

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: P621634

Luminaire Tested: VLT-FA-075U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621634  
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-930-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, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

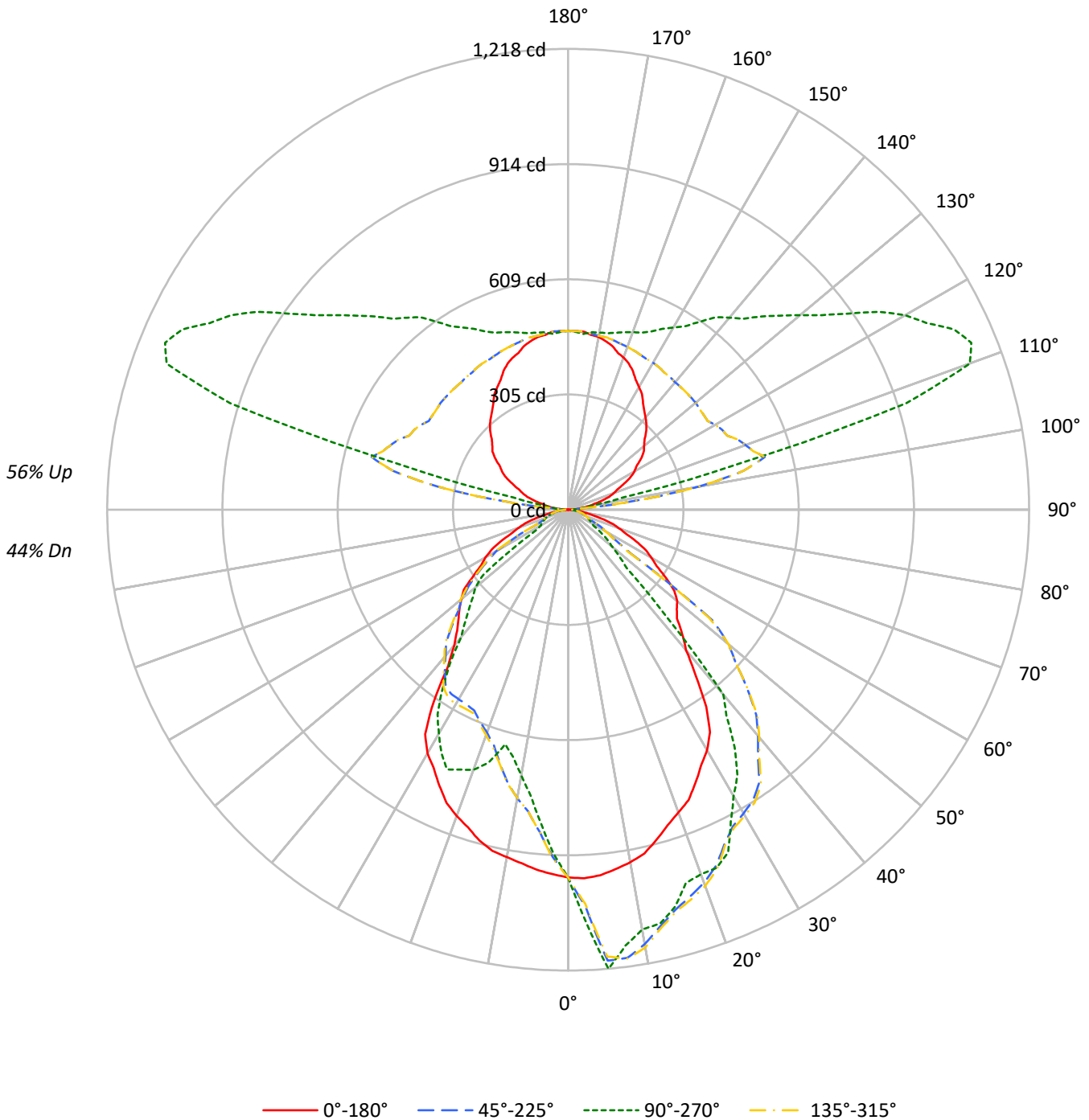
Lumens per Lamp: N/A  
Luminaire Lumens: 4542.9 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 42.4  
Input Voltage (V): 120  
Input Current (A<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	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°	6974	6974	6974	6974
5°	6987	8774	6880	5982
10°	6895	8206	6794	5195
15°	6706	8080	6729	4767
20°	6501	7830	6577	5588
25°	6302	7915	6372	5997
30°	6079	7242	6161	5661
35°	5570	6713	5430	5076
40°	4539	5974	4381	4131
45°	4124	2217	4164	3763
50°	4194	1689	4117	3576
55°	3958	1311	3822	2139
60°	3647	1008	3618	1193
65°	3357	1041	3291	1260
70°	2988	1099	2904	1307
75°	2551	1151	2440	1342
80°	1922	1186	1798	1389
85°	1301	1062	1136	1301

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7637 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.8	2.1
10°-20°	256.8	5.7
20°-30°	384.3	8.5
30°-40°	437.1	9.6
40°-50°	373.8	8.2
50°-60°	252.1	5.5
60°-70°	130.1	2.9
70°-80°	58.7	1.3
80°-90°	18.5	0.4
90°-100°	58.1	1.3
100°-110°	413.9	9.1
110°-120°	561.9	12.4
120°-130°	457.3	10.1
130°-140°	367.8	8.1
140°-150°	290.0	6.4
150°-160°	212.0	4.7
160°-170°	131.7	2.9
170°-180°	44.9	1.0
0°-30°	734.9	16.2
0°-40°	1172.0	25.8
0°-60°	1797.8	39.6
0°-90°	2005.2	44.1
90°-120°	1033.9	22.8
90°-150°	2149.1	47.3
90°-180°	2538.0	55.9
0°-180°	4542.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	970	1218	955	830	970	92
15°	903	1088	906	642	903	254
25°	796	1000	805	757	796	366
35°	636	766	620	579	636	389
45°	406	218	410	371	406	322
55°	316	105	306	171	316	282
65°	198	61	194	74	198	195
75°	92	42	88	48	92	98
85°	16	13	14	16	16	20
90°	0	9	0	9	0	2
95°	24	33	24	33	24	27
105°	92	455	92	455	92	97
115°	163	1126	163	1126	163	162
125°	235	903	235	903	235	209
135°	291	722	291	722	291	224
