

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: P621628

Luminaire Tested: VLT-FA-075U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621628
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-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

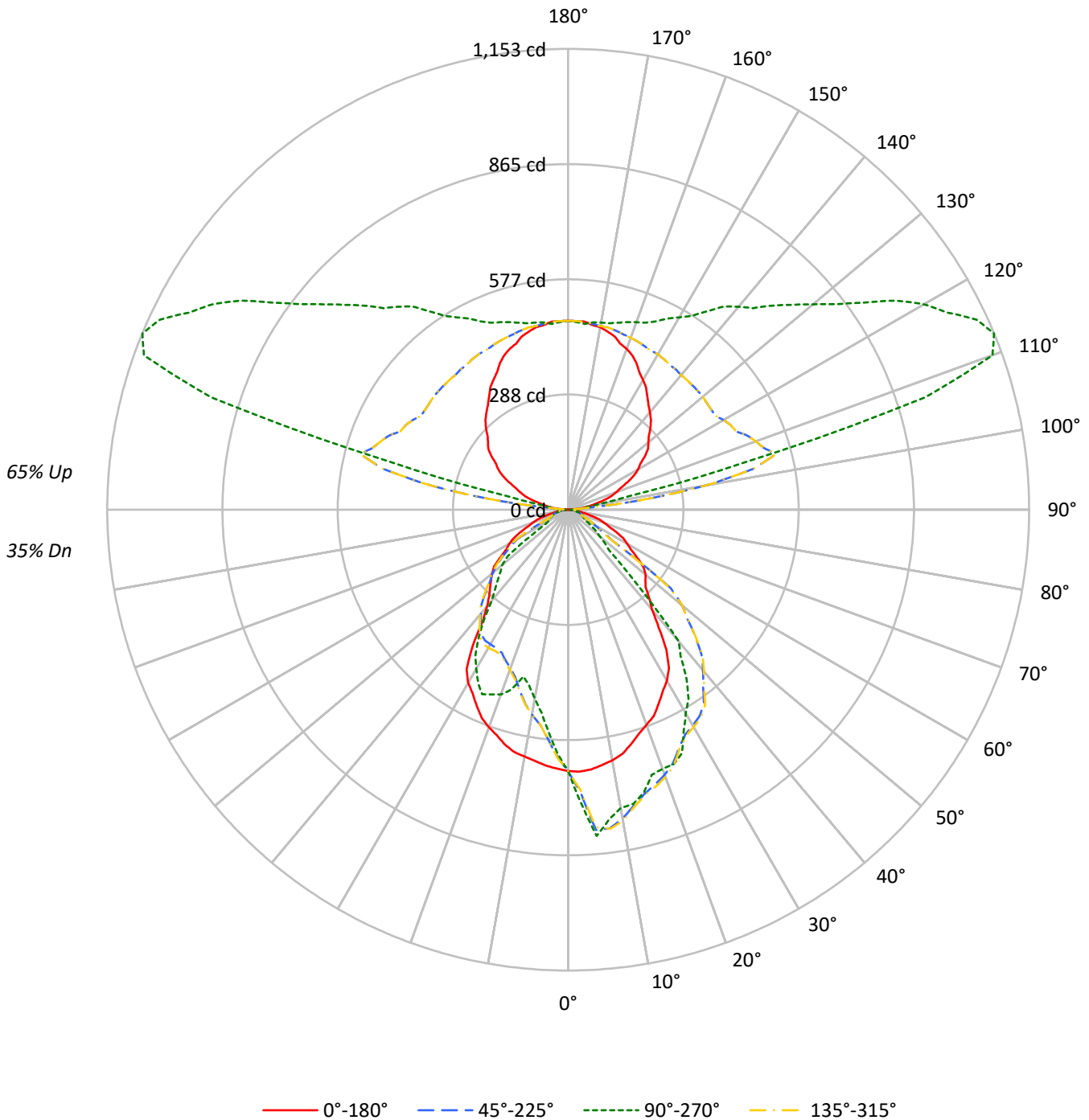
Lumens per Lamp: N/A
Luminaire Lumens: 3886.9 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 35.2
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	104	104	104	104	94	94	94	94	75	75	75		58	58	58		42	42	42	35
1	95	91	87	84	86	82	79	77	66	64	62		52	50	49		38	37	37	30
2	87	80	74	70	78	73	68	64	59	55	53		46	44	42		34	33	32	26
3	80	71	64	59	72	64	59	54	52	48	45		41	38	36		31	29	28	23
4	73	63	56	50	66	57	51	46	47	42	39		37	34	31		28	26	24	20
5	67	56	49	43	61	51	45	40	42	37	34		33	30	27		25	23	21	18
6	62	51	43	37	56	46	40	35	38	33	29		30	27	24		23	21	19	16
7	57	46	38	33	52	42	35	31	34	30	26		28	24	22		21	19	17	14
8	53	41	34	29	48	38	32	27	31	27	23		25	22	19		20	17	15	13
9	49	38	31	26	45	35	28	24	29	24	21		23	20	17		18	16	14	12
10	46	35	28	23	42	32	26	22	27	22	19		22	18	16		17	14	13	11

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	1.6
10°-20°	172.8	4.4
20°-30°	258.5	6.7
30°-40°	294.0	7.6
40°-50°	251.4	6.5
50°-60°	169.6	4.4
60°-70°	87.5	2.3
70°-80°	39.5	1.0
80°-90°	12.8	0.3
90°-100°	58.1	1.5
100°-110°	413.9	10.6
110°-120°	561.9	14.5
120°-130°	457.3	11.8
130°-140°	367.8	9.5
140°-150°	290.0	7.5
150°-160°	212.0	5.5
160°-170°	131.7	3.4
170°-180°	44.9	1.2
0°-30°	494.3	12.7
0°-40°	788.3	20.3
0°-60°	1209.3	31.1
0°-90°	1349.2	34.7
90°-120°	1033.9	26.6
90°-150°	2149.1	55.3
90°-180°	2538.0	65.3
0°-180°	3886.9	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	9	0	9	0	1
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°	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	5.3	5.4	5.0	5.0	5.0	4.9	4.8	2.7	5.8	6.0
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°	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°	6.0	5.5	6.5	7.0	6.4	3.2
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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