

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: P621700

Luminaire Tested: VLT-FA-125U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621700  
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-050D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - ASYMMETRIC  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

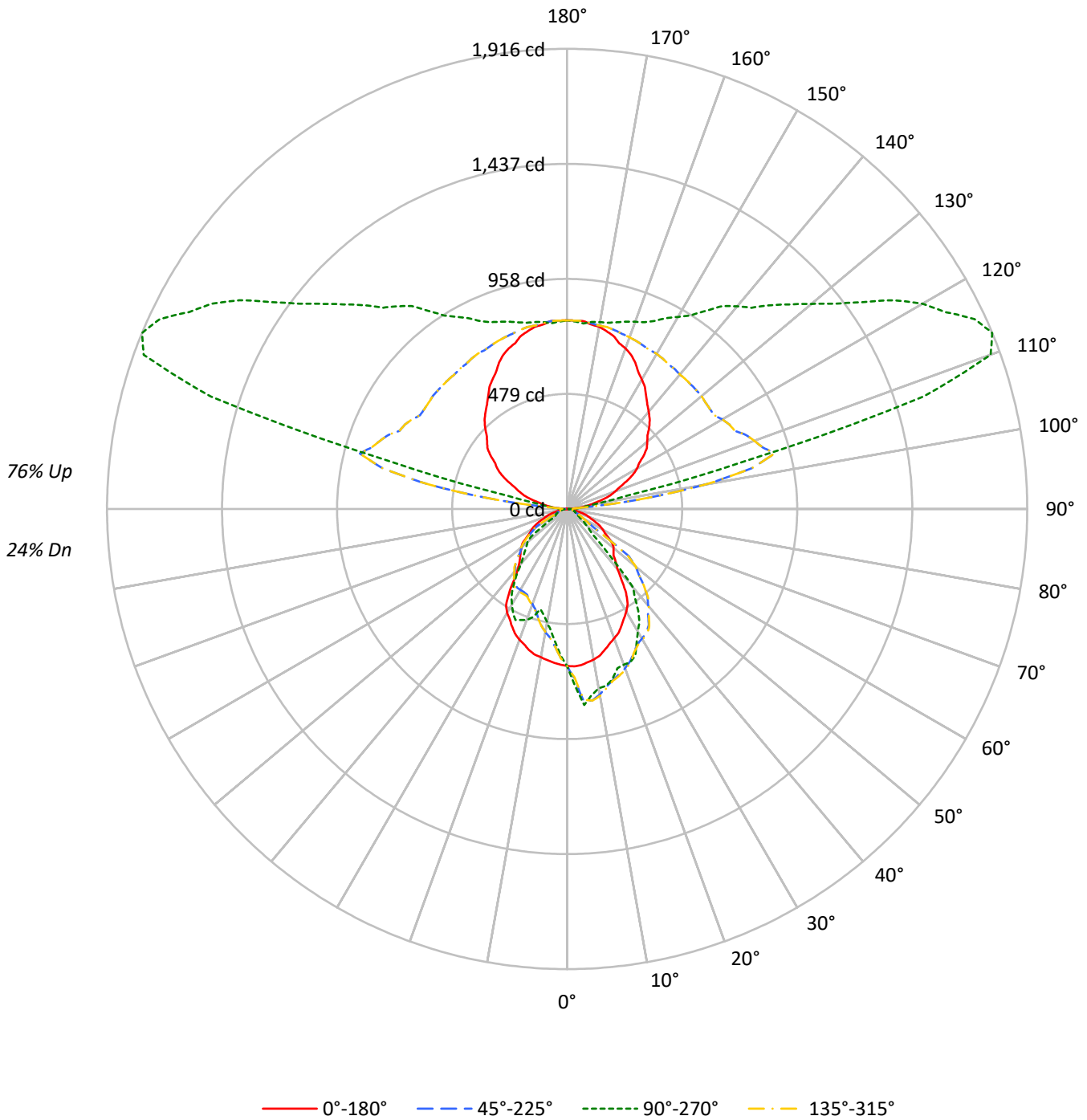
Lumens per Lamp: N/A  
Luminaire Lumens: 5567.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 52.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24				
1	92	88	85	82	82	79	76	73	61	59	57	44	43	42	29	29	28	21				
2	84	78	72	67	75	69	65	61	54	51	48	39	38	36	26	25	24	18				
3	77	68	62	56	69	61	56	51	48	44	41	35	33	31	24	22	21	16				
4	71	61	53	48	63	54	48	43	43	38	35	32	29	27	21	20	18	14				
5	65	54	47	41	58	49	42	37	38	34	30	28	25	23	19	18	16	12				
6	60	48	41	36	53	44	37	32	34	30	26	26	23	20	18	16	14	11				
7	55	44	36	31	49	39	33	28	31	27	23	23	20	18	16	14	13	10				
8	51	40	32	27	46	36	29	25	28	24	21	21	18	16	15	13	12	9				
9	48	36	29	24	42	33	26	22	26	21	18	20	17	14	14	12	11	8				
10	44	33	26	22	40	30	24	20	24	19	16	18	15	13	13	11	10	8				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4692	4692	4692	4692
5°	4700	5902	4628	4025
10°	4638	5520	4570	3494
15°	4511	5435	4526	3206
20°	4373	5267	4424	3759
25°	4239	5324	4287	4034
30°	4089	4871	4144	3808
35°	3747	4515	3653	3414
40°	3053	4019	2947	2778
45°	2775	1492	2801	2531
50°	2821	1136	2770	2406
55°	2662	882	2571	1440
60°	2453	677	2434	802
65°	2258	700	2214	847
70°	2010	739	1953	879
75°	1716	774	1641	904
80°	1293	798	1211	934
85°	873	708	766	873

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 5137 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.1	1.1
10°-20°	172.8	3.1
20°-30°	258.5	4.6
30°-40°	294.0	5.3
40°-50°	251.4	4.5
50°-60°	169.6	3.0
60°-70°	87.5	1.6
70°-80°	39.5	0.7
80°-90°	13.5	0.2
90°-100°	96.5	1.7
100°-110°	687.8	12.4
110°-120°	933.8	16.8
120°-130°	760.0	13.7
130°-140°	611.2	11.0
140°-150°	481.9	8.7
150°-160°	352.4	6.3
160°-170°	218.9	3.9
170°-180°	74.6	1.3
0°-30°	494.3	8.9
0°-40°	788.3	14.2
0°-60°	1209.3	21.7
0°-90°	1349.9	24.2
90°-120°	1718.1	30.9
90°-150°	3571.3	64.2
90°-180°	4217.0	75.7
