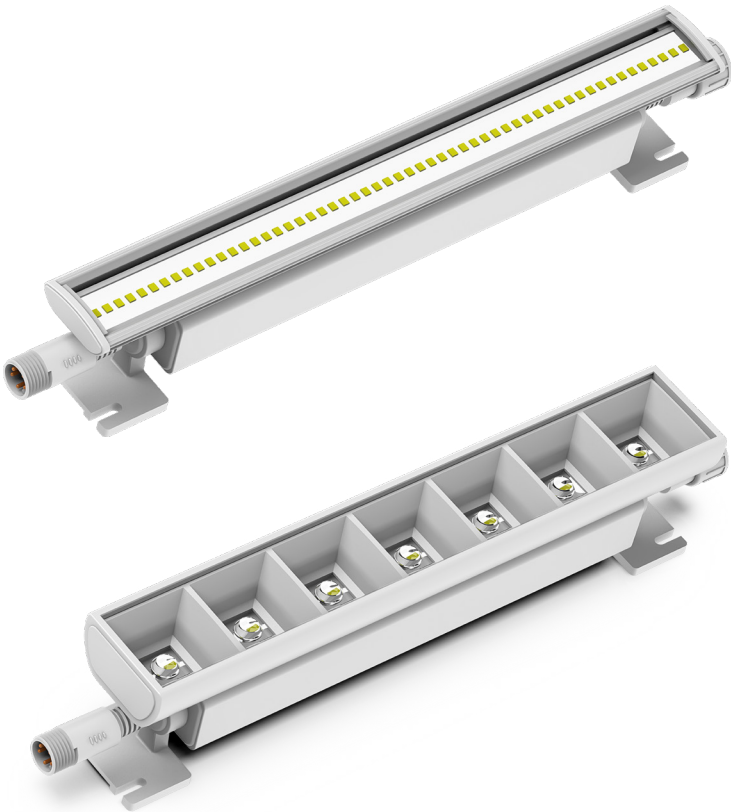
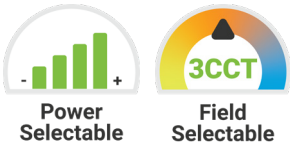


Veil LCL™
Linear Cove Lighting



APPLICATIONS

Commercial and Industrial

FEATURES

Construction

- Extruded Aluminum Body
- Flexible adjustment: allowing aiming within +/-90°

Electrical & Technical

- Input Voltage: 120-277V
- Input Frequency: 50/60Hz
- Projected Life: L70 > 50,000 hrs
- PF: >0.9
- CRI: >90
- THD: <20%
- Adjustable Lumen Output
- CCT Selectable:
3000K/3500K/4000K
- CCT: 2200K, 2700K, 3000K, 3500K
4000K, 5000K [Option]
- Operating Temp.: -13°F~122°F
- Damp Location Rated

Controls

- 0-10V Dimming

Lumen Output

- 1': PC LENS 110°
- 5W: 600lm
 - 7.5W: 900lm
 - 10W: 1,200lm
- 4': PC LENS 110°
- 20W: 2,400lm
 - 30W: 3,600lm
 - 40W: 4,800lm

Finish

- White
- Powder coating protects against: corrosion, scratches, and UV damage.

Optical

- PC Lens: 110°
- Louver Lens:
 - 20°
 - 35°
 - 50°
 - 80°
 - 25°x70°
 - 40°x70°
- Asymmetrical [25°/30°x60°]

Installation/Mounting

- Surface Mount
- Run Length Limits: See Page 4
- Linkable

Warranty

- 5 Year Warranty
- See warranty documentation for more information.



