

HEAVY DUTY CANTED SLOT DOUBLE ACTING TORQUE CHART

MODEL NUMBER	TORQUE OUTPUT IN-LBS												MOP*	MAWP**	SWEPT VOLUME CU. IN. ***	WEIGHT LBS
	40 PSI			60 PSI			80 PSI			100 PSI						
	START	MIN	END	START	MIN	END	START	MIN	END	START	MIN	END				
C11DA280	38,728	12,302	16,394	58,091	18,452	24,591	77,455	24,603	32,787	96,819	30,754	40,984	100	125	1058	525
C11DA335	55,436	17,609	25,850	83,155	26,414	38,776	110,873	35,218	51,701				80	90	1514	582
C11DA385	73,219	23,258	34,143	109,829	34,887	51,214							60	70	2000	639
C11DA435	93,472	29,691	43,587										40	55	2554	694
C13DA385	86,532	27,486	40,351	129,798	41,230	60,526	173,064	54,973	80,701	216,330	68,716	100,877	100	150	2364	1058
C13DA435	110,467	35,089	51,512	165,701	52,634	77,268	220,935	70,179	103,024	276,169	87,724	128,780	100	125	3018	1135
C13DA485	137,322	43,620	64,034	205,983	65,429	96,051	274,644	87,239	128,068				80	95	3752	1257
C13DA535	167,095	53,077	77,918	250,642	79,615	116,877							60	85	4565	1312
C13DA585	199,787	63,461	93,162	299,681	95,192	139,744							60	70	5458	1429
C13DA635	235,398	74,773	109,768										40	55	6431	1532
C16DA485	169,011	53,686	78,811	253,517	80,528	78,811	338,023	107,371	157,623	422,528	134,214	197,028	100	110	4617	1951
C16DA535	205,655	65,325	95,899	308,483	97,988	95,899	411,311	130,651	191,797				80	90	5618	2094
C16DA585	245,892	78,106	114,661	368,838	117,159	114,661							60	75	6718	2244
C16DA635	289,721	92,028	135,099	434,581	138,043	135,099							60	65	7915	2370
C16DA685	337,143	107,092	157,212										40	55	9211	2491
C20DA585	307,365	97,633	143,327	461,047	146,449	214,990	614,730	195,266	286,653				80	105	8397	2932
C20DA635	362,151	115,035	168,874	543,227	172,553	168,874	724,302	230,071	337,748				80	90	9894	3153
C20DA685	421,428	133,865	196,515	632,142	200,797	196,515							60	80	11513	3289
C20DA735	485,196	154,120	226,251	727,794	231,180	226,251							60	75	13255	3439
C20DA785	553,454	175,802	258,080										40	60	15120	3627
C20DA835	626,203	198,910	292,004										40	55	17108	3803
C27DA735	655,015	208,062	305,438	982,522	312,093	458,158	1,310,029	416,124	610,877	1,637,536	520,155	763,596	100	105	17895	
C27DA785	747,163	237,333	348,408	1,120,745	355,999	348,408	1,494,327	474,665	696,816				80	95	20412	
C27DA835	845,375	268,529	394,205	1,268,062	402,793	394,205	1,690,749	537,058	788,410				80	85	23095	
C27DA885	949,648	301,651	538,183	1,424,473	452,476	442,829							60	75	25944	
C27DA935	1,059,985	336,699	336,699	1,589,977	505,048	494,279							60	65	28958	
C27DA985	1,176,383	373,672	373,672	1,764,575	560,508	548,557							60	60	32138	
C27DA1020	1,261,469	400,699	588,233										40	55	34463	

\* Maximum operating pressure (MOP) is the pressure required to produce the maximum rated torque of the actuator

\*\* Maximum Allowable Working Pressure (MAWP) is the maximum static pressure that may be applied to a fully stroked actuator against the travels stops.

\*\*\* Swept Volume is the maximum volume including the cavity required for calculating consumption per 90 deg stroke.

