CC Series Flat Fan Nozzle

CC series flat fan nozzle Series

Small capacity (CC)
1/8 "-1/4"
NPT or BSPT(male)

Medium capacity (CC-N)
1/8"-3/4"
NPT or BSPT(male)

Large capacity (CC-M)
1"-2 "
NPT or BSPT(male)

With strainer (CC-L)
1/8"-1/4"
NPT or BSPT(male)

Design features

CC flat fan spray nozzles feature a high impact solid stream or a flat fan spray pattern with the spray angles between 0°-110°.

They produce a uniform distribution of small to medium sized drops. Properly aligned, the specially tapered spray edges make a evenly coverage.

CC and CC-L series nozzles have external piping thread connector and their flow rate are lower than 3.9 l/min at 3 bar. Inner strainer is available for CC-L Series nozzle with male connector only.

Standard flow rates of CC-N and CC-M Series are 3.9 l/min or larger at 3 bar.All have external piping thread connetor.

Common application

- Chemical cleaning
- Product washing /rinsing
- Pressure cleaning
- cooling and quenching
- Fire suppression / prevention
- Fire fighting
- Net blanket low pressure cleaning
- Spray coating
- Roller and scraper ordering

Fan ceramic core

CCTC

Fan tungalloy

CTCK

Jet stabilizer for reducing turbulence

ordering info

Jet stabilizer type

CY21370—SS—1/8x1/8

- CY21370 — Jet stabilizer type
- SS — Material code
- 1/8x1/8 — Connection dimension

ordering info

CC 1/4—SS 6505

- CC — Nozzle type
- 1/4 — Inlet size
- SS — Material code
- 6505 — Capacity size

Remark:
BRASS
SS-stainless steel
316SS-316 stainless steel

Jet stabilizer type

Jet stabilizer for reducing turbulence number	Inlet Conn. NPT or BSPT	Nozzle Inlet Conn. NPT or BSPT(in)	High(mm)	Net weight (kg)
CY21370-1/8x1/8	1/8	1/8	19	0.007
CY21370-1/4x1/4	1/4	1/4	24	0.01
CY21370-3/8x3/8	3/8	3/8	27	0.03
CY21370-1/8x1/8	½	½	32	0.05
CY21370-1/2x1/2	3/4	3/4	38	0.10
CY21370-1x1	1	1	46	0.18
CY21370-11/4x11/4	11/4	11/4	57	0.33

Design features

Jet stabilizers installed in the heads of flat fan spray nozzle increase the spray distance and the durative power. When spray nozzles are installed on T-shape pipe, branching pipe or bend pipe and the fluid swerve into the nozzle, turbulance occurs,which diffuses the jet flow. The stabilizer minimize the diffusion and concentrate the jet flow through a thinner and stabler way, offering a better performance in jet distance and durative power.

