

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: P621631

Luminaire Tested: VLT-FA-075U-075D-830-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621631
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-075D-830-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

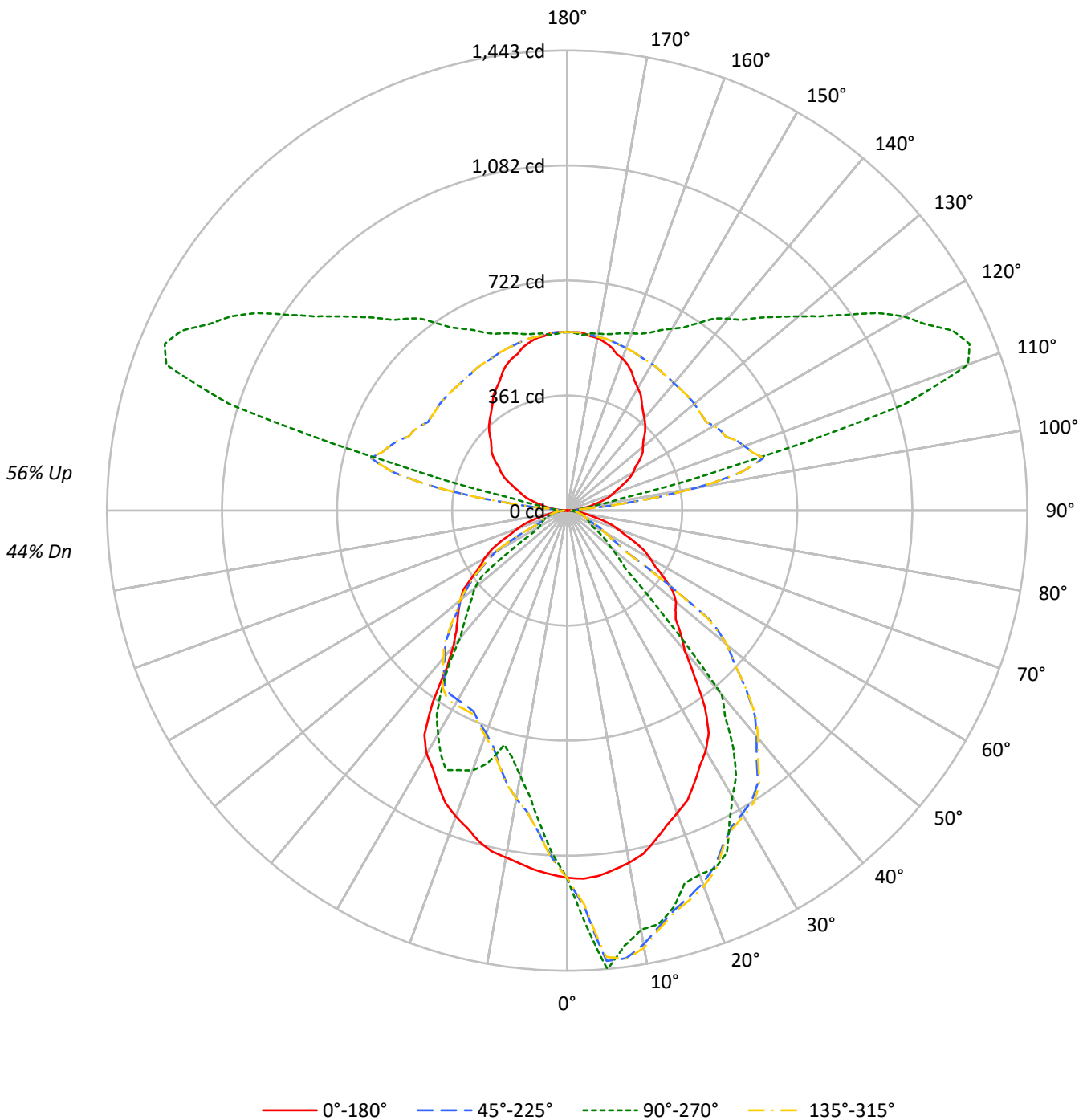
Lumens per Lamp: N/A
Luminaire Lumens: 5382.9 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.4
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	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	55	46	45	44	39
2	89	82	77	72	81	76	71	67	63	60	57	52	50	47	41	40	38	34
3	82	73	66	61	75	67	61	57	56	52	49	47	43	41	37	35	34	29
4	75	65	58	52	69	60	54	49	51	46	42	42	38	36	34	31	29	26
5	69	58	50	45	63	54	47	42	46	40	37	38	34	31	31	28	26	23
6	64	52	45	39	58	49	42	37	41	36	32	34	31	28	28	25	23	20
7	59	47	40	34	54	44	37	32	38	32	29	31	28	25	26	23	21	18
8	55	43	36	31	50	40	33	29	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	37	30	26	32	26	23	27	23	20	22	19	17	15
10	48	36	29	25	44	34	28	23	29	24	21	25	21	18	20	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8264	8264	8264	8264
5°	8279	10397	8152	7089
10°	8170	9723	8050	6155
15°	7946	9574	7972	5648
20°	7703	9278	7792	6620
25°	7467	9378	7550	7105
30°	7203	8581	7300	6708
35°	6599	7953	6435	6014
40°	5378	7078	5191	4895
45°	4886	2627	4934	4458
50°	4970	2001	4879	4238
55°	4690	1554	4529	2536
60°	4321	1194	4287	1412
65°	3978	1233	3899	1493
70°	3540	1303	3441	1548
75°	3022	1364	2892	1591
80°	2277	1405	2128	1645
85°	1540	1251	1350	1540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9048 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	2.1
10°-20°	304.3	5.7
20°-30°	455.4	8.5
30°-40°	517.9	9.6
40°-50°	442.9	8.2
50°-60°	298.7	5.5
60°-70°	154.2	2.9
70°-80°	69.6	1.3
80°-90°	22.0	0.4
90°-100°	68.8	1.3
100°-110°	490.4	9.1
110°-120°	665.8	12.4
120°-130°	541.9	10.1
130°-140°	435.8	8.1
140°-150°	343.6	6.4
150°-160°	251.2	4.7
160°-170°	156.1	2.9
170°-180°	53.2	1.0
0°-30°	870.8	16.2
0°-40°	1388.7	25.8
0°-60°	2130.2	39.6
0°-90°	2375.9	44.1
90°-120°	1225.1	22.8
90°-150°	2546.4	47.3
90°-180°	3007.0	55.9
0°-180°	5382.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1152	1152	1152	1152	1152	
