

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: P621581

Luminaire Tested: VLT-FA-025U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621581
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-050D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

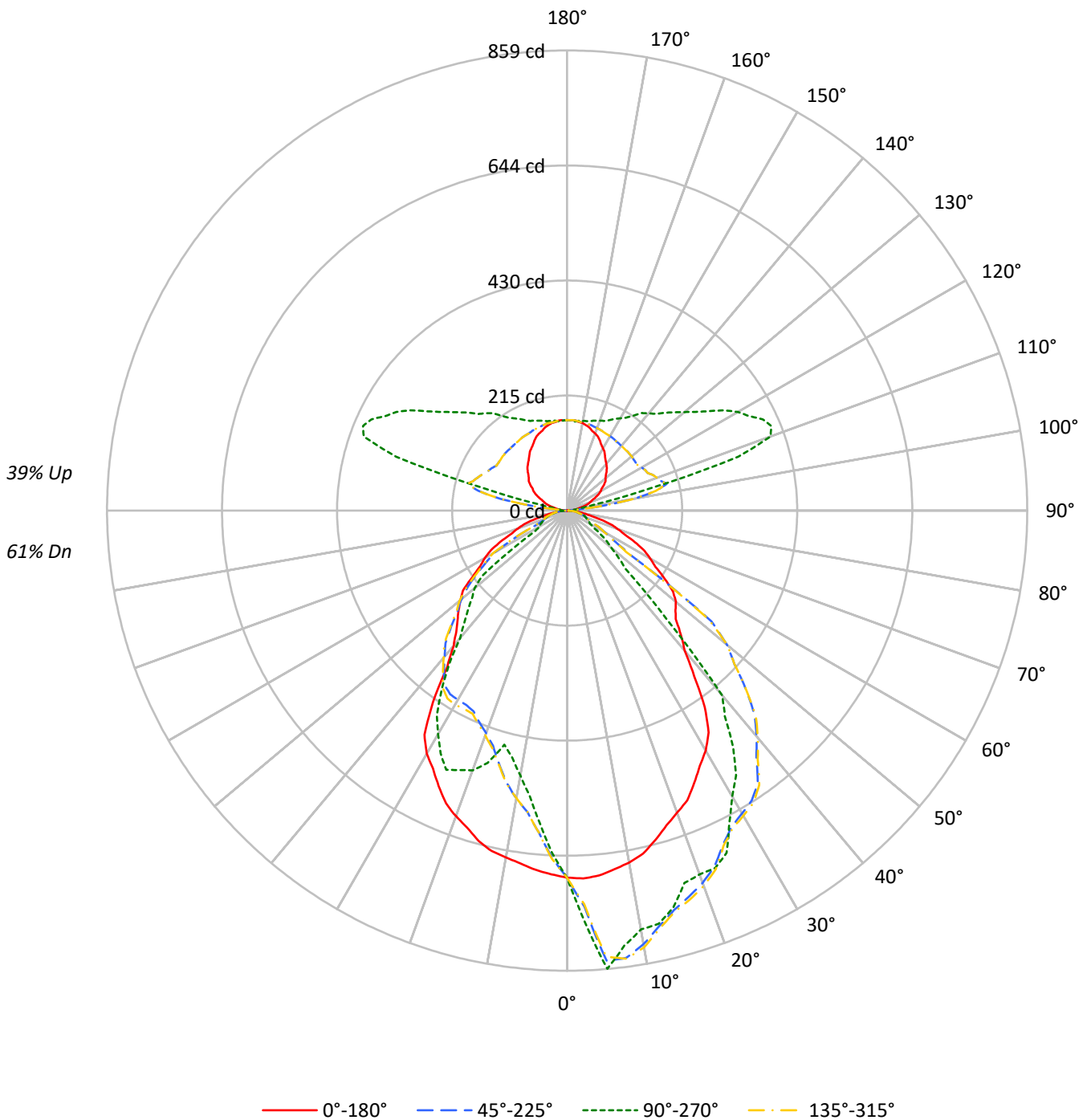
Lumens per Lamp: N/A
Luminaire Lumens: 2321.3 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.7
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										
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	50	30	10	0														
RCR																																						
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	66	66	66	61														
1	101	97	94	90	95	91	88	85	80	78	76	70	68	66	60	59	58	58	58	58	58	58	58	53														
2	93	86	80	76	87	81	76	72	71	68	64	62	60	57	54	52	50	50	50	50	50	50	50	46														
3	86	77	70	64	80	72	66	61	64	59	55	56	52	50	49	46	44	44	44	44	44	44	44	40														
4	79	68	61	55	74	65	58	53	57	52	48	51	47	43	44	41	39	39	39	39	39	39	39	36														
5	73	62	54	48	68	58	51	46	52	46	42	46	42	38	40	37	34	34	34	34	34	34	34	31														
6	67	56	48	42	63	53	46	40	47	41	37	42	37	34	37	33	31	31	31	31	31	31	31	28														
7	62	51	43	37	58	48	41	36	43	37	33	38	34	30	34	30	28	28	28	28	28	28	28	25														
8	58	46	39	33	54	44	37	32	39	34	30	35	31	27	31	28	25	25	25	25	25	25	25	23														
9	54	42	35	30	51	40	34	29	36	31	27	33	28	25	29	25	23	23	23	23	23	23	23	21														
10	51	39	32	27	48	37	31	26	34	28	24	30	26	23	27	23	21	21	21	21	21	21	21	19														

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4917	4917	4917	4917
5°	4926	6186	4850	4218
10°	4860	5785	4790	3662
15°	4728	5696	4743	3361
20°	4583	5520	4636	3939
25°	4443	5580	4493	4227
30°	4286	5106	4343	3991
35°	3926	4732	3828	3578
40°	3199	4212	3088	2912
45°	2907	1563	2936	2653
50°	2957	1190	2903	2521
55°	2790	925	2695	1509
60°	2570	710	2550	840
65°	2367	734	2319	888
70°	2106	774	2048	921
75°	1797	812	1719	948
80°	1355	835	1269	979
85°	922	749	807	922

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	2.8
10°-20°	181.1	7.8
20°-30°	270.9	11.7
30°-40°	308.1	13.3
40°-50°	263.5	11.4
50°-60°	177.7	7.7
60°-70°	91.7	4.0
70°-80°	41.4	1.8
80°-90°	12.7	0.5
