

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: P621630

Luminaire Tested: VLT-FA-075U-050D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621630
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-940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

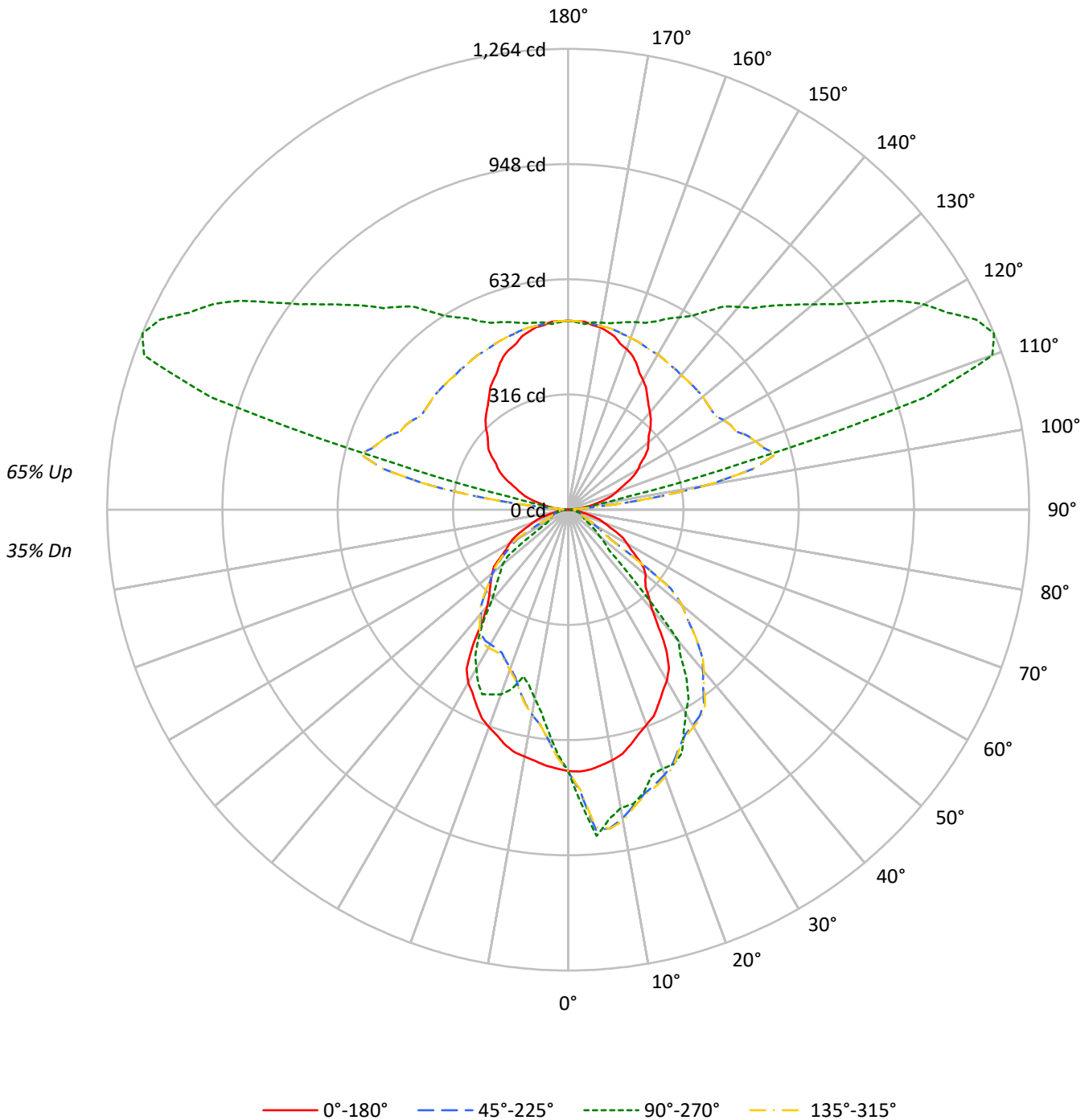
Lumens per Lamp: N/A
Luminaire Lumens: 4260.2 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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			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°	5142	5142	5142	5142
5°	5151	6469	5073	4411
10°	5083	6050	5009	3830
15°	4944	5957	4960	3515
20°	4793	5772	4848	4119
25°	4646	5835	4698	4421
30°	4482	5340	4542	4174
35°	4106	4949	4004	3742
40°	3346	4405	3230	3045
45°	3040	1635	3070	2775
50°	3092	1245	3035	2637
55°	2919	967	2817	1578
60°	2688	743	2668	878
65°	2476	767	2426	929
70°	2203	810	2142	963
75°	1880	848	1799	990
80°	1417	872	1327	1025
85°	963	782	840	963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5630 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.6
10°-20°	189.4	4.4
20°-30°	283.3	6.7
30°-40°	322.2	7.6
40°-50°	275.6	6.5
50°-60°	185.8	4.4
60°-70°	95.9	2.3
70°-80°	43.3	1.0
80°-90°	14.1	0.3
90°-100°	63.7	1.5
100°-110°	453.7	10.6
110°-120°	615.9	14.5
120°-130°	501.3	11.8
130°-140°	403.2	9.5
140°-150°	317.8	7.5
150°-160°	232.4	5.5
160°-170°	144.4	3.4
170°-180°	49.2	1.2
0°-30°	541.8	12.7
0°-40°	864.1	20.3
0°-60°	1325.5	31.1
0°-90°	1478.8	34.7
90°-120°	1133.2	26.6
90°-150°	2355.5	55.3
90°-180°	2781.0	65.3
0°-180°	4260.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	717	717	717	717	717	
5°	715	898	704	612	715	68
15°	666	802	668	473	666	187
25°	587	737	593	558	587	270
35°	469	565	457	427	469	287
45°	300	161	302	273	300	238
55°	233	77	225	126	233	208
65°	146	45	143	55	146	144
75°	68	31	65	36	68	72
85°	12	10	10	12	12	15
90°	0	10	0	10	0	2
95°	26	36	26	36	26	29
105°	101	498	101	498	101	106
115°	179	1234	179	1234	179	178
125°	257	990	257	990	257	229
135°	319	791	319	791	319	246
145°	378	664	378	664	378	237
155°	443	570	443	570	443	203
165°	492	531	492	531	492	138