HEAVY DUTY CANTED SLOT SPRING RETURN TORQUE CHART FAIL CLOCKWISE ONLY

MODEL	SPRING CODE		TORQUE OUTPUT IN-LBS								MOP*	MAWP**	SWEEP VOLUME CU. IN. ***	WEIGHT LBS
			SPRING	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI				
C11SC280	BA	START	11,944	24,018	33,700	43,382	53,064	62,746	72,428	82,110	100	150	1058	827
		MIN	6,714	6,317	9,749	13,182	16,614	20,047	23,480	26,912				
		END	14,709	6,373	10,952	15,532	20,111	24,690	29,269	33,849				
	BB	START	17,025		27,350	37,032	46,714	56,396	66,078	75,760	100	150	1058	838
		MIN	9,592		6,582	10,014	13,447	16,880	20,312	23,745				
		END	21,060		5,871	10,450	15,029	19,609	24,188	28,767				
	BC	START	22,511			30,266	39,948	49,629	59,311	68,993	100	150	1058	884
		MIN	12,678			6,608	10,040	13,473	16,906	20,338				
		END	27,826			4,964	9,544	14,123	18,702	23,281				
	BD	START	25,750				36,174	45,856	55,538	65,220	100	150	1058	884
		MIN	14,447				8,061	11,494	14,926	18,359				
		END	31,600				6,304	10,884	15,463	20,042				
BE	START	28,849				32,258	41,940	51,622	61,304	100	150	1058	983	
	MIN	16,213				6,123	9,556	12,988	16,421					
	END	35,515				3,206	7,785	12,364	16,943					
BF	START	34,492						45,404	55,085	100	150	1058	983	
	MIN	19,211						9,593	13,025					
	END	41,734						6,722	11,301					
C11SC335	BA	START	11,944	40,727	54,586	68,445	82,304	96,164	110,023		90	150	1514	895
		MIN	6,714	12,241	17,154	22,068	26,981	31,895	36,808					
		END	14,709	14,276	20,831	27,386	33,941	40,496	47,050					
	BB	START	17,025	34,377	48,236	62,095	75,954	89,813	103,672		90	150	1514	895
		MIN	9,592	9,073	13,987	18,900	23,814	28,727	33,641					
		END	21,060	9,194	15,749	22,304	28,859	35,414	41,969					
	BC	START	22,511	27,611	41,470	55,329	69,188	83,047	96,906	110,765	100	150	1514	941
		MIN	12,678	5,666	10,580	15,494	20,407	25,321	30,234	35,148				
		END	27,826	3,709	10,264	16,818	23,373	29,928	36,483	43,038				
	BD	START	25,750		37,696	51,555	65,414	79,273	93,132	106,991	100	150	1514	941
		MIN	14,447		8,601	13,514	18,428	23,341	28,255	33,169				
		END	31,600		7,024	13,579	20,134	26,689	33,244	39,799				
	BE	START	28,849		33,780	47,639	61,498	75,358	89,217	103,076	100	150	1514	1041
		MIN	16,213		6,663	11,576	16,490	21,404	26,317	31,231				
		END	35,515		3,925	10,480	17,035	23,590	30,145	36,700				
	BF	START	34,492			41,421	55,280	69,139	82,998	96,857	100	150	1514	1041
		MIN	19,211			8,181	13,094	18,008	22,921	27,835				
		END	41,734			4,838	11,393	17,948	24,503	31,058				
BG	START	44,810					55,231	69,090	82,949	100	150	1514	1056	
	MIN	25,295					11,428	16,342	21,255					
	END	55,642					7,630	14,185	20,740					
BH	START	57,080							67,550	100	150	1514	1074	
	MIN	32,261							13,597					
	END	71,041							8,469					
C11SC385	BA	START	11,944		76,815	95,120					60	125	2000	999
		MIN	6,714	18,545	25,035	31,525								
		END	14,709	22,687	31,344	40,002								
	BB	START	17,025	52,160	70,465	88,770	107,075				70	125	2000	999
		MIN	9,592	15,378	21,868	28,357	34,847							
		END	21,060	17,605	26,263	34,921	43,578							
	BC	START	22,511	45,394	63,699	82,003	100,308				70	125	2000	999
		MIN	12,678	11,971	18,461	24,951	31,440							
		END	27,826	12,119	20,777	29,435	38,092							
	BD	START	25,750	41,620	59,925	78,230	96,535				70	125	2000	999
		MIN	14,447	9,992	16,482	22,971	29,461							
		END	31,600	8,880	17,538	26,195	34,853							
BE	START	28,849	37,704	56,009	74,314	92,619	110,924			80	125	2000	1098	
	MIN	16,213	8,054	14,544	21,034	27,523	34,013							
	END	35,515	5,781	14,439	23,097	31,754	40,412							

	BF	START	34,492		49,791	68,096	86,400	104,705			80	125	2000	1098	
		MIN	19,211		11,148	17,638	24,128	30,617							
		END	41,734		8,797	17,454	26,112	34,770							
	BG	START	44,810			54,188	72,493	90,797	109,102		90	125	2000	1113	
		MIN	25,295			11,058	17,548	24,038	30,527						
		END	55,642			7,136	15,794	24,451	33,109						
	BH	START	57,080					75,398	93,703	112,008	100	125	2000	1131	
		MIN	32,261					16,380	22,869	29,359					
		END	71,041					12,181	20,839	29,497					
BJ	START	71,507							94,245	100	125	2000	1168		
	MIN	40,369							20,405						
	END	88,803							15,070						
C11SC435	BA	START	11,944	78,763	102,131						50	125	2554	1153	
		MIN	6,714	25,726	34,011										
		END	14,709	32,266	43,318										
	BB	START	17,025	72,413	95,781						50	125	2554	1153	
		MIN	9,592	22,558	30,843										
		END	21,060	27,184	38,237										
	BC	START	22,511	65,647	89,015	112,383					60	125	2554	1153	
		MIN	12,678	19,152	27,436	35,721									
		END	27,826	21,698	32,751	43,803									
	BD	START	25,750	61,873	85,241	108,609					60	125	2554	1153	
		MIN	14,447	17,172	25,457	33,742									
		END	31,600	18,459	29,512	40,564									
	BE	START	28,849	57,957	81,325	104,693					60	125	2554	1153	
		MIN	16,213	15,235	23,519	31,804									
		END	35,515	15,360	26,413	37,465									
	BF	START	34,492	51,739	75,107	98,475					60	125	2554	1153	
		MIN	19,211	11,839	20,124	28,409									
		END	41,734	9,718	20,770	31,823									
	BG	START	44,810		61,199	84,567	107,935				70	125	2554	1168	
		MIN	25,295		13,544	21,829	30,114								
		END	55,642		10,452	21,505	32,557								
	BH	START	57,080			69,168	92,536				70	125	2554	1186	
		MIN	32,261			14,171	22,455								
		END	71,041			9,235	20,287								
	BJ	START	71,507				98,142				80	125	2554	1224	
		MIN	40,369				21,786								
		END	88,803				16,912								

\* Maximum operating pressure (MOP) is the pressure required to produce the maximum rated torque of the actuator

\*\* Maximum Allowable Working Pressure (MAWP) is the maximum static pressure that may be applied to a fully stroked actuator against the travels stops.

\*\*\* Swept Volume is the maximum volume including the cavity required for calculating consumption per 90 deg stroke.