ORDERING INFORMATION

EXAMPLE: VEIL-LCL-4-40-C-50-U-D-SM

VEIL-LCL							
Series	Length	Wattage	CCT	Distribution	Input Voltage	Dimming	Mounting Option
VEIL-LCL	1 - 1'	10 - 5W/7.5W/10W	C - 3000K/3500K/4000K	20 - 20°	U - 120-277V	D - 0-10V Dimming	SM - Surface Mount
	4 - 4'	40 - 20W/30W/40W	22 - 2200K 27 - 2700K 35 - 3500K 30 - 3000K 40 - 4000K 50 - 5000K	35 - 35° 50 - 50° 80 - 80° 110 - 110°PC Lens 2570 - 25°x70° 4070 - 40°x70° ASYM - Asymmetric			
	Power Harness Box		Extension Cable		Splicing Postioning Trunking		
	VEIL-LCL-PHB (Power Harness Box)		VEIL-LCL-EXT1 (1' 18AWG Extension Cable) VEIL-LCL-EXT3 (3' 18AWG Extension Cable) VEIL-LCL-EXT12 (12' 18AWG Extension Cable)		VEIL-LCL-SPT1 (Splicing Positioning Track, Aluminum (7.87') VEIL-LCL-SPT2 (Splicing Positioning Track, PC (82'/Roll))		

FEATURES

Housing

- Extrude aluminum provides strength and durability.
- Power Coating protects against corrosion, scratches and UV damage.

- Minimal gap between fixtures for 1', not noticeable, while the 4' version can be seamlessly connected for a uniform appearance.
- Quick connects and pre-installed mounts allow for fast and easy installation.

CCT Selectable DIP Switch

Wattage Selectable DIP Switch

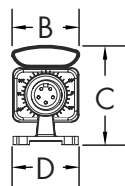
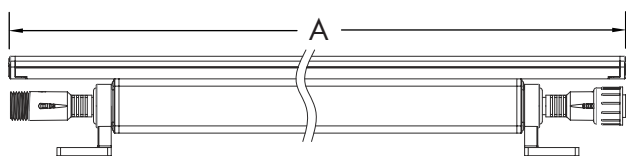
- Adjustable power options (5W/7.5W/10W & 20W/30W/40W) for versatile lighting needs.
- Easily select between 3000K, 3500K, and 4000K color temperatures for different environments.

- Extruded Adjustable Mounting Bracket Made of Die-Cast Aluminum: The bracket is made from die-cast aluminum for enhanced durability and corrosion resistance
- It allows aiming within a +/- 90-degree range for versatile lighting angles.
- Multiple Mounting Options: Can be mounted on any surface, ceiling, or vertical direction for flexible installation.
- Fixed Screw for Secure Positioning: Includes a fixing screw to lock the aiming position for stability.
- Optional Additional Brackets for Enhanced Security: Additional brackets can be added for extra safety and stability.

Standard 3 Optics (110° & Asymmetric & 25x70°)

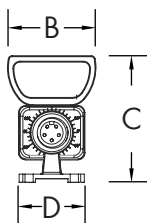
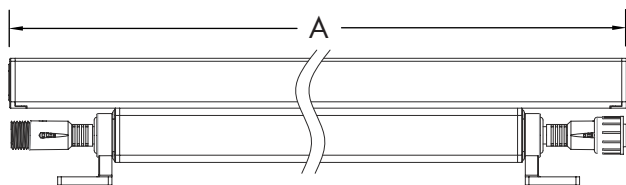
- 110° Optic: Provides broad, uniform light, ideal for general lighting.
- Asymmetric Optic: Delivers a directed beam, perfect for highlighting areas with minimal spill light.
- 25x70° Optic: Offers a focused beam, suitable for long-distance or spot lighting.

DIMENSIONS



PC Lens (110°)

Size	A	B	C	D
1'	12"	1.48"	2.17"	1.42"
4'	48"	1.48"	2.17"	1.42"



Louver Lens (20°, 35°, 50°, 80°, 25°x70°, 40°x70°, Asymmetrical [25°/30°x60°])

Size	A	B	C	D
1'	11.34"	1.93"	2.76"	1.42"
4'	44.41"	1.93"	2.76"	1.42"

LUMEN OUTPUT

PC Lens (110°)

SKU	Length (ft)	Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
VEIL-LCL-1-10-C-110-U-D-SM	1	5/7.5/10	600 (5W)	120	900 (7.5W)	120	1200 (10W)	120
VEIL-LCL-4-40-C-110-U-D-SM	4	20/30/40	2400 (20W)	120	3600 (30W)	120	4800 (40W)	120