145°	345	606	345	606	345	216
155°	404	520	404	520	404	186
165°	449	484	449	484	449	126
175°	472	466	472	466	472	45
180°	472	472	472	472	472	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	975.1	1008.3	1050.2	1079.0	1091.4	1079.0	1043.1	1008.1	964.0	950.9	919.7
5°	969.9	1072.4	1196.4	1211.3	1218.1	1211.3	1185.5	1066.3	955.1	907.7	856.2
7.5°	958.1	1137.3	1195.0	1161.6	1161.8	1167.9	1196.8	1131.7	942.7	868.2	805.0
10°	946.2	1173.4	1165.7	1117.5	1126.2	1122.3	1174.6	1166.3	932.4	846.3	774.2
12.5°	930.4	1184.6	1127.0	1111.1	1120.6	1115.2	1132.7	1178.5	923.7	830.7	738.6
15°	902.7	1168.6	1094.5	1087.6	1087.6	1092.4	1099.5	1173.5	905.7	802.2	695.1
17.5°	874.2	1136.4	1072.0	1037.7	1034.0	1040.4	1080.1	1144.7	880.2	770.7	653.0
20°	851.3	1114.3	1049.0	1008.9	1025.3	1010.8	1057.9	1120.3	861.2	751.0	626.9
22.5°	830.7	1086.7	1019.8	1002.7	1024.5	1003.1	1027.9	1092.7	839.0	728.8	607.1
25°	795.9	1040.5	975.9	991.9	999.6	991.9	979.8	1044.6	804.8	700.4	586.3
27.5°	761.3	991.8	943.0	953.8	930.2	948.4	948.4	992.0	769.6	667.3	580.0
30°	733.6	957.9	926.4	910.8	874.0	903.0	933.4	958.1	743.5	645.9	578.4
32.5°	697.3	927.0	909.8	855.7	832.1	851.8	917.5	926.3	703.2	626.4	576.8
35°	635.8	883.2	880.0	790.4	766.3	784.6	886.9	881.0	619.9	595.8	564.6
37.5°	553.3	844.3	822.8	724.5	686.0	719.6	829.3	840.1	521.5	567.7	535.9
40°	484.5	818.0	780.1	675.4	637.7	670.6	785.0	815.7	467.7	547.9	504.3
42.5°	445.7	794.7	735.0	623.5	390.2	615.6	740.0	791.8	434.4	522.4	476.6
45°	406.4	752.5	669.4	345.2	218.5	328.7	670.4	741.9	410.3	483.8	434.1
47.5°	389.2	700.5	600.8	207.9	184.5	201.9	600.2	689.1	389.4	445.0	393.5
50°	375.7	667.7	551.7	183.2	151.3	176.4	552.7	656.9	368.8	419.1	365.8
52.5°	353.6	628.5	481.3	151.8	130.7	148.1	469.6	616.2	347.4	390.7	331.0
55°	316.4	553.2	200.7	119.3	104.8	114.5	190.8	534.6	305.5	346.1	290.7
57.5°	277.0	471.0	140.8	92.9	81.3	91.9	139.8	452.1	271.9	293.2	253.5
60°	254.1	415.6	114.7	77.9	70.2	77.0	113.7	399.1	252.1	257.9	219.5
62.5°	231.2	359.4	94.9	68.6	66.2	67.6	94.7	341.3	227.6	228.0	154.6
65°	197.7	272.2	70.2	62.3	61.3	61.3	68.2	262.4	193.8	188.0	89.0