HEAVY DUTY CANTED SLOT SPRING RETURN TORQUE CHART FAIL CLOCKWISE ONLY

MODEL	SPRING CODE		TORQUE OUTPUT IN-LBS FAIL CLOCKWISE ONLY								MOP*	MAWP**	SWEPT VOLUME CU. IN. ***	WEIGHT LBS
			SPRING	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI				
C13SC385	CA	START	26,582	53,647	75,280	96,913	118,546	140,179	161,812	183,445	100	150	2364	1517
		MIN	14,977	14,158	21,827	29,497	37,167	44,836	52,506	60,176				
		END	32,885	14,345	24,577	34,809	45,041	55,272	65,504	75,736				
	CB	START	41,321		58,844	80,477	102,110	123,743	145,376	167,009	100	150	2364	1539
		MIN	22,855		12,929	20,599	28,269	35,938	43,608	51,278				
		END	49,322		9,838	20,070	30,302	40,533	50,765	60,997				
	CC	START	51,837			66,833	88,466	110,099	131,732	153,365	100	150	2364	1801
		MIN	28,930			13,971	21,640	29,310	36,980	44,649				
		END	62,965			9,554	19,786	30,017	40,249	50,481				
	CD	START	63,135				73,169	94,802	116,435	138,068	100	150	2364	1781
		MIN	35,608				14,425	22,095	29,765	37,434				
		END	78,262				8,487	18,719	28,951	39,183				
CE	START	77,554						99,447	121,080	100	150	2364	1819	
	MIN	43,531						20,927	28,597					
	END	95,250						14,531	24,763					
CF	START	92,165							102,461	100	150	2364	1832	
	MIN	51,891							19,437					
	END	113,869							10,153					
C13SC435	CA	START	26,582	77,582	105,199	132,816	160,433	188,050	215,667	243,284	100	130	3018	1616
		MIN	14,977	22,644	32,435	42,226	52,017	61,808	71,599	81,390				
		END	32,885	25,666	38,728	51,790	64,852	77,914	90,976	104,038				
	CB	START	41,321	61,146	88,763	116,380	143,996	171,613	199,230	226,847	100	130	3018	1616
		MIN	22,855	13,745	23,537	33,328	43,119	52,910	62,701	72,492				
		END	49,322	10,927	23,989	37,051	50,113	63,175	76,237	89,299				
	CC	START	51,837		75,120	102,736	130,353	157,970	185,587	213,204	100	130	3018	1878
		MIN	28,930		16,908	26,699	36,491	46,282	56,073	65,864				
		END	62,965		13,473	26,535	39,597	52,659	65,721	78,783				
	CD	START	63,135			87,439	115,056	142,672	170,289	197,906	100	130	3018	1858
		MIN	35,608			19,485	29,276	39,067	48,858	58,649				
		END	78,262			15,237	28,299	41,361	54,423	67,484				
	CE	START	77,554				98,068	125,684	153,301	180,918	100	130	3018	1896
		MIN	43,531				20,438	30,229	40,020	49,811				
		END	95,250				13,879	26,941	40,003	53,065				
	CF	START	92,165					107,066	134,683	162,300	100	130	3018	1909
		MIN	51,891					21,069	30,860	40,652				
		END	113,869					12,331	25,393	38,455				
CG	START	108,155							141,991	100	130	3018	1929	
	MIN	61,025							30,636					
	END	134,178							22,465					
C13SC485	CA	START	26,582	104,437	138,767	173,098	207,428	241,758	276,089		90	125	3752	2000
		MIN	14,977	32,164	44,336	56,507	68,678	80,850	93,021					
		END	32,885	38,367	54,605	70,842	87,079	103,316	119,554					
	CB	START	41,321		122,331	156,661	190,991	225,322	259,652	293,983	100	125	3752	2000
		MIN	22,855	23,266	35,438	47,609	59,780	71,952	84,123	96,294				
		END	49,322	23,628	39,865	56,103	72,340	88,577	104,814	121,052				
	CC	START	51,837	74,357	108,687	143,018	177,348	211,679	246,009	280,340	100	125	3752	2000
		MIN	28,930	16,638	28,809	40,981	53,152	65,323	77,495	89,666				
		END	62,965	13,112	29,350	45,587	61,824	78,061	94,299	110,536				
	CD	START	63,135		93,390	127,720	162,051	196,381	230,712	265,042	100	125	3752	1980
		MIN	35,608		21,594	33,766	45,937	58,108	70,280	82,451				
		END	78,262		18,051	34,289	50,526	66,763	83,000	99,238				
	CE	START	77,554			110,732	145,063	179,393	213,723	248,054	100	125	3752	2017
		MIN	43,531			24,928	37,099	49,271	61,442	73,613				
		END	95,250			19,869	36,106	52,344	68,581	84,818				
	CF	START	92,165				126,444	160,775	195,105	229,435	100	125	3752	2030
		MIN	51,891				27,939	40,111	52,282	64,453				
		END	113,869				21,496	37,733	53,971	70,208				
CG	START	108,155					140,466	174,796	209,127	100	125	3752	2050	
	MIN	61,025					30,096	42,267	54,438					
	END	134,178					21,743	37,980	54,218					