Optic Lens

SKU	Length (ft)	Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
VEIL-LCL-1-10-C-XX-U-D-SM	1	5/7.5/10	550 (5W)	110	825 (7.5W)	110	1100 (10W)	110
VEIL-LCL-4-40-C-XX-U-D-SM	4	20/30/40	2200 (20W)	110	3300 (30W)	110	4400 (40W)	110

ACCESSORIES



1', 3', 12'
Extension Cable
(SJT/18AWG)
[VEIL-LCL-EXT1]
[VEIL-LCL-EXT3]
[VEIL-LCL-EXT12]



Splicing Positioning Track
(Aluminum 7.87')
[VEIL-LCL-SPT1]



Splicing Positioning Track
(PC 82'/Roll)
[VEIL-LCL-SPT2]



Power Harness Box
[VEIL-LCL-PHB]

APPLICATION



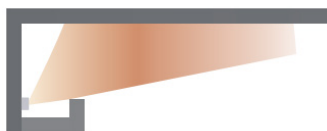
Cove: Architectural ledge or recess on the upper part of a wall.
Beam Angle: 80°, 40°x70°, 50°



Graze: Light that is close to and parallel to a surface and creates strong contrast.
Beam Angle: 25°x70°, 40°x70°, 20°

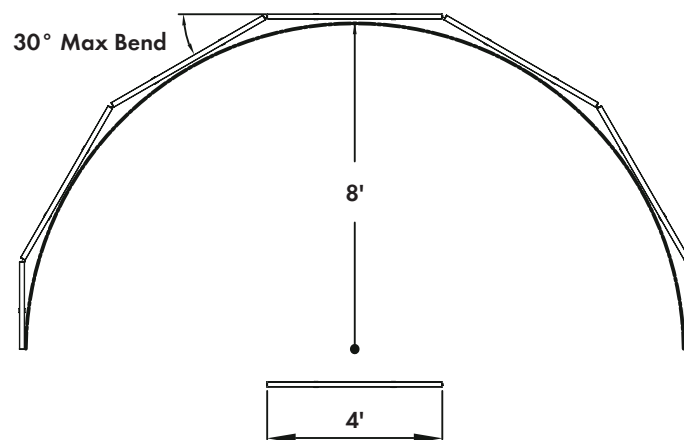
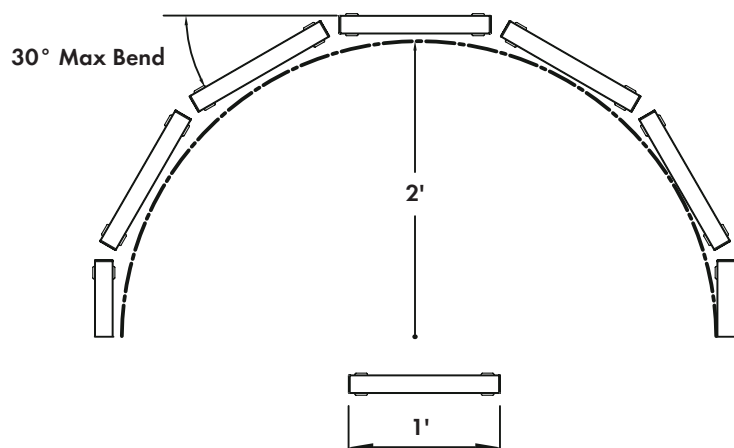


Wash: Light striking a surface from a distance that reduces or eliminates contrast.
Beam Angle: 110°, 80°, 50°



Asymmetric: Light that uniformly illuminates a ceiling or wall without dark shadows in the cove.
Beam Angle: Asymmetric

RADIUS BEND



RUN LENGTH LIMITS

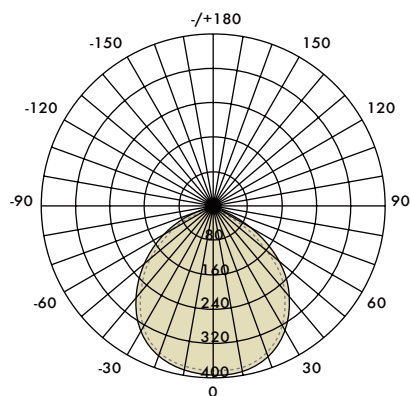
Run Length Limits (ft)	1 FT			4FT		
Fixture Input Wattage	5W	7.5W	10W	20W	30W	40W
Maximum Run Length (ft) @120V	144'	96'	72'	144'	96'	72'
Maximum Run Length (ft) @277V	330'	220'	165'	332'	220'	165'