Performance data

Spray angle (3 bar)	Capacity Size	Nozzle Type /Inlet Conn. NPT												Equivalent spray orifice(mm)	Capacity (L/min)											Spray angle			
		CC		CC L		CC N					CC-M				0.3 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	14 bar
		1/8	1/4	1/8	1/4	1/8	1/4	3/8	½	3/4	1	1/1/4	2																
110°	11001	●	●	●	●									0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	94°	110°	121°	124°
	110015	●	●	●	●									0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	97°	110°	121°	124°
	11002	●	●	●	●									0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	98°	110°	120°	123°
	11003	●	●	●	●									1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	99°	110°	120°	123°
	11004	●	●	●	●									1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	100°	110°	119°	122°
	11005	●	●	●	●									1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	100°	110°	118°	122°
	11006	●	●	●	●									1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	101°	110°	117°	122°
	11008	●	●	●	●									1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	102°	110°	117°	121°
	11010	●	●											2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	103°	110°	117°	119°
	11015	●	●											2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	104°	110°	117°	118°
	11020	●	●				●							2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105°	110°	117°	118°
95°	950050	●		●										0.46			0.316	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	81°	95°	105°	113°
	9501		●	●	●									0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	81°	95°	105°	113°
	95015	●		●										0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	82°	95°	105°	113°
	9502	●	●	●	●									0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	82°	95°	105°	113°
	9503	●	●	●	●									1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	83°	95°	104°	111°
	9504	●	●	●	●									1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	84°	95°	103°	108°
	9505	●	●	●	●									1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	84°	95°	102°	107°
	9506	●	●	●	●									1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	86°	95°	101°	106°
	9508	●	●	●	●									1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	87°	95°	100°	105°
	9510					●	●		●					2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	89°	95°	100°	105°
	9515					●	●		●					2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	90°	95°	100°	105°
	9520					●	●							2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	90°	95°	100°	105°
	9530					●	●		●					3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	91°	95°	101°	105°
	9540						●							4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	92°	95°	100°	105°
	9550						●		●					4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	93°	95°	99°	103°
	9560						●		●					4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	93°	95°	99°	103°
	9570						●	●	●					5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	93°	95°	99°	103°
	95100								●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	93°	95°	99°	102°
	95150								●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	93°	95°	99°	102°
80°	850050	●	●	●	●									0.46		0.11	0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	61°	80°	95°	101°
	800067	●	●	●	●									0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	67°	80°	94°	99°
	8001	●	●	●	●									0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	68°	80°	89°	92°
	80015	●	●	●	●									0.79		0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	68°	80°	89°	92°
	8002	●	●	●	●									0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	69°	80°	88°	91°
	8003	●	●	●	●									1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	70°	80°	87°	90°
	8004	●	●	●	●									1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	71°	80°	86°	89°
	8005	●	●	●	●									1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	71°	80°	86°	89°
	8006	●	●	●	●									1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	72°	80°	85°	88°
	8008	●	●	●	●									1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	72°	80°	84°	87°
	8010					●	●	●	●					2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	73°	80°	84°	87°
	8015					●	●		●					2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	74°	80°	83°	86°
	8020					●	●	●	●					2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	74°	80°	83°	86°
	8030					●	●	●	●					3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	74°	80°	83°	86°
	8040					●	●	●	●					4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	74°	80°	83°	86°
	8050						●	●	●					4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	74°	80°	83°	85°
	8060						●	●	●					4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	75°	80°	83°	85°
	8070						●	●	●					5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	75°	80°	83°	86°
	80100							●	●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	75°	80°	83°	86°
	80150							●	●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	73°	80°	84°	86°
	80200								●	●				8.7	25	36	64	79	91	102	112	121	144	205	270	74°	80°	82°	85°
	80400													12.7	50	91	129	158	182	205	225	240	290	410	540	78°	80°	81°	83°
73°	730077	●	●	●	●									0.56		0.18	0.25	0.30	0.35	0.39	0.43	0.46	0.55	0.78	1.0	53°	73°	86°	92°
	730154	●	●	●	●									0.81	0.19	0.35	0.50	0.61	0.70	0.78	0.86	0.93	1.1	1.6	2.1	55°	73°	84°	88°
	730231		●		●									1.0	0.29	0.53	0.74	0.91	1.1	1.2	1.3	1.4	1.7	2.4	3.1	56°	73°	83°	87°
	730308	●	●	●										1.1	0.38	0.70	0.99	1.2	1.4	1.6	1.7	1.9	2.2	3.1	4.2	58°	73°	82°	86°
	730462		●		●									1.4	0.58	1.1	1.5	1.8	2.1	2.4	2.6	2.8	3.3	4.7	6.2	60°	73°	80°	84°
	730770	●		●										1.8	0.96	1.8	2.5	3.0	3.5	3.9	4.3	4.6	5.5	7.8	10.4	64°	73°	77°	82°
65°	650017	●		●										0.28			0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.17	0.23	44°	65°	77°	86°
	650033	●		●										0.38			0.11	0.13	0.15	0.17	0.18	0.20	0.24	0.34	0.44	47°	65°	76°	83°
	650067	●	●	●	●									0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	50°	65°	75°	81°
	6501	●	●	●	●									0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	51°	65°	74°	80°
	65015	●	●	●	●									0.79		0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	51°	65°	74°	80°
	6502	●	●	●	●									0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	52°	65°	73°	79°
	65025	●		●										1.0	0.31	0.57	0.81	0.99	1.1	1.3	1.4	1.5	1.8	2.5	3.4	52°	65°	73°	79°
	6503	●		●										1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	53°	65°	72°	78°
	6504	●	●	●	●									1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	53°	65°	72°	76°
	6505	●	●	●	●									1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	53°	65°	72°	76°
	6506	●	●	●	●									1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	54°	65°	72°	75°
	6508	●	●	●	●									1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	55°	65°	71°	74°
	6510					●	●	●						2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	56°	65°	71°	74°
	6515					●	●	●	●					2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	56°	65°	70°	73°
	6520					●	●		●					2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	57°	65°	70°	73°
	6530					●	●							3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	58°	65°	69°	72°
	6540					●	●	●						4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	59°	65°	68°	72°
	6550					●	●	●	●					4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	60°	65°	68°	71°
	6560						●	●	●					4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	60°	65°	68°	71°
	6570						●	●	●					5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	60°	65°	68°	71°
	65100							●	●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	58°	65°	69°	70°
	65150								●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	59°	65°	68°	70°
	65200								●	●				8.7	25	46	64	79	91	102	112	121	144	205	270	60°	65°	67°	69°