	CH	START	143,816							164,409	100	125		3752	2055		
		MIN	81,260							32,187							
		END	178,896							18,557							
C13SC535	CA	START	26,582	134,210	175,984	217,757	259,531	301,305				80	95		4565	2035	
		MIN	14,977	42,720	57,530	72,341	87,151	101,961									
		END	32,885	52,449	72,207	91,965	111,722	131,480									
	CB	START	41,321	117,773	159,547	201,321	243,095	284,868				80	95		4565	2035	
		MIN	22,855	33,822	48,632	63,442	78,253	93,063									
		END	49,322	37,710	57,468	77,225	96,983	116,741									
	CC	START	51,837	104,130	145,904	187,678	229,451	271,225				80	95		4565	2035	
		MIN	28,930	27,194	42,004	56,814	71,624	86,435									
		END	62,965	27,194	46,952	66,710	86,467	106,225									
	CD	START	63,135	88,833	130,606	172,380	214,154	255,928	297,701			90	105		4565	2035	
		MIN	35,608	19,979	34,789	49,599	64,410	79,220	94,030								
		END	78,262	15,896	35,654	55,411	75,169	94,927	114,684								
CE	START	77,554		113,618	155,392	197,166	238,940	280,713			90	105		4565	2072		
	MIN	43,531		25,951	40,762	55,572	70,382	85,192									
	END	95,250		21,234	40,992	60,750	80,507	100,265									
CF	START	92,165			136,774	178,547	220,321	262,095			90	105		4565	2086		
	MIN	51,891			31,602	46,412	61,222	76,032									
	END	113,869			26,382	46,139	65,897	85,655									
CG	START	108,155				158,238	200,012	241,786	283,560		100	115		4565	2105		
	MIN	61,025				36,397	51,207	66,017	80,828								
	END	134,178				30,149	49,907	69,665	89,422								
CH	START	143,816						197,068	238,842		100	115		4565	2110		
	MIN	81,260						43,766	58,576								
	END	178,896						34,004	53,761								
C13SC585	CA	START	26,582	166,902	216,849	266,796						60	75		5458	2189	
		MIN	14,977	54,311	72,018	89,726											
		END	32,885	67,911	91,535	115,158											
	CB	START	41,321	150,466	200,412	250,359	300,306					70	85		5458	2189	
		MIN	22,855	45,412	63,120	80,828	98,536										
		END	49,322	53,172	76,796	100,419	124,042										
	CC	START	51,837	136,822	186,769	236,716	286,663					70	85		5458	2189	
		MIN	28,930	38,784	56,492	74,200	91,908										
		END	62,965	42,657	66,280	89,903	113,527										
	CD	START	63,135	121,525	171,472	221,418	271,365					70	85		5458	2189	
		MIN	35,608	31,569	49,277	66,985	84,693										
		END	78,262	31,358	54,982	78,605	102,228										
	CE	START	77,554	104,537	154,484	204,430	254,377					70	85		5458	2189	
		MIN	43,531	22,731	40,439	58,147	75,855										
		END	95,250	16,939	40,562	64,185	87,809										
	CF	START	92,165		135,865	185,812	235,759	285,705				80	95		5458	2202	
		MIN	51,891		31,279	48,987	66,695	84,403									
		END	113,869		25,952	49,575	73,199	96,822									
	CG	START	108,155			165,503	215,450	265,396				80	95		5458	2222	
		MIN	61,025			38,972	56,680	74,388									
		END	134,178			33,585	57,208	80,832									
	CH	START	143,816				170,732	220,679	270,625			90	105		5458	2227	
		MIN	81,260				34,429	52,136	69,844								
		END	178,896				21,547	45,171	68,794								
CJ	START	180,063						225,895	275,842		100	115		5458	2255		
	MIN	101,655						47,333	65,040								
	END	223,626						32,547	56,170								
C13SC635	CC	START	51,837	172,433	231,283	290,133						60	75		6431	2306	
		MIN	28,930	51,410	72,274	93,138											
		END	62,965	59,500	87,334	115,168											
	CD	START	63,135	157,136	215,985	274,835						60	75		6431	2306	
		MIN	35,608	44,195	65,059	85,923											
		END	78,262	48,201	76,035	103,869											
	CE	START	77,554	140,148	198,997	257,847						60	75		6431	2306	
		MIN	43,531	35,357	56,221	77,085											
		END	95,250	33,782	61,616	89,450											
	CF	START	92,165	121,529	180,379	239,228	298,078					70	85		6431	2306	
		MIN	51,891	25,572	47,015	68,457	89,900										
		END	113,869	19,172	47,006	74,840	102,674										

CG	START	108,155		160,070	218,920	277,769				70	85	6431	2326
	MIN	61,025		37,046	57,910	78,775							
	END	134,178		31,015	58,849	86,684							
CH	START	143,816			174,202	233,051	291,901			80	95	6431	2330
	MIN	81,260			35,659	56,523	77,387						
	END	178,896			23,189	51,023	78,857						
CJ	START	180,063					247,171			80	95	6431	2359
	MIN	101,655					54,875						
	END	223,626					42,610						

\* Maximum operating pressure (MOP) is the pressure required to produce the maximum rated torque of the actuator

\*\* Maximum Allowable Working Pressure (MAWP) is the maximum static pressure that may be applied to a fully stroked actuator against the travels stops.

\*\*\* Swept Volume is the maximum volume including the cavity required for calculating consumption per 90 deg stroke.