175°	518	511	518	511	518	49
180°	518	518	518	518	518	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6
2.5°	718.9	743.4	774.3	795.5	804.6	795.5	769.1	743.2	710.7	701.0	678.1
5°	715.1	790.7	882.0	893.1	898.1	893.1	874.0	786.1	704.2	669.3	631.3
7.5°	706.4	838.5	881.0	856.4	856.5	861.1	882.3	834.4	695.0	640.1	593.5
10°	697.6	865.1	859.4	823.9	830.3	827.4	866.0	859.9	687.4	624.0	570.8
12.5°	686.0	873.4	830.9	819.2	826.2	822.2	835.1	868.9	681.0	612.4	544.5
15°	665.5	861.6	807.0	801.9	801.9	805.4	810.6	865.2	667.7	591.5	512.5
17.5°	644.5	837.8	790.3	765.1	762.3	767.1	796.3	843.9	648.9	568.2	481.4
20°	627.6	821.5	773.4	743.8	755.9	745.2	780.0	825.9	634.9	553.7	462.2
22.5°	612.5	801.2	751.9	739.2	755.4	739.5	757.8	805.6	618.6	537.3	447.6
25°	586.8	767.1	719.5	731.3	737.0	731.3	722.4	770.1	593.4	516.4	432.3
27.5°	561.3	731.2	695.3	703.2	685.8	699.2	699.2	731.4	567.4	492.0	427.6
30°	540.9	706.3	683.0	671.5	644.4	665.8	688.1	706.4	548.2	476.2	426.4
32.5°	514.1	683.4	670.8	630.9	613.5	628.0	676.5	682.9	518.4	461.8	425.3
35°	468.7	651.2	648.8	582.8	564.9	578.5	653.9	649.5	457.1	439.2	416.2
37.5°	407.9	622.5	606.6	534.1	505.8	530.6	611.5	619.4	384.5	418.5	395.1
40°	357.2	603.1	575.2	498.0	470.2	494.4	578.8	601.4	344.8	404.0	371.8
42.5°	328.6	585.9	541.9	459.7	287.6	453.9	545.6	583.7	320.3	385.2	351.4
45°	299.6	554.8	493.5	254.5	161.1	242.4	494.2	547.0	302.5	356.7	320.0
47.5°	286.9	516.4	442.9	153.3	136.0	148.9	442.5	508.0	287.1	328.1	290.1
50°	277.0	492.3	406.8	135.1	111.5	130.1	407.5	484.3	271.9	309.0	269.7
52.5°	260.7	463.4	354.9	111.9	96.4	109.2	346.3	454.3	256.2	288.1	244.1
55°	233.3	407.9	148.0	88.0	77.3	84.4	140.7	394.2	225.2	255.2	214.3
57.5°	204.3	347.2	103.8	68.5	59.9	67.8	103.1	333.3	200.5	216.1	186.9
60°	187.3	306.4	84.6	57.5	51.8	56.7	83.8	294.2	185.9	190.2	161.8
62.5°	170.4	264.9	70.0	50.6	48.8	49.8	69.8	251.6	167.8	168.1	114.0
65°	145.8	200.7	51.8	45.9	45.2	45.2	50.3	193.5	142.9	138.6	65.6
67.5°	120.7	144.1	41.6	42.3	41.6	41.6	40.8	140.0	117.8	110.5	49.6
70°	105.0	110.7	38.6	39.3	38.6	38.6	37.9	107.8	102.1	85.7	46.7