67.5°	163.7	195.4	56.4	57.3	56.4	56.4	55.4	189.9	159.8	149.9	67.2
70°	142.4	150.1	52.4	53.4	52.4	52.4	51.4	146.2	138.4	116.2	63.3
72.5°	121.8	102.5	48.4	48.6	48.4	48.4	47.5	96.2	117.9	81.7	57.7
75°	92.0	51.3	41.5	41.5	41.5	41.5	40.5	49.3	88.0	53.2	49.4
77.5°	63.9	33.9	34.4	34.2	34.2	33.4	33.4	33.6	60.1	36.7	39.9
80°	46.5	28.1	29.7	28.7	28.7	28.7	28.7	27.1	43.5	30.9	33.6
82.5°	33.0	22.4	24.1	23.1	23.1	23.1	23.1	22.1	30.1	25.2	27.3
85°	15.8	14.9	15.8	13.8	12.9	13.8	14.8	14.8	13.8	16.7	17.8
87.5°	4.7	7.6	7.5	6.5	6.5	6.5	6.7	6.9	4.0	8.4	8.3
90°	0.0	2.9	5.9	8.9	8.9	8.9	5.9	2.9	0.0	2.9	5.9
92.5°	7.1	10.0	13.1	18.5	20.8	18.5	13.1	10.0	7.1	10.0	13.1
95°	23.8	44.1	23.8	26.9	32.7	26.9	23.8	44.1	23.8	44.1	23.8
97.5°	42.2	84.6	174.7	51.5	44.6	51.5	174.7	84.6	42.2	84.6	174.7
100°	56.5	105.8	350.6	103.2	68.3	103.2	350.6	105.8	56.5	105.8	350.6
102.5°	70.7	122.4	474.2	272.3	149.2	272.3	474.2	122.4	70.7	122.4	474.2
105°	92.1	141.5	537.8	687.0	454.6	687.0	537.8	141.5	92.1	141.5	537.8
107.5°	113.5	150.7	513.4	999.9	936.5	999.9	513.4	150.7	113.5	150.7	513.4
110°	127.8	162.6	499.2	1050.6	1129.1	1050.6	499.2	162.6	127.8	162.6	499.2



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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°	142.0	176.9	484.9	1020.9	1152.8	1020.9	484.9	176.9	142.0	176.9	484.9
115°	163.4	198.3	463.5	963.4	1126.1	963.4	463.5	198.3	163.4	198.3	463.5
117.5°	185.4	219.7	458.2	901.1	1068.4	901.1	458.2	219.7	185.4	219.7	458.2
120°	202.0	234.0	448.7	853.7	1028.0	853.7	448.7	234.0	202.0	234.0	448.7
122.5°	213.9	248.2	436.8	813.0	973.4	813.0	436.8	248.2	213.9	248.2	436.8
125°	234.7	266.7	436.8	763.8	903.2	763.8	436.8	266.7	234.7	266.7	436.8
127.5°	252.0	284.5	437.4	706.7	844.4	706.7	437.4	284.5	252.0	284.5	437.4
130°	261.5	296.3	439.7	668.5	799.3	668.5	439.7	296.3	261.5	296.3	439.7
132.5°	273.4	308.2	439.7	651.4	758.8	651.4	439.7	308.2	273.4	308.2	439.7
135°	291.2	323.1	439.7	629.0	722.0	629.0	439.7	323.1	291.2	323.1	439.7
137.5°	306.0	340.3	439.7	604.4	684.0	604.4	439.7	340.3	306.0	340.3	439.7
140°	317.9	349.9	439.7	589.9	662.6	589.9	439.7	349.9	317.9	349.9	439.7