HEAVY DUTY CANTED SLOT SPRING RETURN TORQUE CHART FAIL CLOCKWISE ONLY

MODEL	SPRING CODE		TORQUE OUTPUT IN-LBS FAIL CLOCKWISE ONLY								MOP*	MAWP**	SWEEP VOLUME CU. IN. ***	WEIGHT LBS	
			SPRING	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI					
C16SC485	DA	START	52,353	104,796	147,049	189,302	231,555	273,807	316,060	358,313	100	125	4617	2725	
		MIN	29,365	27,463	42,443	57,423	72,403	87,383	102,364	117,344					
		END	64,215	27,585	47,569	67,553	87,538	107,522	127,506	147,491					
	DB	START	78,089		114,941	157,194	199,447	241,700	283,953	326,205	100	125	4617	2738	
		MIN	43,930		26,408	41,388	56,368	71,349	86,329	101,309					
		END	96,323		21,832	41,817	61,801	81,785	101,770	121,754					
	DC	START	95,005			136,301	178,553	220,806	263,059	305,312	100	125	4617	2767	
		MIN	53,452			30,880	45,860	60,840	75,820	90,800					
		END	117,217			24,901	44,885	64,869	84,854	104,838					
	DD	START	114,203				155,624	197,876	240,129	282,382	100	125	4617	2780	
		MIN	64,074				34,048	49,028	64,008	78,988					
		END	140,146				25,687	45,672	65,656	85,640					
	DE	START	132,612					172,896	215,148	257,401	100	125	4617	2791	
		MIN	74,969					37,264	52,244	67,224					
		END	165,127					27,262	47,247	67,231					
	DF	START	154,629						188,117	230,369	100	125	4617	2800	
		MIN	87,325						38,590	53,570					
		END	192,159						25,230	45,214					
C16SC535	DA	START	52,353	141,440	192,854	244,268	295,682	347,095	398,509		90	105	5618	2869	
		MIN	29,365	40,455	58,683	76,911	95,139	113,367	131,595						
		END	64,215	44,916	69,233	93,551	117,868	142,185	166,502						
	DB	START	78,089	109,332	160,746	212,160	263,574	314,988	366,402	417,815	100	115	5618	2881	
		MIN	43,930	24,420	42,648	60,876	79,104	97,332	115,560	133,788					
		END	96,323	19,180	43,497	67,814	92,131	116,448	140,765	165,083					
	DC	START	95,005		139,853	191,266	242,680	294,094	345,508	396,922	100	115	5618	2910	
		MIN	53,452		32,139	50,367	68,595	86,823	105,051	123,279					
		END	117,217		26,581	50,898	75,215	99,532	123,850	148,167					
	DD	START	114,203			168,337	219,750	271,164	322,578	373,992	100	115	5618	2923	
		MIN	64,074			38,555	56,783	75,011	93,239	111,467					
		END	140,146			31,700	56,018	80,335	104,652	128,969					
	DE	START	132,612				194,770	246,184	297,597	349,011	100	115	5618	2934	
		MIN	74,969				45,019	63,247	81,475	99,703					
		END	165,127				37,608	61,925	86,243	110,560					
	DF	START	154,629					219,152	270,566	321,979	100	115	5618	2943	
		MIN	87,325					49,593	67,821	86,049					
		END	192,159					39,908	64,225	88,543					
	DG	START	206,033							257,912	100	115	5618	2956	
		MIN	116,399							54,032					
		END	256,227							37,139					
	C16SC585	DA	START	52,353	181,677	243,150	304,623	366,096	427,568			80	95	6718	
			MIN	29,365	54,720	76,514	98,309	120,103	141,897						
			END	64,215	63,947	93,022	122,097	151,171	180,246						
DB		START	78,089		211,042	272,515	333,988	395,461			80	95	6718		
		MIN	43,930	38,685	60,479	82,274	104,068	125,862							
		END	96,323	38,210	67,285	96,360	125,435	154,510							
DC		START	95,005	128,675	190,148	251,621	313,094	374,567			80	95	6718		
		MIN	53,452	28,176	49,971	71,765	93,559	115,354							
		END	117,217	21,294	50,369	79,444	108,519	137,594							
DD		START	114,203		167,218	228,691	290,164	351,637	413,110		90	105	6718		
		MIN	64,074		38,159	59,953	81,747	103,542	125,336						
		END	140,146		31,171	60,246	89,321	118,396	147,471						
DE		START	132,612			203,711	265,184	326,657	388,130		90	105	6718		
		MIN	74,969			48,189	69,983	91,778	113,572						
		END	165,127			41,837	70,912	99,987	129,061						
DF		START	154,629			176,679	238,152	299,625	361,098	422,571	100	115	6718		
		MIN	87,325			34,535	56,330	78,124	99,918	121,713					
		END	192,159			19,820	48,895	77,970	107,044	136,119					
DG		START	206,033					235,557	297,030	358,503	100	115	6718		
		MIN	116,399					46,106	67,901	89,695					
		END	256,227					26,566	55,641	84,716					
DH		START	259,627							294,450	100	115	6718		
		MIN	146,062							56,714					
		END	248,486							31,121					
C16SC635	DA	START	52,353	225,506	297,936	370,366					60	75	7915		
		MIN	29,365	70,259	95,938	121,617									
		END	64,215	84,677	118,934	153,191									
	DB	START	78,089	193,398	265,828	338,258	410,689				70	85	7915		
		MIN	43,930	54,224	79,903	105,582	131,261								
		END	96,323	58,940	93,197	127,455	161,712								

	DC	START	95,005	172,504	244,935	317,365	389,795					70	85	7915		
		MIN	53,452	43,715	69,394	95,073	120,752									
		END	117,217	42,024	76,281	110,539	144,796									
	DD	START	114,203	149,575	222,005	294,435	366,865						70	85	7915	
		MIN	64,074	31,903	57,582	83,261	108,940									
		END	140,146	22,826	57,084	91,341	125,598									
	DE	START	132,612		197,024	269,454	341,884	414,315					80	95	7915	
		MIN	74,969		45,818	71,498	97,177	122,856								
		END	165,127		38,674	72,932	107,189	141,446								
	DF	START	154,629		169,992	242,422	314,853	387,283					80	95	7915	
		MIN	87,325		32,165	57,844	83,523	109,202								
		END	192,159		16,657	50,915	85,172	119,429								
	DG	START	206,033				250,785	323,215	395,645				90	105	7915	
		MIN	116,399				51,505	77,184	102,863							
		END	256,227				33,768	68,026	102,283							
	DH	START	259,627						331,592	404,023			100	115	7915	
		MIN	146,062						69,882	95,561						
		END	248,486						48,688	82,946						
C16SC685	DA	START	52,353	272,927	357,213								50	65	9211	
		MIN	29,365	87,071	116,954											
		END	64,215	107,106	146,970											
	DB	START	78,089	240,820	325,105	409,391								60	75	9211
		MIN	43,930	71,036	100,919	130,801										
		END	96,323	81,369	121,234	161,098										
	DC	START	95,005	219,926	304,212	388,497								60	75	9211
		MIN	53,452	-9,053	12,741	34,535										
		END	117,217	-38,330	-9,255	19,820										
	DD	START	114,203	196,996	281,282	365,568								60	75	9211
		MIN	64,074	48,716	78,598	108,480										
		END	140,146	45,255	85,120	124,985										
	DE	START	132,612	172,015	256,301	340,587	424,872							70	85	9211
		MIN	74,969	36,952	66,834	96,716	126,599									
		END	165,127	26,846	66,711	106,575	146,440									
	DF	START	154,629		229,269	313,555	397,841							70	85	9211
		MIN	87,325		53,180	83,063	112,945									
		END	192,159		44,694	84,558	124,423									
	DG	START	206,033			249,487	333,773	418,058						80	95	9211
		MIN	116,399			51,045	80,927	110,809								
		END	256,227			33,155	73,019	112,884								
	DH	START	259,627				269,720	354,005						80	95	9211
		MIN	146,062				47,946	77,828								
		END	248,486				19,425	59,289								