72.5°	89.8	75.6	35.7	35.9	35.7	35.7	35.0	70.9	86.9	60.2	42.6
75°	67.8	37.9	30.6	30.6	30.6	30.6	29.9	36.4	64.9	39.2	36.4
77.5°	47.1	25.0	25.4	25.2	25.2	24.7	24.6	24.8	44.3	27.1	29.5
80°	34.3	20.7	21.9	21.1	21.1	21.1	21.1	20.0	32.1	22.8	24.8
82.5°	24.3	16.5	17.8	17.1	17.1	17.1	17.1	16.3	22.2	18.6	20.1
85°	11.7	11.0	11.7	10.2	9.5	10.2	10.9	10.9	10.2	12.3	13.1
87.5°	3.5	5.8	6.0	5.5	5.5	5.5	5.4	5.3	2.9	6.4	6.6
90°	0.0	3.2	6.5	9.8	9.8	9.8	6.5	3.2	0.0	3.2	6.5
92.5°	7.8	11.0	14.3	20.2	22.8	20.2	14.3	11.0	7.8	11.0	14.3
95°	26.1	48.3	26.1	29.5	35.8	29.5	26.1	48.3	26.1	48.3	26.1
97.5°	46.2	92.7	191.5	56.5	48.8	56.5	191.5	92.7	46.2	92.7	191.5
100°	61.9	116.0	384.3	113.1	74.9	113.1	384.3	116.0	61.9	116.0	384.3
102.5°	77.5	134.2	519.7	298.5	163.5	298.5	519.7	134.2	77.5	134.2	519.7
105°	101.0	155.1	589.4	753.0	498.3	753.0	589.4	155.1	101.0	155.1	589.4
107.5°	124.4	165.2	562.7	1095.9	1026.5	1095.9	562.7	165.2	124.4	165.2	562.7
110°	140.0	178.2	547.1	1151.5	1237.5	1151.5	547.1	178.2	140.0	178.2	547.1



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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°	155.7	193.9	531.5	1119.0	1263.5	1119.0	531.5	193.9	155.7	193.9	531.5
115°	179.1	217.3	508.0	1055.9	1234.2	1055.9	508.0	217.3	179.1	217.3	508.0
117.5°	203.2	240.8	502.2	987.6	1171.1	987.6	502.2	240.8	203.2	240.8	502.2
120°	221.4	256.5	491.7	935.7	1126.8	935.7	491.7	256.5	221.4	256.5	491.7
122.5°	234.5	272.0	478.7	891.1	1066.8	891.1	478.7	272.0	234.5	272.0	478.7
125°	257.3	292.3	478.7	837.2	990.0	837.2	478.7	292.3	257.3	292.3	478.7
127.5°	276.2	311.8	479.4	774.6	925.5	774.6	479.4	311.8	276.2	311.8	479.4
130°	286.6	324.8	482.0	732.7	876.0	732.7	482.0	324.8	286.6	324.8	482.0
132.5°	299.6	337.8	482.0	713.9	831.7	713.9	482.0	337.8	299.6	337.8	482.0
135°	319.1	354.2	482.0	689.4	791.3	689.4	482.0	354.2	319.1	354.2	482.0
137.5°	335.4	373.0	482.0	662.4	749.7	662.4	482.0	373.0	335.4	373.0	482.0
140°	348.5	383.5	482.0	646.6	726.2	646.6	482.0	383.5	348.5	383.5	482.0
142.5°	361.5	394.0	484.6	628.3	702.8	628.3	484.6	394.0	361.5	394.0	484.6