0°-180°	5567.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	654	654	654	654	654	
5°	652	819	642	559	652	62
15°	607	732	609	432	607	171
25°	535	672	541	510	535	246
35°	428	515	417	390	428	261
45°	273	147	276	249	273	217
55°	213	70	206	115	213	190
65°	133	41	130	50	133	131
75°	62	28	59	33	62	66
85°	11	9	9	11	11	14
90°	0	15	0	15	0	2
95°	40	54	40	54	40	44
105°	153	755	153	755	153	161
115°	272	1871	272	1871	272	270
125°	390	1501	390	1501	390	347
135°	484	1200	484	1200	484	372
145°	573	1007	573	1007	573	360
155°	672	864	672	864	672	308
165°	746	805	746	805	746	209
175°	785	775	785	775	785	74
180°	785	785	785	785	785	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8
2.5°	655.9	678.3	706.5	725.8	734.1	725.8	701.7	678.1	648.5	639.6	618.7
5°	652.5	721.4	804.8	814.8	819.4	814.8	797.4	717.3	642.5	610.6	576.0
7.5°	644.5	765.0	803.8	781.3	781.5	785.6	805.0	761.3	634.1	584.0	541.5
10°	636.5	789.3	784.1	751.7	757.5	754.9	790.1	784.6	627.2	569.3	520.8
12.5°	625.8	796.9	758.1	747.4	753.8	750.2	761.9	792.7	621.3	558.8	496.8
15°	607.2	786.1	736.3	731.6	731.6	734.8	739.6	789.4	609.2	539.6	467.6
17.5°	588.1	764.4	721.1	698.0	695.5	699.8	726.5	770.0	592.1	518.4	439.2
20°	572.6	749.5	705.7	678.6	689.7	679.9	711.6	753.6	579.3	505.2	421.7
22.5°	558.8	731.0	686.0	674.5	689.2	674.7	691.4	735.0	564.4	490.3	408.4
25°	535.4	699.9	656.4	667.2	672.4	667.2	659.1	702.7	541.4	471.1	394.4
27.5°	512.1	667.2	634.4	641.6	625.7	637.9	638.0	667.3	517.7	448.9	390.1
30°	493.5	644.4	623.2	612.6	587.9	607.4	627.8	644.5	500.1	434.5	389.1
32.5°	469.0	623.5	612.0	575.6	559.7	573.0	617.2	623.1	473.0	421.4	388.0
35°	427.7	594.1	591.9	531.7	515.4	527.8	596.6	592.6	417.0	400.8	379.8
37.5°	372.2	567.9	553.5	487.3	461.4	484.1	557.9	565.1	350.8	381.9	360.5
40°	325.9	550.2	524.8	454.3	429.0	451.1	528.1	548.7	314.6	368.6	339.2
42.5°	299.8	534.6	494.4	419.4	262.4	414.1	497.8	532.6	292.2	351.4	320.6
45°	273.4	506.2	450.3	232.2	147.0	221.1	450.9	499.1	276.0	325.4	292.0
47.5°	261.8	471.2	404.1	139.8	124.1	135.8	403.7	463.5	261.9	299.4	264.7
50°	252.7	449.1	371.1	123.2	101.8	118.7	371.8	441.9	248.1	281.9	246.1
52.5°	237.8	422.8	323.8	102.1	87.9	99.6	315.9	414.5	233.7	262.8	222.7
55°	212.8	372.2	135.0	80.3	70.5	77.0	128.4	359.6	205.5	232.8	195.5
