

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: P621682

Luminaire Tested: VLT-FA-100U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621682
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-100U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

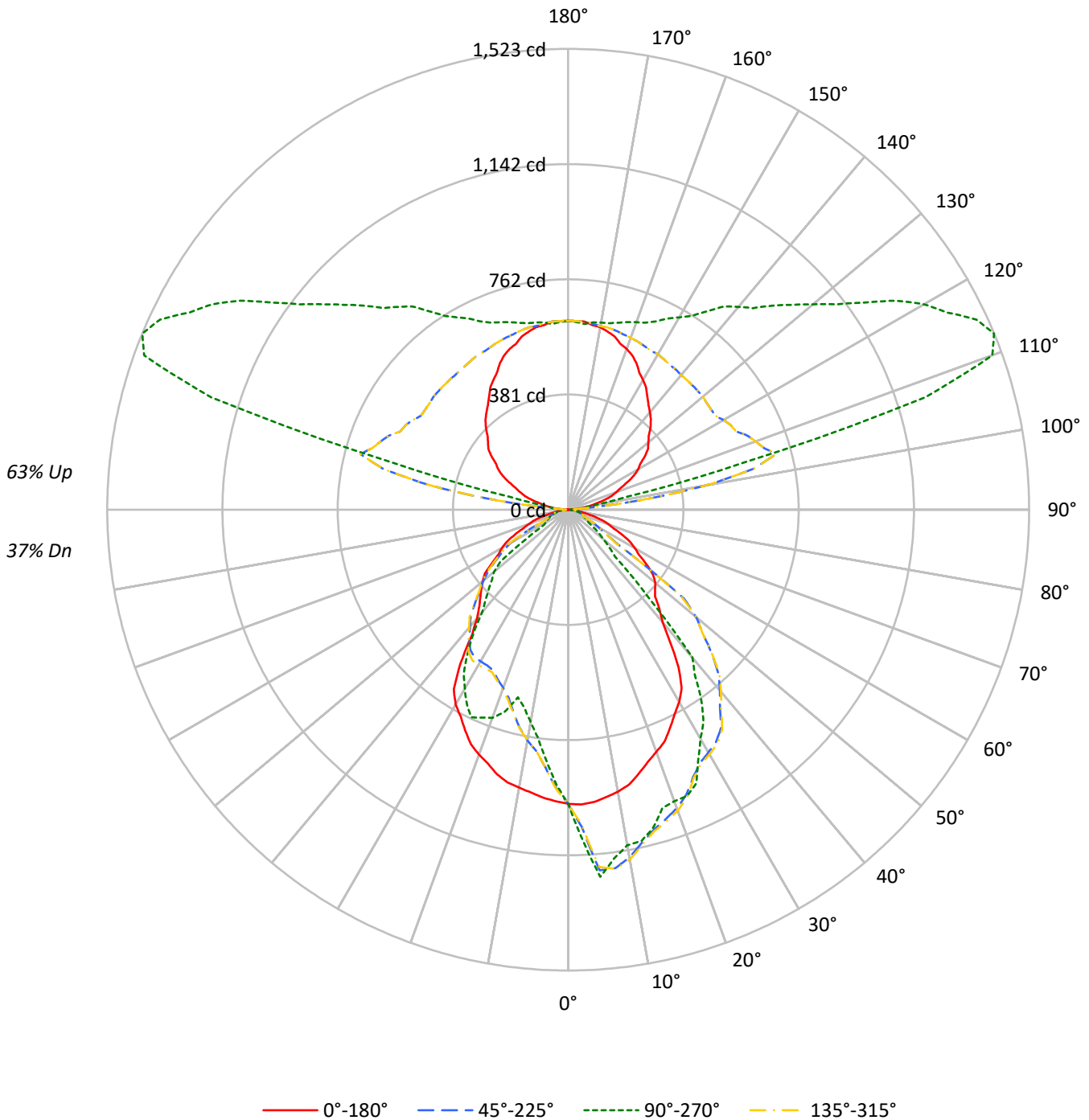
Lumens per Lamp: N/A
Luminaire Lumens: 5357.3 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.6
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	96	92	88	85	87	83	80	78	68	66	64	54	52	51	40	40	39	33
2	88	81	75	70	79	74	69	65	60	57	54	48	45	44	36	35	34	28
3	80	71	65	59	73	65	59	55	54	49	46	43	40	37	33	31	29	25
4	74	64	56	50	67	58	52	47	48	43	40	38	35	33	30	27	26	22
5	68	57	49	44	61	52	45	40	43	38	34	35	31	29	27	25	23	19
6	62	51	43	38	57	47	40	35	39	34	30	31	28	25	25	22	20	17
7	58	46	39	33	52	42	36	31	35	30	27	29	25	22	23	20	18	15
8	54	42	35	30	49	39	32	28	32	27	24	26	23	20	21	18	16	14
9	50	38	31	26	45	35	29	25	30	25	21	24	21	18	19	17	15	13
10	47	35	28	24	42	32	26	22	27	23	19	22	19	16	18	15	14	12