5°	1149	1443	1132	984	1149	109
15°	1070	1289	1073	760	1070	301
25°	943	1184	954	897	943	434
35°	753	908	735	686	753	461
45°	482	259	486	439	482	382
55°	375	124	362	203	375	334
65°	234	73	230	88	234	232
75°	109	49	104	57	109	116
85°	19	15	16	19	19	24
90°	0	11	0	11	0	2
95°	28	39	28	39	28	31
105°	109	539	109	539	109	115
115°	194	1334	194	1334	194	192
125°	278	1070	278	1070	278	247
135°	345	856	345	856	345	265
145°	408	718	408	718	408	257
155°	479	616	479	616	479	220
165°	532	574	532	574	532	149
175°	560	553	560	553	560	53
180°	560	560	560	560	560	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6
2.5°	1155.4	1194.8	1244.4	1278.5	1293.2	1278.5	1236.0	1194.5	1142.3	1126.7	1089.8
5°	1149.3	1270.7	1417.6	1435.3	1443.3	1435.3	1404.7	1263.4	1131.7	1075.6	1014.6
7.5°	1135.2	1347.6	1415.9	1376.3	1376.6	1383.9	1418.0	1341.0	1117.0	1028.7	953.9
10°	1121.2	1390.4	1381.3	1324.1	1334.4	1329.8	1391.8	1382.0	1104.8	1002.8	917.3
12.5°	1102.4	1403.7	1335.3	1316.6	1327.8	1321.4	1342.1	1396.4	1094.5	984.3	875.1
15°	1069.6	1384.6	1296.9	1288.7	1288.7	1294.4	1302.8	1390.4	1073.1	950.6	823.6
17.5°	1035.9	1346.5	1270.2	1229.6	1225.2	1232.8	1279.8	1356.3	1042.9	913.2	773.7
20°	1008.7	1320.3	1243.0	1195.4	1214.9	1197.7	1253.6	1327.4	1020.4	889.8	742.8
22.5°	984.3	1287.7	1208.3	1188.1	1214.0	1188.5	1217.9	1294.8	994.2	863.6	719.3
25°	943.1	1232.9	1156.3	1175.3	1184.4	1175.3	1161.0	1237.7	953.6	829.9	694.7
27.5°	902.1	1175.2	1117.4	1130.1	1102.2	1123.7	1123.7	1175.4	911.9	790.7	687.2
30°	869.3	1135.0	1097.7	1079.2	1035.6	1070.0	1105.9	1135.3	881.0	765.3	685.4
32.5°	826.2	1098.3	1078.1	1013.9	986.0	1009.3	1087.2	1097.6	833.2	742.2	683.5
35°	753.3	1046.6	1042.7	936.6	907.9	929.7	1050.9	1043.8	734.6	705.9	669.0
37.5°	655.6	1000.4	975.0	858.4	812.8	852.7	982.7	995.4	617.9	672.6	635.0
40°	574.1	969.3	924.3	800.3	755.6	794.6	930.2	966.5	554.1	649.2	597.5
42.5°	528.1	941.7	870.9	738.8	462.3	729.4	876.8	938.2	514.8	619.0	564.7
45°	481.5	891.6	793.1	409.0	258.9	389.5	794.3	879.1	486.2	573.2	514.3
47.5°	461.1	830.0	711.8	246.3	218.6	239.2	711.1	816.5	461.4	527.3	466.3
50°	445.2	791.1	653.7	217.0	179.2	209.0	654.9	778.3	437.0	496.6	433.5
52.5°	418.9	744.7	570.3	179.9	154.9	175.5	556.5	730.1	411.7	463.0	392.2