90°-100°	20.8	0.9
100°-110°	148.1	6.4
110°-120°	201.1	8.7
120°-130°	163.6	7.1
130°-140°	131.6	5.7
140°-150°	103.8	4.5
150°-160°	75.9	3.3
160°-170°	47.1	2.0
170°-180°	16.1	0.7
0°-30°	518.1	22.3
0°-40°	826.2	35.6
0°-60°	1267.4	54.6
0°-90°	1413.2	60.9
90°-120°	369.9	15.9
90°-150°	769.0	33.1
90°-180°	908.0	39.1
0°-180°	2321.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	685	685	685	685	685	
5°	684	859	673	586	684	65
15°	636	767	638	452	636	179
25°	561	705	567	534	561	258
35°	448	540	437	408	448	274
45°	286	154	289	261	286	227
55°	223	74	215	121	223	199
65°	139	43	137	52	139	138
75°	65	29	62	34	65	69
85°	11	9	10	11	11	14
90°	0	3	0	3	0	1
95°	8	12	8	12	8	10
105°	33	163	33	163	33	35
115°	58	403	58	403	58	58
125°	84	323	84	323	84	75
135°	104	258	104	258	104	80
145°	123	217	123	217	123	77
155°	145	186	145	186	145	66
165°	160	173	160	173	160	45
175°	169	167	169	167	169	16
180°	169	169	169	169	169	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2
2.5°	687.4	710.8	740.4	760.6	769.4	760.6	735.3	710.7	679.6	670.3	648.4
5°	683.8	756.0	843.4	853.9	858.7	853.9	835.7	751.7	673.3	639.9	603.6
7.5°	675.4	801.8	842.4	818.8	819.0	823.3	843.7	797.8	664.5	612.0	567.5
10°	667.0	827.2	821.8	787.8	793.9	791.2	828.0	822.2	657.3	596.6	545.8
12.5°	655.9	835.1	794.4	783.3	790.0	786.2	798.5	830.8	651.1	585.6	520.7
15°	636.4	823.8	771.6	766.7	766.7	770.1	775.1	827.2	638.5	565.5	490.0
17.5°	616.3	801.1	755.7	731.5	728.9	733.4	761.4	806.9	620.5	543.3	460.3
20°	600.1	785.5	739.5	711.2	722.8	712.6	745.8	789.7	607.1	529.4	441.9
22.5°	585.6	766.1	718.9	706.8	722.2	707.1	724.6	770.3	591.5	513.8	428.0
25°	561.1	733.5	687.9	699.2	704.7	699.2	690.7	736.4	567.4	493.8	413.3
27.5°	536.7	699.2	664.8	672.4	655.7	668.6	668.6	699.3	542.5	470.4	408.9
30°	517.2	675.3	653.1	642.1	616.2	636.6	658.0	675.4	524.1	455.3	407.7
32.5°	491.5	653.5	641.4	603.2	586.6	600.5	646.8	653.0	495.7	441.6	406.6
35°	448.2	622.6	620.3	557.2	540.2	553.1	625.2	621.0	437.0	420.0	398.0
37.5°	390.0	595.2	580.0	510.7	483.6	507.3	584.6	592.2	367.6	400.2	377.8
40°	341.5	576.7	549.9	476.1	449.6	472.7	553.4	575.0	329.7	386.2	355.5
42.5°	314.2	560.2	518.2	439.6	275.0	434.0	521.6	558.2	306.3	368.3	336.0
45°	286.5	530.5	471.9	243.3	154.0	231.7	472.6	523.0	289.3	341.1	306.0