142.5°	329.8	359.4	442.1	573.2	641.2	573.2	442.1	359.4	329.8	359.4	442.1
145°	344.7	373.7	442.7	548.0	606.1	548.0	442.7	373.7	344.7	373.7	442.7
147.5°	362.5	388.1	446.3	529.9	574.6	529.9	446.3	388.1	362.5	388.1	446.3
150°	374.4	397.6	448.7	517.8	555.6	517.8	448.7	397.6	374.4	397.6	448.7
152.5°	386.3	407.2	448.7	508.2	539.0	508.2	448.7	407.2	386.3	407.2	448.7
155°	404.1	418.6	451.6	496.7	520.0	496.7	451.6	418.6	404.1	418.6	451.6
157.5°	418.3	432.3	455.2	489.4	506.3	489.4	455.2	432.3	418.3	432.3	455.2
160°	427.9	439.5	457.6	484.6	499.2	484.6	457.6	439.5	427.9	439.5	457.6
162.5°	435.0	446.6	459.9	482.2	492.0	482.2	459.9	446.6	435.0	446.6	459.9
165°	448.7	454.5	463.5	475.6	484.3	475.6	463.5	454.5	448.7	454.5	463.5
167.5°	456.4	461.6	466.5	472.5	477.8	472.5	466.5	461.6	456.4	461.6	466.5
170°	463.5	466.4	466.5	472.5	475.4	472.5	466.5	466.4	463.5	466.4	466.5
172.5°	465.9	471.1	468.9	470.1	473.0	470.1	468.9	471.1	465.9	471.1	468.9
175°	472.4	475.3	472.4	469.4	466.5	469.4	472.4	475.3	472.4	475.3	472.4
177.5°	472.4	474.7	472.4	472.4	470.0	472.4	472.4	474.7	472.4	474.7	472.4
180°	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	908.6	907.8	909.4	922.9	950.3	975.1
5°	827.6	830.5	833.4	856.2	904.2	969.9
7.5°	765.4	761.1	767.7	804.8	863.7	958.1
10°	722.5	712.9	722.5	773.2	841.8	946.2
12.5°	682.1	670.2	685.2	740.8	823.7	930.4
15°	630.1	641.7	634.9	697.1	796.4	902.7
17.5°	642.4	700.8	654.8	659.1	769.2	874.2
20°	671.7	731.7	691.1	633.8	751.7	851.3
22.5°	698.3	743.5	706.8	612.4	734.2	830.7
25°	718.7	757.4	716.8	593.2	708.9	795.9
27.5°	719.7	725.1	720.1	591.7	677.6	761.3
30°	706.4	683.2	704.5	593.2	655.3	733.6
32.5°	668.4	642.1	660.3	590.1	632.9	697.3
35°	614.2	579.4	604.5	573.5	598.0	635.8
37.5°	557.0	513.0	547.8	540.6	568.4	553.3
40°	518.3	441.0	510.6	508.2	552.1	484.5
42.5°	468.7	403.0	461.8	482.1	534.3	445.7
45°	378.5	370.8	374.6	438.0	496.3	406.4
47.5°	346.1	340.9	344.2	397.9	453.4	389.2
50°	327.1	320.3	325.2	371.8	426.0	375.7
52.5°	300.7	282.4	298.8	336.2	397.7	353.6
55°	226.2	171.0	225.2	295.6	355.1	316.4