55°	374.9	655.5	237.8	141.4	124.2	135.6	226.1	633.5	362.0	410.1	344.4
57.5°	328.3	558.1	166.8	110.0	96.3	108.9	165.7	535.7	322.2	347.4	300.4
60°	301.1	492.4	135.9	92.3	83.2	91.2	134.7	472.9	298.7	305.6	260.1
62.5°	273.9	425.8	112.5	81.2	78.5	80.1	112.2	404.4	269.7	270.1	183.2
65°	234.3	322.5	83.2	73.8	72.6	72.6	80.8	311.0	229.6	222.7	105.4
67.5°	194.0	231.6	66.8	67.9	66.8	66.8	65.6	225.1	189.3	177.6	79.7
70°	168.7	177.9	62.1	63.2	62.1	62.1	60.9	173.2	164.0	137.7	75.0
72.5°	144.3	121.4	57.4	57.6	57.4	57.4	56.2	114.0	139.6	96.8	68.4
75°	109.0	60.8	49.2	49.2	49.2	49.2	48.0	58.4	104.3	63.0	58.6
77.5°	75.7	40.2	40.8	40.5	40.5	39.6	39.6	39.8	71.2	43.5	47.3
80°	55.1	33.3	35.1	34.0	34.0	34.0	34.0	32.1	51.5	36.7	39.8
82.5°	39.1	26.5	28.6	27.4	27.4	27.4	27.4	26.2	35.6	29.9	32.3
85°	18.7	17.6	18.7	16.4	15.2	16.4	17.6	17.5	16.4	19.8	21.1
87.5°	5.6	9.1	8.9	7.7	7.7	7.7	8.0	8.1	4.7	10.0	9.8
90°	0.0	3.4	7.0	10.6	10.6	10.6	7.0	3.4	0.0	3.4	7.0
92.5°	8.4	11.9	15.5	21.9	24.6	21.9	15.5	11.9	8.4	11.9	15.5
95°	28.2	52.3	28.2	31.8	38.7	31.8	28.2	52.3	28.2	52.3	28.2
97.5°	50.0	100.3	207.0	61.1	52.8	61.1	207.0	100.3	50.0	100.3	207.0
100°	66.9	125.4	415.4	122.3	81.0	122.3	415.4	125.4	66.9	125.4	415.4
102.5°	83.8	145.1	561.9	322.7	176.7	322.7	561.9	145.1	83.8	145.1	561.9
105°	109.1	167.7	637.2	814.0	538.6	814.0	637.2	167.7	109.1	167.7	637.2
107.5°	134.5	178.5	608.4	1184.7	1109.7	1184.7	608.4	178.5	134.5	178.5	608.4
110°	151.4	192.7	591.5	1244.9	1337.8	1244.9	591.5	192.7	151.4	192.7	591.5



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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°	168.3	209.6	574.6	1209.7	1366.0	1209.7	574.6	209.6	168.3	209.6	574.6
115°	193.6	234.9	549.2	1141.5	1334.3	1141.5	549.2	234.9	193.6	234.9	549.2
117.5°	219.7	260.3	542.9	1067.7	1266.0	1067.7	542.9	260.3	219.7	260.3	542.9
120°	239.4	277.3	531.6	1011.6	1218.1	1011.6	531.6	277.3	239.4	277.3	531.6
122.5°	253.5	294.1	517.5	963.3	1153.3	963.3	517.5	294.1	253.5	294.1	517.5
125°	278.1	316.0	517.5	905.0	1070.3	905.0	517.5	316.0	278.1	316.0	517.5
127.5°	298.5	337.1	518.2	837.4	1000.5	837.4	518.2	337.1	298.5	337.1	518.2
130°	309.8	351.1	521.0	792.1	947.0	792.1	521.0	351.1	309.8	351.1	521.0
132.5°	323.9	365.2	521.0	771.8	899.2	771.8	521.0	365.2	323.9	365.2	521.0