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	1.8
10°-20°	256.8	4.8
20°-30°	384.3	7.2
30°-40°	437.1	8.2
40°-50°	373.8	7.0
50°-60°	252.1	4.7
60°-70°	130.1	2.4
70°-80°	58.7	1.1
80°-90°	18.9	0.4
90°-100°	76.7	1.4
100°-110°	546.7	10.2
110°-120°	742.1	13.9
120°-130°	604.0	11.3
130°-140°	485.8	9.1
140°-150°	383.0	7.1
150°-160°	280.1	5.2
160°-170°	173.9	3.2
170°-180°	59.3	1.1
0°-30°	734.9	13.7
0°-40°	1172.0	21.9
0°-60°	1797.8	33.6
0°-90°	2005.5	37.4
90°-120°	1365.5	25.5
90°-150°	2838.4	53.0
90°-180°	3352.0	62.6
0°-180°	5357.3	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	12	0	12	0	2
95°	31	43	31	43	31	35
105°	122	600	122	600	122	128
115°	216	1487	216	1487	216	214
125°	310	1193	310	1193	310	275
135°	385	954	385	954	385	296
145°	455	800	455	800	455	286
155°	534	687	534	687	534	245
165°	593	640	593	640	593	166
175°	624	616	624	616	624	59
180°	624	624	624	624	624	



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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	7.8	7.9	7.1	7.1	7.1	7.1	7.0	4.0	8.6	8.7
90°	0.0	3.8	7.8	11.8	11.8	11.8	7.8	3.8	0.0	3.8	7.8
92.5°	9.4	13.3	17.3	24.4	27.5	24.4	17.3	13.3	9.4	13.3	17.3
95°	31.4	58.3	31.4	35.5	43.2	35.5	31.4	58.3	31.4	58.3	31.4
97.5°	55.7	111.7	230.7	68.1	58.9	68.1	230.7	111.7	55.7	111.7	230.7
100°	74.6	139.8	463.1	136.3	90.3	136.3	463.1	139.8	74.6	139.8	463.1
102.5°	93.4	161.7	626.3	359.7	197.0	359.7	626.3	161.7	93.4	161.7	626.3
105°	121.7	186.9	710.3	907.4	600.4	907.4	710.3	186.9	121.7	186.9	710.3
107.5°	149.9	199.0	678.1	1320.6	1236.9	1320.6	678.1	199.0	149.9	199.0	678.1
110°	168.7	214.8	659.3	1387.6	1491.2	1387.6	659.3	214.8	168.7	214.8	659.3