57.5°	132.7	98.9	129.8	257.3	300.8	277.0
60°	89.8	83.1	90.8	226.4	264.7	254.1
62.5°	82.0	79.9	82.2	157.6	232.5	231.2
65°	75.1	74.2	75.1	91.0	191.9	197.7
67.5°	68.0	67.0	68.8	69.8	151.6	163.7
70°	63.3	62.3	63.3	64.3	116.3	142.4
72.5°	57.7	56.8	57.7	58.7	81.8	121.8
75°	49.4	48.4	49.4	50.4	54.2	92.0
77.5°	39.9	39.9	40.9	40.9	38.0	63.9
80°	33.6	33.6	34.6	34.6	32.9	46.5
82.5°	27.3	26.5	28.2	29.1	27.2	33.0
85°	16.8	15.8	17.8	18.8	17.8	15.8
87.5°	8.1	7.3	8.9	9.9	9.2	4.7
90°	8.9	8.9	8.9	5.9	2.9	0.0
92.5°	18.5	20.8	18.5	13.1	10.0	7.1
95°	26.9	32.7	26.9	23.8	44.1	23.8
97.5°	51.5	44.6	51.5	174.7	84.6	42.2
100°	103.2	68.3	103.2	350.6	105.8	56.5
102.5°	272.3	149.2	272.3	474.2	122.4	70.7
105°	687.0	454.6	687.0	537.8	141.5	92.1
107.5°	999.9	936.5	999.9	513.4	150.7	113.5
110°	1050.6	1129.1	1050.6	499.2	162.6	127.8





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1020.9	1152.8	1020.9	484.9	176.9	142.0
115°	963.4	1126.1	963.4	463.5	198.3	163.4
117.5°	901.1	1068.4	901.1	458.2	219.7	185.4
120°	853.7	1028.0	853.7	448.7	234.0	202.0
122.5°	813.0	973.4	813.0	436.8	248.2	213.9
125°	763.8	903.2	763.8	436.8	266.7	234.7
127.5°	706.7	844.4	706.7	437.4	284.5	252.0
130°	668.5	799.3	668.5	439.7	296.3	261.5
132.5°	651.4	758.8	651.4	439.7	308.2	273.4
135°	629.0	722.0	629.0	439.7	323.1	291.2
137.5°	604.4	684.0	604.4	439.7	340.3	306.0
140°	589.9	662.6	589.9	439.7	349.9	317.9
142.5°	573.2	641.2	573.2	442.1	359.4	329.8
145°	548.0	606.1	548.0	442.7	373.7	344.7
147.5°	529.9	574.6	529.9	446.3	388.1	362.5
150°	517.8	555.6	517.8	448.7	397.6	374.4
152.5°	508.2	539.0	508.2	448.7	407.2	386.3
155°	496.7	520.0	496.7	451.6	418.6	404.1
157.5°	489.4	506.3	489.4	455.2	432.3	418.3
160°	484.6	499.2	484.6	457.6	439.5	427.9
162.5°	482.2	492.0	482.2	459.9	446.6	435.0
165°	475.6	484.3	475.6	463.5	454.5	448.7
167.5°	472.5	477.8	472.5	466.5	461.6	456.4
170°	472.5	475.4	472.5	466.5	466.4	463.5
172.5°	470.1	473.0	470.1	468.9	471.1	465.9
175°	469.4	466.5	469.4	472.4	475.3	472.4
177.5°	472.4	470.0	472.4	472.4	474.7	472.4
180°	472.4	472.4	472.4	472.4	472.4	472.4

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