135°	345.0	382.9	521.0	745.3	855.5	745.3	521.0	382.9	345.0	382.9	521.0
137.5°	362.6	403.2	521.0	716.1	810.4	716.1	521.0	403.2	362.6	403.2	521.0
140°	376.7	414.6	521.0	699.0	785.1	699.0	521.0	414.6	376.7	414.6	521.0
142.5°	390.8	425.9	523.9	679.2	759.7	679.2	523.9	425.9	390.8	425.9	523.9
145°	408.4	442.8	524.6	649.4	718.2	649.4	524.6	442.8	408.4	442.8	524.6
147.5°	429.5	459.8	528.8	627.9	680.9	627.9	528.8	459.8	429.5	459.8	528.8
150°	443.6	471.1	531.6	613.6	658.3	613.6	531.6	471.1	443.6	471.1	531.6
152.5°	457.7	482.5	531.6	602.1	638.6	602.1	531.6	482.5	457.7	482.5	531.6
155°	478.8	496.0	535.1	588.6	616.1	588.6	535.1	496.0	478.8	496.0	535.1
157.5°	495.7	512.2	539.4	579.9	599.9	579.9	539.4	512.2	495.7	512.2	539.4
160°	507.0	520.7	542.2	574.2	591.5	574.2	542.2	520.7	507.0	520.7	542.2
162.5°	515.4	529.2	545.0	571.3	583.0	571.3	545.0	529.2	515.4	529.2	545.0
165°	531.6	538.5	549.2	563.5	573.9	563.5	549.2	538.5	531.6	538.5	549.2
167.5°	540.8	547.0	552.7	559.9	566.1	559.9	552.7	547.0	540.8	547.0	552.7
170°	549.2	552.7	552.7	559.9	563.3	559.9	552.7	552.7	549.2	552.7	552.7
172.5°	552.0	558.2	555.5	557.0	560.5	557.0	555.5	558.2	552.0	558.2	555.5
175°	559.8	563.2	559.8	556.2	552.7	556.2	559.8	563.2	559.8	563.2	559.8
177.5°	559.8	562.5	559.8	559.7	557.0	559.7	559.8	562.5	559.8	562.5	559.8
180°	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6
2.5°	1076.6	1075.7	1077.5	1093.5	1126.1	1155.4
5°	980.7	984.1	987.5	1014.6	1071.4	1149.3
7.5°	906.9	901.9	909.6	953.6	1023.4	1135.2
10°	856.1	844.7	856.1	916.1	997.5	1121.2
12.5°	808.3	794.1	811.9	877.7	976.0	1102.4
15°	746.6	760.3	752.3	825.9	943.6	1069.6
17.5°	761.2	830.4	775.9	781.0	911.5	1035.9
20°	795.9	866.9	818.8	751.0	890.7	1008.7
22.5°	827.4	881.0	837.5	725.7	870.0	984.3
25°	851.6	897.4	849.3	702.9	840.0	943.1
27.5°	852.8	859.2	853.3	701.1	802.9	902.1
30°	837.0	809.5	834.7	702.9	776.5	869.3
32.5°	792.0	760.8	782.3	699.2	749.9	826.2
35°	727.8	686.5	716.3	679.5	708.6	753.3
37.5°	660.0	607.8	649.0	640.6	673.5	655.6
40°	614.1	522.5	605.0	602.2	654.2	574.1
42.5°	555.4	477.5	547.2	571.2	633.1	528.1
45°	448.5	439.3	443.9	519.0	588.0	481.5
47.5°	410.1	403.9	407.8	471.4	537.2	461.1
50°	387.6	379.6	385.3	440.5	504.8	445.2