Notes:

1. When 1ft and 4ft are used on a line, all lamps must use the same power level, such as high-end, mid-range, and low-end, otherwise the brightness will be inconsistent.
2. When using high power, Run must be limited to 72ft when using both 1ft and 4ft fixture is a single run at 120V.
Run must be limited to 165ft when using both 1ft and 4ft fixture in a single run at 277V.
3. When using a medium power range, Run must be limited to 96ft when using both 1ft and 4ft fixtures in a single run at 120V.
Run must be limited to 220ft when using both 1ft and 4 ft fixtures in a single run at 277V.
4. When using low power range, Run must be limited 144 ft when using both 1ft and 4ft fixtures in a single run at 120V.
Run must be limited to 330ft when using both 1ft and 4ft fixture in a single run at 277V.
5. Run length is limited based on common 30mA dimmer limit, Run length could be extended to 200ft for dimmers with 50mA current rating.
6. When to Use Grounding: Grounding is required when installing fixtures in high-power or long-run setups to ensure safety.
The ground wire should be connected to the bracket, and every three fixtures in a continuous run should be grounded to prevent electrical hazards.

DISTRIBUTION

VEIL-LCL-1-10-C-110-U-D-SM



AVERAGE BEAM ANGLE (50%): 118.0 DEG

Lumen/ft: 1071lm/ft, Input Watts: 10.0W (1ft), Efficacy: 107.16lm/W

Zonal Flux DiagramL

γ	C0	C45	C90	C135	C180
10	387.1	381.4	378.3	384.5	398.9
20	372.6	364.0	357.5	353.0	375.5
30	336.3	332.9	326.4	309.1	341.0
40	302.6	285.3	273.2	281.6	301.8
50	230.2	224.6	221.4	226.7	236.8
60	202.4	149.5	149.8	166.2	169.7
70	95.53	77.07	75.16	116.4	52.39
80	6.966	6.986	11.63	6.247	5.803
90	1.884	1.902	0.4819	2.455	1.435
DEGL	UMINOUS INTENSITY:cd				

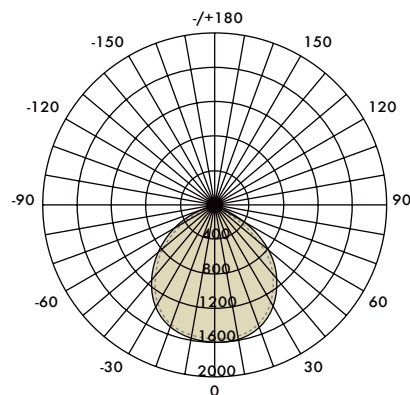
Zonal Lumens

γ	Φ_{zone}	Φ_{total}
0-10	37.20	37.20
10-20	107.3	144.5
20-30	163.8	308.3
30-40	197.8	506.1
40-50	202.7	708.9
50-60	179.5	888.4
60-70	129.1	1017
70-80	44.09	1062
80-90	4.697	1066

UMINANCE cd.lm 21

G(DEG)	C0/180	C90/270
85	3955	1206
80	4011	6696
75	4013	17309
70	27931	21976
65	25403	26228
60	40477	29950
55	36225	32748
50	35812	34445
45	37502	35134

VEIL-LCL-4-40-C-110-U-D-SM (4000K)



AVERAGE BEAM ANGLE (50%): 115.2 DEG

Lumen/ft: 1136.9lm/ft, Total Lumens: 4547.72 lm (4ft), Input Watts: 40.0W, Efficacy: 119.05lm/W

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	1606	1594	1595	1622	1644
20	1549	1533	1512	1576	1555
30	1394	1414	1383	1447	1412
40	1233	1198	1193	1253	1239
50	969.5	974.9	953.4	1016	978.7
60	817.0	679.3	651.7	702.0	705.2
70	362.0	306.0	354.1	407.7	286.3
80	29.21	31.20	69.74	64.35	25.82
90	7.652	7.716	0.3349	9.601	7.676
DEGL	UMINOUS INTENSITY:cd				