57.5°	186.4	316.8	94.7	62.5	54.7	61.8	94.0	304.1	182.9	197.2	170.5
60°	170.9	279.5	77.2	52.4	47.2	51.8	76.5	268.4	169.6	173.5	147.6
62.5°	155.5	241.7	63.8	46.1	44.6	45.5	63.7	229.6	153.1	153.4	104.0
65°	133.0	183.1	47.2	41.9	41.2	41.2	45.9	176.5	130.4	126.5	59.9
67.5°	110.1	131.5	37.9	38.6	37.9	37.9	37.2	127.8	107.5	100.8	45.2
70°	95.8	101.0	35.2	35.9	35.2	35.2	34.6	98.3	93.1	78.2	42.6
72.5°	81.9	68.9	32.6	32.7	32.6	32.6	31.9	64.7	79.3	55.0	38.8
75°	61.9	34.5	27.9	27.9	27.9	27.9	27.3	33.2	59.2	35.8	33.3
77.5°	43.0	22.8	23.1	23.0	23.0	22.5	22.5	22.6	40.4	24.7	26.9
80°	31.3	18.9	20.0	19.3	19.3	19.3	19.3	18.2	29.3	20.8	22.6
82.5°	22.2	15.1	16.2	15.6	15.6	15.6	15.6	14.9	20.2	17.0	18.4
85°	10.6	10.0	10.6	9.3	8.6	9.3	10.0	10.0	9.3	11.3	12.0
87.5°	3.2	5.7	6.2	6.2	6.2	6.2	5.7	5.2	2.7	6.2	6.8
90°	0.0	4.8	9.9	14.8	14.8	14.8	9.9	4.8	0.0	4.8	9.9
92.5°	11.8	16.7	21.7	30.7	34.6	30.7	21.7	16.7	11.8	16.7	21.7
95°	39.5	73.3	39.5	44.7	54.3	44.7	39.5	73.3	39.5	73.3	39.5
97.5°	70.1	140.6	290.3	85.6	74.1	85.6	290.3	140.6	70.1	140.6	290.3
100°	93.8	175.9	582.6	171.5	113.6	171.5	582.6	175.9	93.8	175.9	582.6
102.5°	117.5	203.4	788.0	452.6	247.9	452.6	788.0	203.4	117.5	203.4	788.0
105°	153.1	235.1	893.7	1141.7	755.4	1141.7	893.7	235.1	153.1	235.1	893.7
107.5°	188.6	250.4	853.2	1661.5	1556.3	1661.5	853.2	250.4	188.6	250.4	853.2
110°	212.3	270.2	829.5	1745.9	1876.2	1745.9	829.5	270.2	212.3	270.2	829.5



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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°	236.0	293.9	805.8	1696.6	1915.7	1696.6	805.8	293.9	236.0	293.9	805.8
115°	271.6	329.5	770.2	1600.9	1871.3	1600.9	770.2	329.5	271.6	329.5	770.2
117.5°	308.1	365.1	761.4	1497.4	1775.5	1497.4	761.4	365.1	308.1	365.1	761.4
120°	335.7	388.9	745.6	1418.7	1708.4	1418.7	745.6	388.9	335.7	388.9	745.6
122.5°	355.5	412.5	725.8	1351.0	1617.5	1351.0	725.8	412.5	355.5	412.5	725.8
125°	390.1	443.2	725.8	1269.3	1501.0	1269.3	725.8	443.2	390.1	443.2	725.8
127.5°	418.7	472.8	726.8	1174.4	1403.2	1174.4	726.8	472.8	418.7	472.8	726.8
130°	434.5	492.4	730.7	1110.9	1328.2	1110.9	730.7	492.4	434.5	492.4	730.7
132.5°	454.2	512.2	730.7	1082.4	1261.0	1082.4	730.7	512.2	454.2	512.2	730.7