47.5°	274.3	493.8	423.5	146.6	130.1	142.3	423.1	485.8	274.5	313.7	277.4
50°	264.9	470.7	388.9	129.1	106.6	124.4	389.6	463.1	260.0	295.4	257.9
52.5°	249.2	443.1	339.3	107.0	92.1	104.4	331.1	434.4	244.9	275.5	233.4
55°	223.0	390.0	141.5	84.1	73.9	80.7	134.5	376.9	215.4	244.0	204.9
57.5°	195.3	332.0	99.3	65.5	57.3	64.8	98.6	318.7	191.7	206.7	178.7
60°	179.1	292.9	80.9	54.9	49.5	54.3	80.2	281.3	177.7	181.8	154.7
62.5°	163.0	253.3	66.9	48.3	46.7	47.7	66.8	240.6	160.5	160.7	109.0
65°	139.4	191.9	49.5	43.9	43.2	43.2	48.1	185.0	136.6	132.5	62.7
67.5°	115.4	137.8	39.7	40.4	39.7	39.7	39.0	133.9	112.6	105.7	47.4
70°	100.4	105.8	36.9	37.6	36.9	36.9	36.2	103.0	97.6	81.9	44.6
72.5°	85.9	72.2	34.2	34.3	34.2	34.2	33.5	67.8	83.1	57.6	40.7
75°	64.8	36.2	29.3	29.3	29.3	29.3	28.6	34.8	62.0	37.5	34.9
77.5°	45.0	23.9	24.3	24.1	24.1	23.6	23.6	23.7	42.4	25.9	28.2
80°	32.8	19.8	20.9	20.2	20.2	20.2	20.2	19.1	30.7	21.8	23.7
82.5°	23.3	15.8	17.0	16.3	16.3	16.3	16.3	15.6	21.2	17.8	19.2
85°	11.2	10.5	11.2	9.7	9.1	9.7	10.5	10.4	9.8	11.8	12.5
87.5°	3.3	5.2	4.9	4.0	4.0	4.0	4.3	4.6	2.8	5.7	5.4
90°	0.0	1.0	2.1	3.2	3.2	3.2	2.1	1.0	0.0	1.0	2.1
92.5°	2.6	3.6	4.7	6.6	7.4	6.6	4.7	3.6	2.6	3.6	4.7
95°	8.5	15.8	8.5	9.6	11.7	9.6	8.5	15.8	8.5	15.8	8.5
97.5°	15.1	30.3	62.5	18.4	15.9	18.4	62.5	30.3	15.1	30.3	62.5
100°	20.2	37.9	125.5	36.9	24.5	36.9	125.5	37.9	20.2	37.9	125.5
102.5°	25.3	43.8	169.7	97.4	53.4	97.4	169.7	43.8	25.3	43.8	169.7
105°	33.0	50.6	192.4	245.8	162.7	245.8	192.4	50.6	33.0	50.6	192.4
107.5°	40.6	53.9	183.7	357.8	335.1	357.8	183.7	53.9	40.6	53.9	183.7
110°	45.7	58.2	178.6	375.9	404.0	375.9	178.6	58.2	45.7	58.2	178.6



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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°	50.8	63.3	173.5	365.3	412.5	365.3	173.5	63.3	50.8	63.3	173.5
115°	58.5	70.9	165.9	344.7	402.9	344.7	165.9	70.9	58.5	70.9	165.9
117.5°	66.3	78.6	163.9	322.4	382.3	322.4	163.9	78.6	66.3	78.6	163.9
120°	72.3	83.7	160.5	305.5	367.9	305.5	160.5	83.7	72.3	83.7	160.5
122.5°	76.5	88.8	156.3	290.9	348.3	290.9	156.3	88.8	76.5	88.8	156.3
125°	84.0	95.4	156.3	273.3	323.2	273.3	156.3	95.4	84.0	95.4	156.3
127.5°	90.2	101.8	156.5	252.9	302.2	252.9	156.5	101.8	90.2	101.8	156.5