52.5°	356.4	334.6	354.1	398.3	471.2	418.9
55°	268.0	202.7	266.8	350.3	420.7	374.9
57.5°	157.2	117.2	153.8	304.8	356.4	328.3
60°	106.4	98.4	107.6	268.3	313.7	301.1
62.5°	97.2	94.7	97.4	186.7	275.5	273.9
65°	89.0	87.9	89.0	107.8	227.4	234.3
67.5°	80.6	79.4	81.5	82.7	179.6	194.0
70°	75.0	73.8	75.0	76.2	137.8	168.7
72.5°	68.4	67.2	68.4	69.6	96.9	144.3
75°	58.6	57.4	58.6	59.7	64.3	109.0
77.5°	47.3	47.3	48.5	48.5	45.0	75.7
80°	39.8	39.8	41.0	41.0	39.0	55.1
82.5°	32.3	31.4	33.5	34.4	32.3	39.1
85°	19.9	18.7	21.0	22.3	21.0	18.7
87.5°	9.6	8.7	10.5	11.7	10.9	5.6
90°	10.6	10.6	10.6	7.0	3.4	0.0
92.5°	21.9	24.6	21.9	15.5	11.9	8.4
95°	31.8	38.7	31.8	28.2	52.3	28.2
97.5°	61.1	52.8	61.1	207.0	100.3	50.0
100°	122.3	81.0	122.3	415.4	125.4	66.9
102.5°	322.7	176.7	322.7	561.9	145.1	83.8
105°	814.0	538.6	814.0	637.2	167.7	109.1
107.5°	1184.7	1109.7	1184.7	608.4	178.5	134.5
110°	1244.9	1337.8	1244.9	591.5	192.7	151.4



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1209.7	1366.0	1209.7	574.6	209.6	168.3
115°	1141.5	1334.3	1141.5	549.2	234.9	193.6
117.5°	1067.7	1266.0	1067.7	542.9	260.3	219.7
120°	1011.6	1218.1	1011.6	531.6	277.3	239.4
122.5°	963.3	1153.3	963.3	517.5	294.1	253.5
125°	905.0	1070.3	905.0	517.5	316.0	278.1
127.5°	837.4	1000.5	837.4	518.2	337.1	298.5
130°	792.1	947.0	792.1	521.0	351.1	309.8
132.5°	771.8	899.2	771.8	521.0	365.2	323.9
135°	745.3	855.5	745.3	521.0	382.9	345.0
137.5°	716.1	810.4	716.1	521.0	403.2	362.6
140°	699.0	785.1	699.0	521.0	414.6	376.7
142.5°	679.2	759.7	679.2	523.9	425.9	390.8
145°	649.4	718.2	649.4	524.6	442.8	408.4
147.5°	627.9	680.9	627.9	528.8	459.8	429.5
150°	613.6	658.3	613.6	531.6	471.1	443.6
152.5°	602.1	638.6	602.1	531.6	482.5	457.7
155°	588.6	616.1	588.6	535.1	496.0	478.8
157.5°	579.9	599.9	579.9	539.4	512.2	495.7
160°	574.2	591.5	574.2	542.2	520.7	507.0
162.5°	571.3	583.0	571.3	545.0	529.2	515.4
165°	563.5	573.9	563.5	549.2	538.5	531.6
167.5°	559.9	566.1	559.9	552.7	547.0	540.8
170°	559.9	563.3	559.9	552.7	552.7	549.2
172.5°	557.0	560.5	557.0	555.5	558.2	552.0
175°	556.2	552.7	556.2	559.8	563.2	559.8
177.5°	559.7	557.0	559.7	559.8	562.5	559.8
180°	559.8	559.8	559.8	559.8	559.8	559.8

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