Spray angle (3 bar)	Capacity Size	Nozzle Type /Inlet Conn. NPT												Equivalent spray orifice(mm)	Capacity(L/min)											Spray angle			
		CC		CC-L		CC-N					CC-M				0.3 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	14 bar
		1/8	1/4	1/8	1/4	1/8	1/4	3/8	½	3/4	1	1/1/4	2																
50°	5001	●	●	●	●									0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	37°	50°	59°	65°
	5002	●	●	●	●									0.91		0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	39°	50°	57°	63°
	5003	●	●	●	●									1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	40°	50°	56°	62°
	5004	●	●	●	●									1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	42°	50°	56°	61°
	5005	●	●	●	●									1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	44°	50°	56°	61°
	5006	●	●	●	●									1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	45°	50°	56°	60°
	5008	●	●	●	●									1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	45°	50°	55°	60°
	5010	●	●	●	●	●	●	●						2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	45°	50°	55°	59°
	5015						●	●	●					2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	45°	50°	55°	59°
	5020					●	●	●	●					2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	45°	50°	55°	59°
	5030					●	●	●	●					3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	45°	50°	55°	59°
	5040					●	●	●	●					4.0	5.0	9.1	13.9	15.8	18.2	20	22	24	29	41	54	46°	50°	54°	59°
	5050					●	●	●	●					4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	46°	50°	54°	59°
	5060					●	●	●	●					4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	46°	50°	54°	59°
	5070					●	●	●	●					5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	46°	50°	54°	59°
	50100					●	●	●	●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	44°	50°	52°	54°
	50120					●	●	●	●					6.7	15.0	27	39	47	55	61	67	72	86	122	162	44°	50°	53°	55°
	50150					●	●	●	●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	45°	50°	52°	55°
	50200					●	●	●	●					8.7	25	46	64	79	91	102	112	121	144	205	270	46°	50°	52°	55°
	50400									●				12.7	50	91	129	158	182	205	225	240	290	410	540	46°	50°	52°	55°
	50500										●	●		13.1	62	114	161	197	230	255	280	300	360	510	680	49°	50°	51°	54°
	50580										●			13.9	72	132	187	230	265	295	325	350	420	600	780	49°	50°	51°	53°
	50750											●		15.9	94	171	240	295	340	385	420	455	540	770	1010	49°	50°	51°	53°
	501000											●		18.3	125	230	325	395	455	510	560	610	720	1020	1350	49°	50°	51°	53°
	501500												●	22.6	187	340	485	600	690	770	840	910	1080	1530	2020	49°	50°	51°	52°
	502000												●	26.2	250	460	650	790	910	1020	1120	1210	1440	2040	2700	49°	50°	51°	52°
40°	4001	●	●	●	●									0.66			0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	26°	40°	52°	59°
	40015	●	●	●	●									0.79			0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	27°	40°	52°	59°
	4002	●	●	●	●									0.91		0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	29°	40°	51°	58°
	4003	●	●	●	●									1.1		0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	30°	40°	50°	57°
	4004	●	●	●	●									1.3		0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	30°	40°	50°	56°
	4005	●	●	●	●									1.4		1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	31°	40°	49°	55°
	4006	●	●	●	●									1.6		1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	31°	40°	49°	55°
	4008	●	●	●	●									1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	31°	40°	47°	53°
	4010					●	●	●						2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	32°	40°	45°	48°
	4015					●	●		●					2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	32°	40°	45°	48°
	4020					●	●	●	●					2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	32°	40°	45°	48°
	4030					●	●	●						3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	33°	40°	45°	48°
