009.4	1921.5	1895.3	1833.2
5°	1933.4	2137.6	2384.7	2414.5	2428.0	2414.5	2363.0	2125.4	1903.8	1809.4	1706.7
7.5°	1909.7	2267.0	2381.9	2315.3	2315.7	2328.0	2385.5	2255.9	1879.0	1730.6	1604.6
10°	1886.1	2338.9	2323.6	2227.4	2244.7	2237.0	2341.3	2324.8	1858.5	1687.0	1543.1
12.5°	1854.5	2361.3	2246.3	2214.8	2233.7	2222.9	2257.8	2349.1	1841.1	1655.7	1472.2
15°	1799.3	2329.3	2181.7	2167.9	2167.9	2177.5	2191.5	2339.0	1805.3	1599.1	1385.5
17.5°	1742.6	2265.2	2136.7	2068.4	2061.1	2073.8	2152.9	2281.6	1754.4	1536.3	1301.5
20°	1696.9	2221.0	2091.0	2011.0	2043.7	2014.8	2108.8	2233.0	1716.6	1496.9	1249.5
22.5°	1655.9	2166.1	2032.7	1998.6	2042.1	1999.4	2048.8	2178.1	1672.4	1452.7	1210.1
25°	1586.5	2074.0	1945.2	1977.1	1992.5	1977.1	1953.1	2082.1	1604.2	1396.1	1168.7
27.5°	1517.5	1976.9	1879.8	1901.2	1854.1	1890.4	1890.4	1977.3	1534.1	1330.2	1156.1
30°	1462.3	1909.4	1846.6	1815.4	1742.2	1800.0	1860.4	1909.8	1482.0	1287.4	1152.9
32.5°	1389.8	1847.7	1813.5	1705.6	1658.6	1697.9	1828.9	1846.4	1401.6	1248.6	1149.8
35°	1267.2	1760.5	1754.0	1575.5	1527.4	1564.0	1767.8	1756.0	1235.7	1187.5	1125.3
37.5°	1102.9	1682.9	1640.1	1444.0	1367.3	1434.4	1653.1	1674.5	1039.4	1131.5	1068.2
40°	965.7	1630.5	1555.0	1346.3	1271.2	1336.7	1564.8	1625.9	932.2	1092.1	1005.1
42.5°	888.4	1584.1	1465.1	1242.9	777.7	1227.1	1475.0	1578.2	866.0	1041.3	949.9
45°	810.0	1499.9	1334.2	688.0	435.5	655.2	1336.2	1478.8	817.9	964.3	865.2
47.5°	775.7	1396.2	1197.5	414.4	367.8	402.4	1196.3	1373.5	776.1	887.1	784.4
50°	748.9	1330.9	1099.7	365.1	301.5	351.6	1101.7	1309.4	735.1	835.3	729.2
52.5°	704.8	1252.8	959.4	302.5	260.5	295.2	936.1	1228.2	692.5	778.9	659.8
55°	630.7	1102.8	400.1	237.8	208.9	228.2	380.4	1065.7	609.0	689.9	579.4
57.5°	552.2	938.8	280.6	185.1	162.0	183.2	278.7	901.2	542.0	584.4	505.3
60°	506.5	828.3	228.6	155.3	139.9	153.4	226.6	795.5	502.6	514.1	437.5
62.5°	460.8	716.3	189.2	136.7	132.0	134.7	188.8	680.3	453.7	454.5	308.2
65°	394.2	542.5	139.9	124.1	122.2	122.2	136.0	523.1	386.3	374.7	177.4
67.5°	326.4	389.6	112.3	114.3	112.3	112.3	110.4	378.6	318.5	298.8	134.0
70°	283.8	299.2	104.5	106.4	104.5	104.5	102.5	291.3	275.9	231.6	126.1
72.5°	242.8	204.3	96.6	97.0	96.6	96.6	94.6	191.8	234.9	162.8	115.1
75°	183.3	102.4	82.8	82.8	82.8	82.8	80.8	98.3	175.4	106.0	98.5
77.5°	127.3	67.6	68.6	68.2	68.2	66.6	66.6	67.0	119.8	73.2	79.6
80°	92.6	56.0	59.1	57.2	57.2	57.2	57.2	54.0	86.7	61.7	67.0
82.5°	65.8	44.6	48.1	46.1	46.1	46.1	46.1	44.1	59.9	50.3	54.4
85°	31.5	29.6	31.5	27.5	25.6	27.5	29.6	29.5	27.6	33.4	35.5
87.5°	9.5	15.2	15.0	13.0	13.0	13.0	13.4	13.7	7.9	16.7	16.5
90°	0.0	5.7	11.7	17.6	17.6	17.6	11.7	5.7	0.0	5.7	11.7
92.5°	14.0	19.8	25.7	36.4	41.0	36.4	25.7	19.8	14.0	19.8	25.7
95°	46.8	86.8	46.8	52.9	64.4	52.9	46.8	86.8	46.8	86.8	46.8
97.5°	83.1	166.6	344.0	101.5	87.8	101.5	344.0	166.6	83.1	166.6	344.0
100°	111.2	208.4	690.3	203.2	134.6	203.2	690.3	208.4	111.2	208.4	690.3