135°	483.9	537.0	730.7	1045.3	1199.8	1045.3	730.7	537.0	483.9	537.0	730.7
137.5°	508.6	565.5	730.7	1004.3	1136.6	1004.3	730.7	565.5	508.6	565.5	730.7
140°	528.3	581.4	730.7	980.4	1101.1	980.4	730.7	581.4	528.3	581.4	730.7
142.5°	548.1	597.3	734.7	952.5	1065.5	952.5	734.7	597.3	548.1	597.3	734.7
145°	572.7	621.0	735.7	910.7	1007.2	910.7	735.7	621.0	572.7	621.0	735.7
147.5°	602.4	644.9	741.6	880.6	954.9	880.6	741.6	644.9	602.4	644.9	741.6
150°	622.1	660.7	745.6	860.5	923.3	860.5	745.6	660.7	622.1	660.7	745.6
152.5°	641.9	676.6	745.6	844.5	895.7	844.5	745.6	676.6	641.9	676.6	745.6
155°	671.5	695.6	750.5	825.4	864.1	825.4	750.5	695.6	671.5	695.6	750.5
157.5°	695.2	718.4	756.4	813.3	841.3	813.3	756.4	718.4	695.2	718.4	756.4
160°	711.0	730.3	760.4	805.4	829.5	805.4	760.4	730.3	711.0	730.3	760.4
162.5°	722.8	742.2	764.3	801.2	817.6	801.2	764.3	742.2	722.8	742.2	764.3
165°	745.6	755.2	770.2	790.3	804.8	790.3	770.2	755.2	745.6	755.2	770.2
167.5°	758.4	767.1	775.2	785.3	793.9	785.3	775.2	767.1	758.4	767.1	775.2
170°	770.2	775.1	775.2	785.2	790.0	785.2	775.2	775.1	770.2	775.1	775.2
172.5°	774.2	782.9	779.1	781.2	786.0	781.2	779.1	782.9	774.2	782.9	779.1
175°	785.1	789.9	785.1	780.0	775.2	780.0	785.1	789.9	785.1	789.9	785.1
177.5°	785.1	788.9	785.1	785.0	781.1	785.0	785.1	788.9	785.1	788.9	785.1
180°	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	653.8	653.8	653.8	653.8	653.8	653.8
2.5°	611.2	610.7	611.7	620.8	639.3	655.9
5°	556.7	558.7	560.6	576.0	608.2	652.5
7.5°	514.8	512.0	516.4	541.4	581.0	644.5
10°	486.0	479.5	486.0	520.1	566.3	636.5
12.5°	458.9	450.8	460.9	498.3	554.1	625.8
15°	423.8	431.6	427.1	468.9	535.7	607.2
17.5°	432.1	471.4	440.5	443.3	517.4	588.1
20°	451.8	492.2	464.9	426.3	505.7	572.6
22.5°	469.7	500.1	475.4	412.0	493.9	558.8
25°	483.4	509.5	482.1	399.1	476.9	535.4
27.5°	484.1	487.8	484.4	398.0	455.8	512.1
30°	475.2	459.6	473.9	399.1	440.8	493.5
32.5°	449.6	431.9	444.1	396.9	425.7	469.0
35°	413.2	389.7	406.6	385.8	402.3	427.7
37.5°	374.7	345.0	368.5	363.7	382.3	372.2
40°	348.7	296.6	343.5	341.9	371.4	325.9
42.5°	315.3	271.1	310.6	324.3	359.4	299.8
45°	254.6	249.4	252.0	294.6	333.8	273.4
47.5°	232.8	229.3	231.5	267.6	305.0	261.8
50°	220.0	215.5	218.7	250.1	286.5	252.7