	4040					●	●	●						4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	34°	40°	45°	48°
	4050						●	●						4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	35°	40°	45°	48°
	4060						●	●	●					4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	35°	40°	45°	48°
	4070						●	●	●					5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	35°	40°	45°	48°
	40100							●	●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	34°	40°	43°	46°
	40150							●	●					7.5	18.7	34	48	59	68	76	84	90	108	153	205		40°	43°	44°
	40200								●					8.7	25	46	64	79	91	102	112	121	144	205	270	36°	40°	42°	44°
25°	2501	●	●	●	●									0.66			0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	14°	25°	34°	42°
	2502	●	●	●	●									0.91		0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	15°	25°	33°	40°
	2503	●	●	●	●									1.1		0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	15°	25°	33°	40°
	2504	●	●	●	●									1.3		0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	16°	25°	32°	39°
	2505	●	●	●	●									1.4		1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	16°	25°	32°	39°
	2506	●	●	●	●									1.6		1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	17°	25°	31°	38°
	2508	●	●	●	●									1.8		1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	17°	25°	31°	38°
	2510	●	●	●	●	●	●	●						2.0		2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	18°	25°	31°	37°
	2515					●	●		●					2.4		3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	18°	25°	31°	37°
	2520					●	●	●	●					2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	19°	25°	31°	37°
	2530					●	●	●						3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	20°	25°	30°	36°
	2540						●	●						4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	21°	25°	29°	35°
	2550						●	●	●					4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	21°	25°	29°	35°
	2560						●	●	●					4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	22°	25°	29°	35°
	2570						●	●	●					5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	22°	25°	29°	35°
	25100							●	●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	23°	25°	28°	32°
	25150							●	●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	24°	25°	28°	30°
	25200													8.7	25	46	64	79	91	102	112	121	144	205	270	24°	25°	26°	29°
	25500													13.1	62	114	161	197	230	255	280	300	360	510	680	24°	25°	26°	29°
	25750													15.9	94	171	240	295	340	385	420	455	540	770	1010	24°	25°	26°	28°
	251000													18.7	125	230	325	395	455	510	560	610	720	1020	1350	24°	25°	26°	28°
15°	1501	●	●	●	●									0.66			0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3		15°	24°	28°
	1502	●		●										0.91			0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	6°	15°	22°	27°
	1503	●	●	●	●									1.1			0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	6°	15°	22°	27°
	1504	●	●	●	●									1.3			1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	7°	15°	21°	26°
	1505	●	●	●	●									1.4			1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	7°	15°	21°	26°
	1506	●	●	●	●									1.6		1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	8°	15°	21°	26°
	1508	●	●	●	●									1.8		1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	9°	15°	20°	25°
	1510	●	●	●	●	●	●							2.0		2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	10°	15°	19°	24°
	1515					●	●	●						2.4		3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	10°	15°	19°	24°
	1520					●	●	●						2.8		4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	10°	15°	19°	23°
	1530					●	●	●						3.6		6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	10°	15°	19°	21°
	1540					●	●	●						4.0		9.1	12.9	15.8	18.2	20	22	24	29	41	54	10°	15°	18°	21°
	1550						●	●	●					4.4		11.4	16.1	19.7	23	25	28	30	36	51	68	11°	15°	18°	21°