145°	377.8	409.6	485.2	600.7	664.3	600.7	485.2	409.6	377.8	409.6	485.2
147.5°	397.3	425.3	489.1	580.8	629.8	580.8	489.1	425.3	397.3	425.3	489.1
150°	410.3	435.8	491.7	567.6	609.0	567.6	491.7	435.8	410.3	435.8	491.7
152.5°	423.4	446.3	491.7	557.0	590.7	557.0	491.7	446.3	423.4	446.3	491.7
155°	442.9	458.8	495.0	544.4	569.9	544.4	495.0	458.8	442.9	458.8	495.0
157.5°	458.5	473.8	498.9	536.4	554.9	536.4	498.9	473.8	458.5	473.8	498.9
160°	468.9	481.7	501.5	531.2	547.1	531.2	501.5	481.7	468.9	481.7	501.5
162.5°	476.8	489.5	504.1	528.5	539.3	528.5	504.1	489.5	476.8	489.5	504.1
165°	491.7	498.1	508.0	521.3	530.8	521.3	508.0	498.1	491.7	498.1	508.0
167.5°	500.2	505.9	511.3	517.9	523.7	517.9	511.3	505.9	500.2	505.9	511.3
170°	508.0	511.2	511.3	517.9	521.0	517.9	511.3	511.2	508.0	511.2	511.3
172.5°	510.6	516.4	513.9	515.3	518.4	515.3	513.9	516.4	510.6	516.4	513.9
175°	517.8	521.0	517.8	514.5	511.3	514.5	517.8	521.0	517.8	521.0	517.8
177.5°	517.8	520.3	517.8	517.7	515.2	517.7	517.8	520.3	517.8	520.3	517.8
180°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	716.6	716.6	716.6	716.6	716.6	716.6
2.5°	669.9	669.3	670.5	680.4	700.7	718.9
5°	610.2	612.3	614.5	631.3	666.6	715.1
7.5°	564.3	561.2	566.0	593.4	636.8	706.4
10°	532.7	525.6	532.7	570.0	620.6	697.6
12.5°	502.9	494.1	505.2	546.1	607.3	686.0
15°	464.5	473.1	468.1	513.9	587.1	665.5
17.5°	473.6	516.7	482.8	485.9	567.1	644.5
20°	495.2	539.4	509.5	467.3	554.2	627.6
22.5°	514.8	548.2	521.1	451.5	541.3	612.5
25°	529.9	558.4	528.4	437.4	522.7	586.8
27.5°	530.6	534.6	530.9	436.2	499.6	561.3
30°	520.8	503.7	519.4	437.4	483.2	540.9
32.5°	492.8	473.4	486.8	435.0	466.6	514.1
35°	452.8	427.2	445.7	422.8	440.9	468.7
37.5°	410.7	378.2	403.8	398.6	419.0	407.9
40°	382.1	325.1	376.4	374.7	407.1	357.2
42.5°	345.6	297.1	340.5	355.4	393.9	328.6
45°	279.1	273.4	276.2	322.9	365.9	299.6
47.5°	255.2	251.3	253.8	293.3	334.2	286.9
50°	241.2	236.2	239.7	274.1	314.1	277.0
52.5°	221.7	208.2	220.3	247.8	293.2	260.7
55°	166.7	126.1	166.0	218.0	261.8	233.3
57.5°	97.8	72.9	95.7	189.7	221.8	204.3
60°	66.2	61.2	66.9	166.9	195.2	187.3