52.5°	202.3	189.9	201.0	226.1	267.5	237.8
55°	152.1	115.1	151.5	198.9	238.8	212.8
57.5°	89.3	66.5	87.3	173.1	202.4	186.4
60°	60.4	55.9	61.1	152.3	178.1	170.9
62.5°	55.2	53.7	55.3	106.0	156.4	155.5
65°	50.5	49.9	50.5	61.2	129.1	133.0
67.5°	45.7	45.1	46.3	47.0	101.9	110.1
70°	42.6	41.9	42.6	43.2	78.2	95.8
72.5°	38.8	38.2	38.8	39.5	55.0	81.9
75°	33.2	32.6	33.2	33.9	36.5	61.9
77.5°	26.9	26.9	27.5	27.5	25.5	43.0
80°	22.6	22.6	23.3	23.3	22.2	31.3
82.5°	18.3	17.8	19.0	19.6	18.3	22.2
85°	11.3	10.6	11.9	12.6	11.9	10.6
87.5°	7.2	6.7	7.7	7.8	6.8	3.2
90°	14.8	14.8	14.8	9.9	4.8	0.0
92.5°	30.7	34.6	30.7	21.7	16.7	11.8
95°	44.7	54.3	44.7	39.5	73.3	39.5
97.5°	85.6	74.1	85.6	290.3	140.6	70.1
100°	171.5	113.6	171.5	582.6	175.9	93.8
102.5°	452.6	247.9	452.6	788.0	203.4	117.5
105°	1141.7	755.4	1141.7	893.7	235.1	153.1
107.5°	1661.5	1556.3	1661.5	853.2	250.4	188.6
110°	1745.9	1876.2	1745.9	829.5	270.2	212.3





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1696.6	1915.7	1696.6	805.8	293.9	236.0
115°	1600.9	1871.3	1600.9	770.2	329.5	271.6
117.5°	1497.4	1775.5	1497.4	761.4	365.1	308.1
120°	1418.7	1708.4	1418.7	745.6	388.9	335.7
122.5°	1351.0	1617.5	1351.0	725.8	412.5	355.5
125°	1269.3	1501.0	1269.3	725.8	443.2	390.1
127.5°	1174.4	1403.2	1174.4	726.8	472.8	418.7
130°	1110.9	1328.2	1110.9	730.7	492.4	434.5
132.5°	1082.4	1261.0	1082.4	730.7	512.2	454.2
135°	1045.3	1199.8	1045.3	730.7	537.0	483.9
137.5°	1004.3	1136.6	1004.3	730.7	565.5	508.6
140°	980.4	1101.1	980.4	730.7	581.4	528.3
142.5°	952.5	1065.5	952.5	734.7	597.3	548.1
145°	910.7	1007.2	910.7	735.7	621.0	572.7
147.5°	880.6	954.9	880.6	741.6	644.9	602.4
150°	860.5	923.3	860.5	745.6	660.7	622.1
152.5°	844.5	895.7	844.5	745.6	676.6	641.9
155°	825.4	864.1	825.4	750.5	695.6	671.5
157.5°	813.3	841.3	813.3	756.4	718.4	695.2
160°	805.4	829.5	805.4	760.4	730.3	711.0
162.5°	801.2	817.6	801.2	764.3	742.2	722.8
165°	790.3	804.8	790.3	770.2	755.2	745.6
167.5°	785.3	793.9	785.3	775.2	767.1	758.4
170°	785.2	790.0	785.2	775.2	775.1	770.2
172.5°	781.2	786.0	781.2	779.1	782.9	774.2
175°	780.0	775.2	780.0	785.1	789.9	785.1
177.5°	785.0	781.1	785.0	785.1	788.9	785.1
180°	785.1	785.1	785.1	785.1	785.1	785.1

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