HEAVY DUTY CANTED SLOT SPRING RETURN TORQUE CHART FAIL CLOCKWISE ONLY

MODEL	SPRING CODE		TORQUE OUTPUT IN-LBS FAIL CLOCKWISE ONLY								MOP*	MAWP**	SWEPT VOLUME CU. IN. ***	WEIGHT LBS
			SPRING	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI				
C20SC585	EA	START	95,077	190,576	267,417	344,259	421,100	497,941	574,782	651,624	100	125	8397	3792
		MIN	53,370	50,001	77,244	104,487	131,730	158,973	186,216	213,459				
		END	116,789	50,297	86,640	122,984	159,327	195,671	232,015	268,358				
	EB	START	141,929		209,023	285,864	362,706	439,547	516,388	593,229	100	125	8397	3814
		MIN	79,870		48,062	75,305	102,548	129,790	157,033	184,276				
		END	175,183		39,789	76,132	112,476	148,819	185,163	221,506				
	EC	START	167,688			254,638	331,479	408,321	485,162	562,003	100	125	8397	3948
		MIN	94,231			59,388	86,631	113,874	141,117	168,360				
		END	206,409			50,373	86,716	123,060	159,404	195,747				
	ED	START	193,286			220,848	297,690	374,531	451,372	528,213	100	125	8397	4068
		MIN	109,156			43,169	70,412	97,655	124,898	152,141				
		END	240,199			24,775	61,118	97,462	133,805	170,149				
	EE	START	222,158				261,336	338,177	415,019	491,860	100	125	8397	4060
		MIN	125,574				52,375	79,618	106,861	134,104				
		END	276,552				32,247	68,591	104,934	141,278				
EF	START	253,607					299,279	376,120	452,961	100	125	8397	4266	
	MIN	143,291					60,073	87,316	114,559					
	END	315,451					37,142	73,485	109,829					
EG	START	286,964						334,639	411,480	100	125	8397	4431	
	MIN	162,136						66,553	93,795					
	END	356,932						40,128	76,472					
C20SC635	EA	START	95,077	245,363	335,900	426,438	516,976	607,514	698,052		90	105	9894	4034
		MIN	53,370	69,425	101,524	133,623	165,721	197,820	229,919					
		END	116,789	76,209	119,031	161,852	204,674	247,496	290,317					
	EB	START	141,929	186,968	277,506	368,044	458,582	549,119	639,657	730,195	100	115	9894	4034
		MIN	79,870	40,242	72,341	104,440	136,539	168,638	200,737	232,836				
		END	175,183	29,357	72,179	115,001	157,822	200,644	243,465	286,287				
	EC	START	167,688		246,280	336,818	427,356	517,893	608,431	698,969	100	115	9894	4169
		MIN	94,231		56,425	88,524	120,623	152,722	184,821	216,919				
		END	206,409		46,420	89,241	132,063	174,885	217,706	260,528				
	ED	START	193,286		212,490	303,028	393,566	484,104	574,641	665,179	100	115	9894	4288
		MIN	109,156		40,206	72,305	104,403	136,502	168,601	200,700				
		END	240,199		20,822	63,643	106,465	149,286	192,108	234,930				
	EE	START	222,158			266,674	357,212	447,750	538,288	628,826	100	115	9894	4310
		MIN	125,574			54,268	86,366	118,465	150,564	182,663				
		END	276,552			34,772	77,594	120,415	163,237	206,058				
	EF	START	253,607				318,313	408,851	499,389	589,927	100	115	9894	4486
		MIN	143,291				66,821	98,920	131,019	163,118				
		END	315,451				46,145	88,966	131,788	174,609				
EG	START	286,964					367,370	457,908	548,446	100	115	9894	4652	
	MIN	162,136					78,157	110,256	142,355					
	END	356,932					55,609	98,431	141,252					
EH	START	383,071							429,481	100	115	9894	4729	
	MIN	216,300							82,613					
	END	475,897							45,146					
C20SC685	EA	START	95,077	304,640	409,997	515,354	620,711	726,068			80	95	11513	4306
		MIN	53,370	90,441	127,793	165,146	202,499	239,852						
		END	116,789	104,245	154,076	203,907	253,737	303,568						
	EB	START	141,929	246,245	351,602	456,959	562,316	667,674			80	95	11513	4306
		MIN	79,870	61,258	98,611	135,964	173,317	210,669						
		END	175,183	57,394	107,224	157,055	206,886	256,716						
	EC	START	167,688	215,019	320,376	425,733	531,090	636,447			80	95	11513	4306
		MIN	94,231	45,342	82,695	120,048	157,400	194,753						
		END	206,409	31,634	81,465	131,296	181,126	230,957						
	ED	START	193,286		286,586	391,944	497,301	602,658	708,015		90	105	11513	4425
		MIN	109,156		66,475	103,828	141,181	178,534	215,887					
		END	240,199		55,867	105,698	155,528	205,359	255,190					
EE	START	222,158		250,233	355,590	460,947	566,304	671,661		90	105	11513	4447	
	MIN	125,574		48,439	85,791	123,144	160,497	197,850						
	END	276,552		26,996	76,826	126,657	176,488	226,318						