130°	93.6	106.0	157.4	239.2	286.0	239.2	157.4	106.0	93.6	106.0	157.4
132.5°	97.8	110.3	157.4	233.1	271.5	233.1	157.4	110.3	97.8	110.3	157.4
135°	104.2	115.6	157.4	225.1	258.4	225.1	157.4	115.6	104.2	115.6	157.4
137.5°	109.5	121.8	157.4	216.3	244.7	216.3	157.4	121.8	109.5	121.8	157.4
140°	113.8	125.2	157.4	211.1	237.1	211.1	157.4	125.2	113.8	125.2	157.4
142.5°	118.0	128.6	158.2	205.1	229.4	205.1	158.2	128.6	118.0	128.6	158.2
145°	123.3	133.7	158.4	196.1	216.9	196.1	158.4	133.7	123.3	133.7	158.4
147.5°	129.7	138.9	159.7	189.6	205.6	189.6	159.7	138.9	129.7	138.9	159.7
150°	134.0	142.3	160.5	185.3	198.8	185.3	160.5	142.3	134.0	142.3	160.5
152.5°	138.2	145.7	160.5	181.8	192.9	181.8	160.5	145.7	138.2	145.7	160.5
155°	144.6	149.8	161.6	177.7	186.1	177.7	161.6	149.8	144.6	149.8	161.6
157.5°	149.7	154.7	162.9	175.1	181.2	175.1	162.9	154.7	149.7	154.7	162.9
160°	153.1	157.3	163.7	173.4	178.6	173.4	163.7	157.3	153.1	157.3	163.7
162.5°	155.7	159.8	164.6	172.5	176.1	172.5	164.6	159.8	155.7	159.8	164.6
165°	160.5	162.6	165.9	170.2	173.3	170.2	165.9	162.6	160.5	162.6	165.9
167.5°	163.3	165.2	166.9	169.1	171.0	169.1	166.9	165.2	163.3	165.2	166.9
170°	165.9	166.9	166.9	169.1	170.1	169.1	166.9	166.9	165.9	166.9	166.9
172.5°	166.7	168.6	167.8	168.2	169.3	168.2	167.8	168.6	166.7	168.6	167.8
175°	169.0	170.1	169.0	168.0	166.9	168.0	169.0	170.1	169.0	170.1	169.0
177.5°	169.0	169.9	169.0	169.0	168.2	169.0	169.0	169.9	169.0	169.9	169.0
180°	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	685.2	685.2	685.2	685.2	685.2	685.2
2.5°	640.5	640.0	641.1	650.6	669.9	687.4
5°	583.4	585.5	587.5	603.6	637.4	683.8
7.5°	539.6	536.6	541.2	567.4	608.9	675.4
10°	509.4	502.5	509.4	545.1	593.4	667.0
12.5°	480.9	472.4	483.1	522.2	580.6	655.9
15°	444.2	452.4	447.6	491.4	561.4	636.4
17.5°	452.9	494.0	461.6	464.6	542.3	616.3
20°	473.5	515.8	487.2	446.8	529.9	600.1
22.5°	492.3	524.1	498.3	431.7	517.6	585.6
25°	506.6	533.9	505.3	418.2	499.8	561.1
27.5°	507.4	511.2	507.6	417.1	477.7	536.7
30°	498.0	481.6	496.6	418.2	462.0	517.2
32.5°	471.2	452.6	465.4	416.0	446.1	491.5
35°	433.0	408.4	426.2	404.3	421.6	448.2
37.5°	392.7	361.6	386.1	381.1	400.7	390.0
40°	365.4	310.9	359.9	358.3	389.2	341.5
42.5°	330.4	284.1	325.5	339.9	376.6	314.2