102.5°	139.2	241.1	933.7	536.2	293.7	536.2	933.7	241.1	139.2	241.1	933.7
105°	181.4	278.6	1058.9	1352.7	895.1	1352.7	1058.9	278.6	181.4	278.6	1058.9
107.5°	223.5	296.7	1011.0	1968.8	1844.0	1968.8	1011.0	296.7	223.5	296.7	1011.0
110°	251.6	320.2	982.9	2068.7	2223.2	2068.7	982.9	320.2	251.6	320.2	982.9



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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°	279.6	348.3	954.8	2010.3	2270.0	2010.3	954.8	348.3	279.6	348.3	954.8
115°	321.8	390.4	912.7	1897.0	2217.3	1897.0	912.7	390.4	321.8	390.4	912.7
117.5°	365.1	432.6	902.1	1774.3	2103.8	1774.3	902.1	432.6	365.1	432.6	902.1
120°	397.8	460.8	883.4	1681.0	2024.2	1681.0	883.4	460.8	397.8	460.8	883.4
122.5°	421.2	488.7	860.0	1600.8	1916.6	1600.8	860.0	488.7	421.2	488.7	860.0
125°	462.2	525.1	860.0	1503.9	1778.5	1503.9	860.0	525.1	462.2	525.1	860.0
127.5°	496.1	560.2	861.2	1391.5	1662.7	1391.5	861.2	560.2	496.1	560.2	861.2
130°	514.8	583.5	865.9	1316.3	1573.8	1316.3	865.9	583.5	514.8	583.5	865.9
132.5°	538.2	606.9	865.9	1282.5	1494.2	1282.5	865.9	606.9	538.2	606.9	865.9
135°	573.3	636.3	865.9	1238.6	1421.7	1238.6	865.9	636.3	573.3	636.3	865.9
137.5°	602.6	670.1	865.9	1190.0	1346.8	1190.0	865.9	670.1	602.6	670.1	865.9
140°	626.0	688.9	865.9	1161.6	1304.6	1161.6	865.9	688.9	626.0	688.9	865.9
142.5°	649.4	707.7	870.5	1128.7	1262.5	1128.7	870.5	707.7	649.4	707.7	870.5
145°	678.6	735.9	871.7	1079.1	1193.5	1079.1	871.7	735.9	678.6	735.9	871.7
147.5°	713.8	764.1	878.7	1043.4	1131.5	1043.4	878.7	764.1	713.8	764.1	878.7
150°	737.2	782.9	883.4	1019.7	1094.0	1019.7	883.4	782.9	737.2	782.9	883.4
152.5°	760.6	801.7	883.4	1000.6	1061.3	1000.6	883.4	801.7	760.6	801.7	883.4
155°	795.7	824.3	889.3	978.1	1023.8	978.1	889.3	824.3	795.7	824.3	889.3
157.5°	823.7	851.2	896.3	963.7	996.9	963.7	896.3	851.2	823.7	851.2	896.3
160°	842.5	865.3	901.0	954.3	982.9	954.3	901.0	865.3	842.5	865.3	901.0
162.5°	856.5	879.4	905.6	949.4	968.8	949.4	905.6	879.4	856.5	879.4	905.6
165°	883.4	894.9	912.7	936.5	953.6	936.5	912.7	894.9	883.4	894.9	912.7
167.5°	898.6	908.9	918.5	930.4	940.7	930.4	918.5	908.9	898.6	908.9	918.5
170°	912.7	918.4	918.5	930.3	936.1	930.3	918.5	918.4	912.7	918.4	918.5
172.5°	917.3	927.6	923.2	925.7	931.4	925.7	923.2	927.6	917.3	927.6	923.2
175°	930.2	935.9	930.2	924.2	918.5	924.2	930.2	935.9	930.2	935.9	930.2
177.5°	930.2	934.8	930.2	930.1	925.5	930.1	930.2	934.8	930.2	934.8	930.2
180°	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3
2.5°	1811.1	1809.6	1812.7	1839.5	1894.3	1943.6
5°	1649.7	1655.5	1661.3	1706.7	1802.3	1933.4
7.5°	1525.6	1517.1	1530.2	1604.2	1721.6	1909.7
10°	1440.2	1421.0	1440.2	1541.2	1677.9	1886.1
12.5°	1359.7	1335.8	1365.9	1476.5	1641.8	1854.5
15°	1255.9	1279.1	1265.6	1389.4	1587.4	1799.3
17.5°	1280.5	1396.9	1305.2	1313.7	1533.3	1742.6