	EF	START	253,607			316,691	422,048	527,405	632,762	738,119	100	115	11513	4623
		MIN	143,291			66,246	103,599	140,952	178,305	215,658				
		END	315,451			45,377	95,208	145,039	194,869	244,700				
	EG	START	286,964				380,567	485,924	591,281	696,638	100	115	11513	4788
		MIN	162,136				82,836	120,189	157,541	194,894				
		END	356,932				61,851	111,682	161,512	211,343				
	EH	START	383,071						472,316	577,673	100	115	11513	4866
		MIN	216,300						97,799	135,152				
		END	475,897						65,405	115,236				
C20SC735	EA	START	95,077	368,407	489,706	611,005	732,304				70	85	13255	4575
		MIN	53,370	113,049	156,053	199,058	242,063							
		END	116,789	134,406	191,776	249,147	306,518							
	EB	START	141,929	310,013	431,312	552,611	673,910				70	85	13255	4575
		MIN	79,870	83,866	126,871	169,876	212,880							
		END	175,183	87,554	144,924	202,295	259,666							
	EC	START	167,688	278,787	400,086	521,385	642,684				70	85	13255	4575
		MIN	94,231	67,950	110,955	153,960	196,964							
		END	206,409	61,794	119,165	176,536	233,907							
	ED	START	193,286	244,997	366,296	487,595	608,894	730,193			80	95	13255	4575
		MIN	109,156	51,731	94,735	137,740	180,745	223,750						
		END	240,199	36,196	93,567	150,938	208,309	265,679						
	EE	START	222,158		329,943	451,242	572,541	693,840			80	95	13255	4597
		MIN	125,574		76,698	119,703	162,708	205,713						
		END	276,552		64,696	122,067	179,437	236,808						
	EF	START	253,607		291,044	412,343	533,642	654,941			80	95	13255	4773
		MIN	143,291		57,153	100,158	143,163	186,168						
		END	315,451		33,247	90,618	147,988	205,359						
	EG	START	286,964			370,862	492,161	613,460	734,759		90	105	13255	4938
		MIN	162,136			79,395	122,400	165,404	208,409					
		END	356,932			57,260	114,631	172,002	229,373					
	EH	START	383,071					494,495	615,794	737,093	100	115	13255	5016
		MIN	216,300					105,662	148,667	191,672				
		END	475,897					75,895	133,266	190,637				
	EJ	START	480,560							618,109	100	115	13255	5126
		MIN	270,842							131,318				
		END	594,881							93,147				
C20SC785	EA	START	95,077	436,666	575,029	713,393					60	75	15120	4784
		MIN	53,370	137,249	186,303	235,358								
		END	116,789	166,690	232,131	297,573								
	EB	START	141,929	378,271	516,635	654,999					60	75	15120	4784
		MIN	79,870	108,066	157,121	206,176								
		END	175,183	119,838	185,280	250,721								
	EC	START	167,688	347,045	485,409	623,773					60	75	15120	4784
		MIN	94,231	92,150	141,205	190,260								
		END	206,409	94,079	159,520	224,962								
	ED	START	193,286	313,256	451,619	589,983	728,346				70	85	15120	4784
		MIN	109,156	75,931	124,985	174,040	223,095							
		END	240,199	68,481	133,922	199,364	264,806							
	EE	START	222,158	276,902	415,266	553,629	691,993				70	85	15120	4784
		MIN	125,574	57,894	106,948	156,003	205,058							
		END	276,552	39,609	105,051	170,493	235,934							
	EF	START	253,607		376,367	514,730	653,094				70	85	15120	4960
		MIN	143,291		87,403	136,458	185,513							
		END	315,451		73,602	139,044	204,486							
	EG	START	286,964		334,886	473,249	611,613				70	85	15120	5126
		MIN	162,136		66,640	115,695	164,750							
		END	356,932		40,245	105,687	171,128							
	EH	START	383,071				492,648	631,011			80	95	15120	5203
		MIN	216,300				105,008	154,062						
		END	475,897				75,022	140,463						
	EJ	START	54,009						650,392		90	105	15120	5313
		MIN	480,560						142,763					
		END	298,730						108,416					

C20SC835	EA	START	95,077	509,415	665,966					50	65	17108	5137	
		MIN	53,370	163,041	218,544									
		END	116,789	201,098	275,142									
		EB	START	141,929	451,020	607,571					50	65	17108	5137
			MIN	79,870	133,858	189,361								
			END	175,183	154,246	228,290								
		EC	START	167,688	419,794	576,345	732,896				60	75	17108	5137
			MIN	94,231	117,942	173,445	228,948							
			END	206,409	128,487	202,530	276,574							
		ED	START	193,286	386,005	542,556	699,106				60	75	17108	5137
			MIN	109,156	101,723	157,225	212,728							
			END	240,199	102,889	176,932	250,976							
		EE	START	222,158	349,651	506,202	662,753				60	75	17108	5137
			MIN	125,574	83,686	139,189	194,691							
			END	276,552	74,017	148,061	222,105							
		EF	START	253,607	310,752	467,303	623,854				60	75	17108	5137
			MIN	143,291	66,640	121,340	176,040							
			END	315,451	42,568	116,612	190,656							
		EG	START	286,964		425,822	582,373	738,924			70	85	17108	5302
			MIN	162,136		98,880	154,383	209,886						
			END	356,932		83,255	157,299	231,343						
	EH	START	383,071			463,408	619,959			70	85	17108	5379	
		MIN	216,300			94,641	150,144							
		END	475,897			61,192	135,236							
	EJ	START	480,560				657,526			80	95	17108	5490	
		MIN	270,842				145,292							
		END	594,881				111,790							

\* Maximum operating pressure (MOP) is the pressure required to produce the maximum rated torque of the actuator

\*\* Maximum Allowable Working Pressure (MAWP) is the maximum static pressure that may be applied to a fully stroked actuator against the travels stops.

\*\*\* Swept Volume is the maximum volume including the cavity required for calculating consumption per 90 deg stroke.