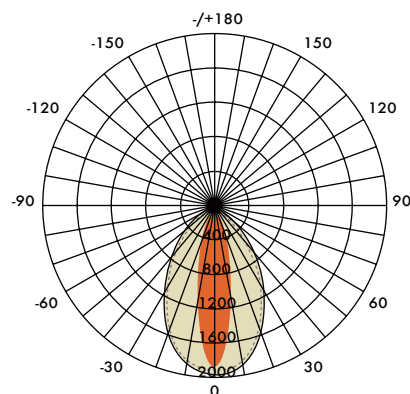
Zonal Lumens

γ	Φ_{zone}	Φ_{total}
0-10	154.6	154.6
10-20	448.1	602.7
20-30	685.7	1288
30-40	829.5	2118
40-50	857.4	2975
50-60	766.7	3742
60-70	562.5	4304
70-80	205.2	4510
80-90	22.63	4532

LUMINANCE cd.lm 21

G(DEG)	C0/180	C90/270
85	3121	2178
80	3337	7968
75	4789	14991
70	21002	20541
65	22037	23638
60	32419	25859
55	30400	27851
50	29925	29430
45	30775	30263

VEIL-LCL-1-10-C-2570-U-D-SM



AVERAGE BEAM ANGLE (50%): 45.4 DEG

Lumen/ft: 1264.1lm/ft, Input Watts: 10.0W (1ft), Efficacy: 118.14lm/W

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	1344	1641	1883	1530	1267
20	551.3	926.0	1673	833.2	512.5
30	256.8	378.4	967.3	338.0	230.4
40	119.8	149.3	509.0	135.0	104.6
50	67.82	68.27	74.82	63.03	62.56
60	39.23	33.13	31.12	30.74	31.57
70	14.11	11.89	10.83	9.751	11.15
80	3.061	2.282	1.666	1.724	2.005
90	0.0015	0.1283	0	0.1283	0
DEGL	UMINOUS INTENSITY:cd				

Zonal Lumens

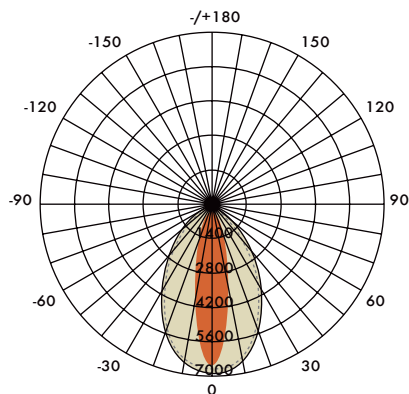
γ	Φ_{zone}	Φ_{total}
0-10	165.2	165.2
10-20	354.3	519.5
20-30	330.7	850.2
30-40	225.1	1075
40-50	110.9	1186
50-60	46.32	1233
60-70	22.20	1255
70-80	7.164	1262
80-90	0.9051	1263

LUMINANCE cd.lm 21

G(DEG)	C0/180	C90/270
85	89	15
80	176	96
75	278	213
70	413	317
65	589	410
60	785	622
55	955	785
50	1055	1164
45	1217	2690

DISTRIBUTION

VEIL-LCL-4-40-C-2570-U-D-SM



AVERAGE BEAM ANGLE (50%): 47.4 DEG

Lumen/ft:1215.0lm/ft, Total Lumens:4860.0lm (4ft), Input Watts: 40.0W, Efficacy:126.56lm/W

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	5700	6357	6356	4826	3906
20	2724	3958	5282	2543	1761
30	1281	1761	3630	1209	867.1
40	609.6	765.5	2113	570.1	411.1
50	314.5	359.3	420.3	281.1	247.6
60	185.2	176.2	153.0	133.0	115.7
70	72.96	63.30	55.50	43.78	38.53
80	19.54	14.96	11.46	6.862	6.476
90	1.793	0.4150	0.0460	0.1816	0.0654
DEGL	UMINOUS INTENSITY:cd				