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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°	187.6	233.6	640.4	1348.4	1522.6	1348.4	640.4	233.6	187.6	233.6	640.4
115°	215.8	261.9	612.2	1272.4	1487.3	1272.4	612.2	261.9	215.8	261.9	612.2
117.5°	244.9	290.1	605.1	1190.1	1411.2	1190.1	605.1	290.1	244.9	290.1	605.1
120°	266.8	309.1	592.6	1127.6	1357.8	1127.6	592.6	309.1	266.8	309.1	592.6
122.5°	282.5	327.8	576.9	1073.8	1285.6	1073.8	576.9	327.8	282.5	327.8	576.9
125°	310.0	352.2	576.9	1008.8	1193.0	1008.8	576.9	352.2	310.0	352.2	576.9
127.5°	332.8	375.7	577.6	933.4	1115.3	933.4	577.6	375.7	332.8	375.7	577.6
130°	345.3	391.4	580.8	883.0	1055.6	883.0	580.8	391.4	345.3	391.4	580.8
132.5°	361.0	407.1	580.8	860.3	1002.2	860.3	580.8	407.1	361.0	407.1	580.8
135°	384.6	426.8	580.8	830.8	953.6	830.8	580.8	426.8	384.6	426.8	580.8
137.5°	404.2	449.5	580.8	798.2	903.4	798.2	580.8	449.5	404.2	449.5	580.8
140°	419.9	462.1	580.8	779.2	875.1	779.2	580.8	462.1	419.9	462.1	580.8
142.5°	435.6	474.7	583.9	757.1	846.8	757.1	583.9	474.7	435.6	474.7	583.9
145°	455.2	493.6	584.7	723.8	800.5	723.8	584.7	493.6	455.2	493.6	584.7
147.5°	478.8	512.5	589.4	699.9	758.9	699.9	589.4	512.5	478.8	512.5	589.4
150°	494.5	525.1	592.6	683.9	733.8	683.9	592.6	525.1	494.5	525.1	592.6
152.5°	510.1	537.8	592.6	671.2	711.9	671.2	592.6	537.8	510.1	537.8	592.6
155°	533.7	552.9	596.5	656.0	686.7	656.0	596.5	552.9	533.7	552.9	596.5
157.5°	552.5	570.9	601.2	646.4	668.7	646.4	601.2	570.9	552.5	570.9	601.2
160°	565.1	580.4	604.3	640.1	659.3	640.1	604.3	580.4	565.1	580.4	604.3
162.5°	574.5	589.9	607.5	636.8	649.9	636.8	607.5	589.9	574.5	589.9	607.5
165°	592.6	600.2	612.2	628.1	639.6	628.1	612.2	600.2	592.6	600.2	612.2
167.5°	602.8	609.7	616.1	624.1	631.0	624.1	616.1	609.7	602.8	609.7	616.1
170°	612.2	616.0	616.1	624.0	627.9	624.0	616.1	616.0	612.2	616.0	616.1
172.5°	615.3	622.2	619.2	620.9	624.7	620.9	619.2	622.2	615.3	622.2	619.2
175°	624.0	627.8	624.0	619.9	616.1	619.9	624.0	627.8	624.0	627.8	624.0
177.5°	624.0	627.0	624.0	623.9	620.8	623.9	624.0	627.0	624.0	627.0	624.0
180°	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0



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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°	8.7	7.9	9.4	10.3	9.4	4.7
90°	11.8	11.8	11.8	7.8	3.8	0.0
92.5°	24.4	27.5	24.4	17.3	13.3	9.4
95°	35.5	43.2	35.5	31.4	58.3	31.4
97.5°	68.1	58.9	68.1	230.7	111.7	55.7
100°	136.3	90.3	136.3	463.1	139.8	74.6
102.5°	359.7	197.0	359.7	626.3	161.7	93.4
105°	907.4	600.4	907.4	710.3	186.9	121.7
107.5°	1320.6	1236.9	1320.6	678.1	199.0	149.9
110°	1387.6	1491.2	1387.6	659.3	214.8	168.7



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1348.4	1522.6	1348.4	640.4	233.6	187.6
115°	1272.4	1487.3	1272.4	612.2	261.9	215.8
117.5°	1190.1	1411.2	1190.1	605.1	290.1	244.9
120°	1127.6	1357.8	1127.6	592.6	309.1	266.8
122.5°	1073.8	1285.6	1073.8	576.9	327.8	282.5
125°	1008.8	1193.0	1008.8	576.9	352.2	310.0
127.5°	933.4	1115.3	933.4	577.6	375.7	332.8
130°	883.0	1055.6	883.0	580.8	391.4	345.3
132.5°	860.3	1002.2	860.3	580.8	407.1	361.0
135°	830.8	953.6	830.8	580.8	426.8	384.6
137.5°	798.2	903.4	798.2	580.8	449.5	404.2
140°	779.2	875.1	779.2	580.8	462.1	419.9
142.5°	757.1	846.8	757.1	583.9	474.7	435.6
145°	723.8	800.5	723.8	584.7	493.6	455.2
147.5°	699.9	758.9	699.9	589.4	512.5	478.8
150°	683.9	733.8	683.9	592.6	525.1	494.5
152.5°	671.2	711.9	671.2	592.6	537.8	510.1
155°	656.0	686.7	656.0	596.5	552.9	533.7
157.5°	646.4	668.7	646.4	601.2	570.9	552.5
160°	640.1	659.3	640.1	604.3	580.4	565.1
162.5°	636.8	649.9	636.8	607.5	589.9	574.5
165°	628.1	639.6	628.1	612.2	600.2	592.6
167.5°	624.1	631.0	624.1	616.1	609.7	602.8
170°	624.0	627.9	624.0	616.1	616.0	612.2
172.5°	620.9	624.7	620.9	619.2	622.2	615.3
175°	619.9	616.1	619.9	624.0	627.8	624.0
177.5°	623.9	620.8	623.9	624.0	627.0	624.0
180°	624.0	624.0	624.0	624.0	624.0	624.0

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