62.5°	60.5	58.9	60.6	116.2	171.4	170.4
65°	55.4	54.7	55.4	67.1	141.5	145.8
67.5°	50.1	49.4	50.7	51.5	111.7	120.7
70°	46.6	45.9	46.6	47.4	85.7	105.0
72.5°	42.6	41.8	42.6	43.3	60.3	89.8
75°	36.4	35.7	36.4	37.2	40.0	67.8
77.5°	29.5	29.5	30.2	30.2	28.0	47.1
80°	24.8	24.8	25.5	25.5	24.3	34.3
82.5°	20.1	19.5	20.8	21.4	20.1	24.3
85°	12.4	11.7	13.1	13.9	13.1	11.7
87.5°	6.6	6.0	7.2	7.7	7.0	3.5
90°	9.8	9.8	9.8	6.5	3.2	0.0
92.5°	20.2	22.8	20.2	14.3	11.0	7.8
95°	29.5	35.8	29.5	26.1	48.3	26.1
97.5°	56.5	48.8	56.5	191.5	92.7	46.2
100°	113.1	74.9	113.1	384.3	116.0	61.9
102.5°	298.5	163.5	298.5	519.7	134.2	77.5
105°	753.0	498.3	753.0	589.4	155.1	101.0
107.5°	1095.9	1026.5	1095.9	562.7	165.2	124.4
110°	1151.5	1237.5	1151.5	547.1	178.2	140.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	<i>1119.0</i>	<i>1263.5</i>	<i>1119.0</i>	<i>531.5</i>	<i>193.9</i>	<i>155.7</i>
115°	1055.9	1234.2	1055.9	508.0	217.3	179.1
117.5°	987.6	1171.1	987.6	502.2	240.8	203.2
120°	935.7	1126.8	935.7	491.7	256.5	221.4
122.5°	891.1	1066.8	891.1	478.7	272.0	234.5
125°	837.2	990.0	837.2	478.7	292.3	257.3
127.5°	774.6	925.5	774.6	479.4	311.8	276.2
130°	732.7	876.0	732.7	482.0	324.8	286.6
132.5°	713.9	831.7	713.9	482.0	337.8	299.6
135°	689.4	791.3	689.4	482.0	354.2	319.1
137.5°	662.4	749.7	662.4	482.0	373.0	335.4
140°	646.6	726.2	646.6	482.0	383.5	348.5
142.5°	628.3	702.8	628.3	484.6	394.0	361.5
145°	600.7	664.3	600.7	485.2	409.6	377.8
147.5°	580.8	629.8	580.8	489.1	425.3	397.3
150°	567.6	609.0	567.6	491.7	435.8	410.3
152.5°	557.0	590.7	557.0	491.7	446.3	423.4
155°	544.4	569.9	544.4	495.0	458.8	442.9
157.5°	536.4	554.9	536.4	498.9	473.8	458.5
160°	531.2	547.1	531.2	501.5	481.7	468.9
162.5°	528.5	539.3	528.5	504.1	489.5	476.8
165°	521.3	530.8	521.3	508.0	498.1	491.7
167.5°	517.9	523.7	517.9	511.3	505.9	500.2
170°	517.9	521.0	517.9	511.3	511.2	508.0
172.5°	515.3	518.4	515.3	513.9	516.4	510.6
175°	514.5	511.3	514.5	517.8	521.0	517.8
177.5°	517.7	515.2	517.7	517.8	520.3	517.8
180°	517.8	517.8	517.8	517.8	517.8	517.8

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