20°	1338.9	1458.4	1377.5	1263.3	1498.4	1696.9
22.5°	1391.9	1482.0	1408.8	1220.7	1463.6	1655.9
25°	1432.6	1509.6	1428.7	1182.5	1413.1	1586.5
27.5°	1434.6	1445.4	1435.4	1179.3	1350.6	1517.5
30°	1408.1	1361.8	1404.2	1182.5	1306.2	1462.3
32.5°	1332.3	1279.8	1316.1	1176.2	1261.5	1389.8
35°	1224.3	1154.9	1205.0	1143.1	1192.1	1267.2
37.5°	1110.3	1022.5	1091.8	1077.6	1132.9	1102.9
40°	1033.1	879.0	1017.7	1013.0	1100.6	965.7
42.5°	934.3	803.3	920.5	961.0	1065.0	888.4
45°	754.5	739.1	746.8	873.1	989.2	810.0
47.5°	689.9	679.5	686.1	793.1	903.7	775.7
50°	652.0	638.5	648.2	741.0	849.1	748.9
52.5°	599.5	562.9	595.6	670.1	792.6	704.8
55°	450.8	340.9	448.9	589.3	707.7	630.7
57.5°	264.5	197.1	258.7	512.8	599.6	552.2
60°	179.0	165.5	181.0	451.3	527.7	506.5
62.5°	163.5	159.2	163.9	314.1	463.5	460.8
65°	149.7	147.8	149.7	181.3	382.6	394.2
67.5°	135.5	133.6	137.1	139.1	302.1	326.4
70°	126.1	124.2	126.1	128.1	231.8	283.8
72.5°	115.1	113.1	115.1	117.1	163.0	242.8
75°	98.5	96.6	98.5	100.5	108.1	183.3
77.5°	79.6	79.6	81.5	81.6	75.7	127.3
80°	67.0	67.0	68.9	69.0	65.6	92.6
82.5°	54.4	52.8	56.3	57.9	54.3	65.8
85°	33.5	31.5	35.4	37.4	35.4	31.5
87.5°	16.1	14.5	17.6	19.7	18.3	9.5
90°	17.6	17.6	17.6	11.7	5.7	0.0
92.5°	36.4	41.0	36.4	25.7	19.8	14.0
95°	52.9	64.4	52.9	46.8	86.8	46.8
97.5°	101.5	87.8	101.5	344.0	166.6	83.1
100°	203.2	134.6	203.2	690.3	208.4	111.2
102.5°	536.2	293.7	536.2	933.7	241.1	139.2
105°	1352.7	895.1	1352.7	1058.9	278.6	181.4
107.5°	1968.8	1844.0	1968.8	1011.0	296.7	223.5
110°	2068.7	2223.2	2068.7	982.9	320.2	251.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2010.3	2270.0	2010.3	954.8	348.3	279.6
115°	1897.0	2217.3	1897.0	912.7	390.4	321.8
117.5°	1774.3	2103.8	1774.3	902.1	432.6	365.1
120°	1681.0	2024.2	1681.0	883.4	460.8	397.8
122.5°	1600.8	1916.6	1600.8	860.0	488.7	421.2
125°	1503.9	1778.5	1503.9	860.0	525.1	462.2
127.5°	1391.5	1662.7	1391.5	861.2	560.2	496.1
130°	1316.3	1573.8	1316.3	865.9	583.5	514.8
132.5°	1282.5	1494.2	1282.5	865.9	606.9	538.2
135°	1238.6	1421.7	1238.6	865.9	636.3	573.3
137.5°	1190.0	1346.8	1190.0	865.9	670.1	602.6
140°	1161.6	1304.6	1161.6	865.9	688.9	626.0
142.5°	1128.7	1262.5	1128.7	870.5	707.7	649.4
145°	1079.1	1193.5	1079.1	871.7	735.9	678.6
147.5°	1043.4	1131.5	1043.4	878.7	764.1	713.8
150°	1019.7	1094.0	1019.7	883.4	782.9	737.2
152.5°	1000.6	1061.3	1000.6	883.4	801.7	760.6
155°	978.1	1023.8	978.1	889.3	824.3	795.7
157.5°	963.7	996.9	963.7	896.3	851.2	823.7
160°	954.3	982.9	954.3	901.0	865.3	842.5
162.5°	949.4	968.8	949.4	905.6	879.4	856.5
165°	936.5	953.6	936.5	912.7	894.9	883.4
167.5°	930.4	940.7	930.4	918.5	908.9	898.6
170°	930.3	936.1	930.3	918.5	918.4	912.7
172.5°	925.7	931.4	925.7	923.2	927.6	917.3
175°	924.2	918.5	924.2	930.2	935.9	930.2
177.5°	930.1	925.5	930.1	930.2	934.8	930.2
180°	930.2	930.2	930.2	930.2	930.2	930.2

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