45°	266.8	261.4	264.1	308.8	349.9	286.5
47.5°	244.0	240.3	242.6	280.5	319.6	274.3
50°	230.6	225.8	229.2	262.1	300.3	264.9
52.5°	212.0	199.1	210.7	237.0	280.3	249.2
55°	159.4	120.6	158.7	208.4	250.3	223.0
57.5°	93.6	69.7	91.5	181.4	212.1	195.3
60°	63.3	58.5	64.0	159.6	186.6	179.1
62.5°	57.8	56.3	58.0	111.1	163.9	163.0
65°	53.0	52.3	53.0	64.1	135.3	139.4
67.5°	47.9	47.3	48.5	49.2	106.8	115.4
70°	44.6	43.9	44.6	45.3	82.0	100.4
72.5°	40.7	40.0	40.7	41.4	57.7	85.9
75°	34.8	34.2	34.8	35.5	38.2	64.8
77.5°	28.2	28.2	28.8	28.9	26.8	45.0
80°	23.7	23.7	24.4	24.4	23.2	32.8
82.5°	19.2	18.7	19.9	20.5	19.2	23.3
85°	11.8	11.2	12.5	13.2	12.5	11.2
87.5°	5.1	4.5	5.6	6.6	6.3	3.3
90°	3.2	3.2	3.2	2.1	1.0	0.0
92.5°	6.6	7.4	6.6	4.7	3.6	2.6
95°	9.6	11.7	9.6	8.5	15.8	8.5
97.5°	18.4	15.9	18.4	62.5	30.3	15.1
100°	36.9	24.5	36.9	125.5	37.9	20.2
102.5°	97.4	53.4	97.4	169.7	43.8	25.3
105°	245.8	162.7	245.8	192.4	50.6	33.0
107.5°	357.8	335.1	357.8	183.7	53.9	40.6
110°	375.9	404.0	375.9	178.6	58.2	45.7



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	365.3	412.5	365.3	173.5	63.3	50.8
115°	344.7	402.9	344.7	165.9	70.9	58.5
117.5°	322.4	382.3	322.4	163.9	78.6	66.3
120°	305.5	367.9	305.5	160.5	83.7	72.3
122.5°	290.9	348.3	290.9	156.3	88.8	76.5
125°	273.3	323.2	273.3	156.3	95.4	84.0
127.5°	252.9	302.2	252.9	156.5	101.8	90.2
130°	239.2	286.0	239.2	157.4	106.0	93.6
132.5°	233.1	271.5	233.1	157.4	110.3	97.8
135°	225.1	258.4	225.1	157.4	115.6	104.2
137.5°	216.3	244.7	216.3	157.4	121.8	109.5
140°	211.1	237.1	211.1	157.4	125.2	113.8
142.5°	205.1	229.4	205.1	158.2	128.6	118.0
145°	196.1	216.9	196.1	158.4	133.7	123.3
147.5°	189.6	205.6	189.6	159.7	138.9	129.7
150°	185.3	198.8	185.3	160.5	142.3	134.0
152.5°	181.8	192.9	181.8	160.5	145.7	138.2
155°	177.7	186.1	177.7	161.6	149.8	144.6
157.5°	175.1	181.2	175.1	162.9	154.7	149.7
160°	173.4	178.6	173.4	163.7	157.3	153.1
162.5°	172.5	176.1	172.5	164.6	159.8	155.7
165°	170.2	173.3	170.2	165.9	162.6	160.5
167.5°	169.1	171.0	169.1	166.9	165.2	163.3
170°	169.1	170.1	169.1	166.9	166.9	165.9
172.5°	168.2	169.3	168.2	167.8	168.6	166.7
175°	168.0	166.9	168.0	169.0	170.1	169.0
177.5°	169.0	168.2	169.0	169.0	169.9	169.0
180°	169.0	169.0	169.0	169.0	169.0	169.0

(END OF REPORT)