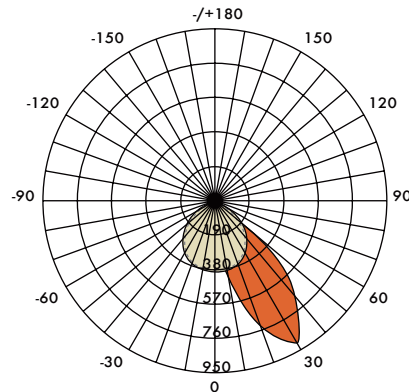
Zonal Lumens

γ	Φ zone	Φ total
0-10	577.7	577.7
10-20	1258	1836
20-30	1224	3060
30-40	910.3	3970
40-50	515.6	4486
50-60	223.7	4710
60-70	103.8	4813
70-80	35.77	4849
80-90	5.669	4855

LUMINANCE cd.lm 21

G(DEG)	C0/180	C90/270
85	848	239
80	1125	660
75	1552	1191
70	2133	1623
65	2737	2036
60	3705	3060
55	4317	4074
50	4893	6539
45	5838	15232

VEIL-LCL-1-10-C-ASYM-U-D-SM



AVERAGE BEAM ANGLE (50%): 57.7 DEG

Lumen/ft: 965.73lm/ft, Input Watts: 10.59W (1ft), Efficacy: 91.11lm/W

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	687.5	589.5	402.7	292.9	259.7
20	898.1	832.9	399.8	230.3	206.8
30	789.8	940.5	315.0	190.8	193.2
40	495.3	654.5	167.5	150.0	148.4
50	121.9	254.6	64.63	91.97	89.54
60	49.89	46.10	36.96	44.59	51.49
70	17.66	14.76	15.76	20.06	24.83
80	3.615	2.688	2.907	3.945	4.903
90	0.0011	0.0917	0	0.1426	0
DEGL	UMINOUS INTENSITY:cd				

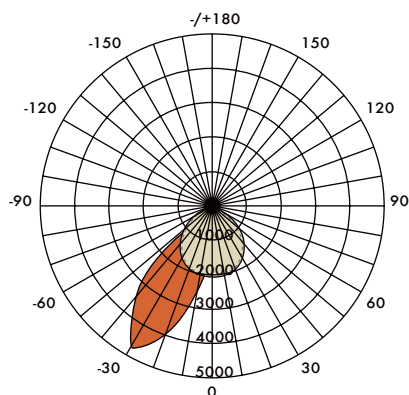
Zonal Lumens

γ	Φ zone	Φ total
0-10	39.76	39.76
10-20	132.8	172.5
20-30	230.3	402.9
30-40	261.0	663.9
40-50	180.9	844.8
50-60	76.06	920.8
60-70	31.57	952.4
70-80	11.13	963.5
80-90	1.424	965.0

LUMINANCE cd.lm 21

G(DEG)	C0/180	C90/270
85	1175	529
80	2082	1674
75	3380	3073
70	5163	4609
65	7286	6106
60	9978	7392
55	14233	8428
50	18962	10054
45	49288	15310

VEIL-LCL-4-40-C-ASYM-U-D-SM



AVERAGE BEAM ANGLE (50%): 58.3 DEG

Lumen/ft:1153.25lm/ft, Total Lumens:4753.0 lm (4ft), Input Watts: 40.0W, Efficacy:123.45lm/W

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	1193	1349	1856	2725	3219
20	970.2	1043	1699	3779	4490
30	914.6	883.6	1316	4114	4200
40	660.1	706.7	776.0	2955	2822
50	392.7	400.9	330.3	1364	757.0
60	227.7	203.3	185.8	275.4	291.5
70	100.9	84.87	77.09	83.78	97.16
80	18.45	14.13	14.85	17.51	22.16
90	0.0581	0.1744	0.0339	0.2034	0.9712
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

γ	Φ zone	Φ total
0-10	187.9	187.9
10-20	635.4	823.2
20-30	1100	1923
30-40	1253	3175
40-50	926.4	4102
50-60	419.3	4521
60-70	161.8	4683
70-80	55.91	4739
80-90	7.890	4747

LUMINANCE cd.lm 21

G(DEG)	C0/180	C90/270
85	506	264
80	1063	855
75	1997	1522
70	2951	2254
65	3896	3038
60	4554	3716
55	4957	4259
50	6109	5139
45	7284	7353