HEAVY DUTY CANTED SLOT SPRING RETURN TORQUE CHART FAIL CLOCKWISE ONLY

MODEL	SPRING CODE		TORQUE OUTPUT IN-LBS FAIL CLOCKWISE ONLY								MOP*	MAWP**	SWEPT VOLUME CU. IN. ***	WEIGHT LBS
			SPRING	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI				
C27SC735	FA	START	202,848	406,117	569,871	733,625	897,378	1,061,132	1,224,886	1,388,639	100	110	17895	CF
		MIN	113,801	106,452	164,508	222,565	280,621	338,678	396,734	454,790				
		END	248,897	106,954	184,405	261,855	339,306	416,756	494,207	571,657				
	FB	START	301,768		445,423	609,176	772,930	936,683	1,100,437	1,264,191	100	110	17895	CF
		MIN	170,026		102,725	160,782	218,838	276,894	334,951	393,007				
		END	373,346		85,485	162,935	240,386	317,836	395,287	472,737				
	FC	START	405,695			484,728	648,481	812,235	975,989	1,139,742	100	110	17895	CF
		MIN	227,602			96,791	154,847	212,904	270,960	329,017				
		END	497,794			59,008	136,458	213,909	291,359	368,810				
	FD	START	499,608					687,786	851,540	1,015,294	100	110	17895	CF
		MIN	282,474					153,328	211,385	269,441				
		END	622,243					119,996	197,446	274,897				
	FE	START	230,673	371,109	534,862	698,616	862,369	1,026,123	1,189,877	1,353,630	100	110	17895	CF
		MIN	129,617	89,073	147,129	205,185	263,242	321,298	379,355	437,411				
		END	283,906	79,129	156,580	234,030	311,481	388,931	466,382	543,832				
	FF	START	346,635		392,909	556,663	720,416	884,170	1,047,924	1,211,677	100	110	17895	CF
		MIN	194,595		75,276	133,333	191,389	249,446	307,502	365,559				
		END	425,859		40,618	118,068	195,519	272,969	350,420	427,870				
	FG	START	456,349				578,438	742,192	905,946	1,069,699	100	110	17895	CF
		MIN	257,891				122,288	180,344	238,400	296,457				
		END	567,837				85,804	163,254	240,705	318,155				
	FH	START	571,060						763,993	927,746	100	110	17895	CF
		MIN	322,530						167,100	225,156				
		END	709,790						125,995	203,445				
	FJ	START	259,593	333,784	497,538	661,291	825,045	988,798	1,152,552	1,316,306	100	110	17895	CF
		MIN	146,278	70,872	128,929	186,985	245,042	303,098	361,155	419,211				
		END	321,231	50,209	127,660	205,110	282,561	360,011	437,462	514,912				
	FK	START	390,647			500,663	664,417	828,171	991,924	1,155,678	100	110	17895	CF
		MIN	219,760			105,752	163,809	221,865	279,921	337,978				
		END	481,858			74,056	151,506	228,957	306,407	383,858				
	FL	START	521,689					667,568	831,321	995,075	100	110	17895	CF
		MIN	293,232					140,641	198,697	256,754				
		END	642,461					97,915	175,365	252,816				
	FM	START	650,240							834,447	100	110	17895	CF
		MIN	366,037							176,624				
		END	803,089							124,265				
	FN	START	293,352		457,922	621,676	785,429	949,183	1,112,937	1,276,690	100	110	17895	CF
		MIN	164,789		108,261	166,317	224,373	282,430	340,486	398,543				
		END	360,846		93,900	171,351	248,801	326,252	403,702	481,153				
	FO	START	442,543				604,982	768,735	932,489	1,096,242	100	110	17895	CF
		MIN	247,869				132,250	190,306	248,363	306,419				
		END	541,294				99,610	177,060	254,511	331,961				
	FP	START	581,708						752,066	915,819	100	110	17895	CF
		MIN	328,234						160,664	218,720				
		END	721,717						115,346	192,796				
	FS	START	328,206		415,991	579,745	743,498	907,252	1,071,006	1,234,759	100	110	17895	CF
		MIN	184,145		86,771	144,828	202,884	260,941	318,997	377,054				
		END	402,777		59,046	136,496	213,947	291,397	368,848	446,298				
FT	START	491,058				542,110	705,864	869,617	1,033,371	100	110	17895	CF	
	MIN	275,879				101,681	159,737	217,794	275,850					
	END	604,166				51,096	128,546	205,996	283,447					
FU	START	656,425							831,957	100	110	17895	CF	
	MIN	368,298							173,534					
	END	805,579							118,080					
FW	START	364,156			535,498	699,252	863,005	1,026,759	1,190,513	100	110	17895	CF	
	MIN	204,345			122,518	180,574	238,631	296,687	354,743					
	END	447,024			100,547	177,997	255,448	332,898	410,349					
FX	START	539,969					639,506	803,260	967,013	100	110	17895	CF	
	MIN	304,823					128,484	186,541	244,597					
	END	670,523					79,635	157,085	234,536					
FAA	START	389,457			503,178	666,932	830,686	994,439	1,158,193	100	110	17895	CF	
	MIN	218,842			106,644	164,700	222,757	280,813	338,870					
	END	217,544			75,245	152,696	230,146	307,597	385,047					
FAB	START	577,933						754,755	918,509	100	110	17895	CF	
	MIN	326,577						162,721	220,777					
	END	719,028						119,122	196,572					

C27SC785	FA	START	202,848	498,266	685,057	871,848	1,058,639	1,245,430	1,432,221		90	100	20412	CF	
		MIN	113,801	139,122	205,346	271,570	337,794	404,018	470,242						
		END	248,897	150,538	238,884	327,231	415,577	503,923	592,270						
	FB	START	301,768	373,818	560,609	747,399	934,190	1,120,981	1,307,772	1,494,563	100	110	20412	CF	
		MIN	170,026	77,339	143,563	209,787	276,011	342,235	408,458	474,682					
		END	373,346	51,618	139,964	228,311	316,657	405,003	493,350	581,696					
	FC	START	405,695			622,951	809,742	996,533	1,183,323	1,370,114	100	110	20412	CF	
		MIN	227,602			145,796	212,020	278,244	344,468	410,692					
		END	497,794			124,383	212,729	301,076	389,422	477,769					
	FD	START	499,608				685,293	872,084	1,058,875	1,245,666	100	110	20412	CF	
		MIN	282,474				152,444	218,668	284,892	351,116					
		END	622,243				118,817	207,163	295,510	383,856					
	FE	START	230,673	463,257	650,048	836,839	1,023,630	1,210,421	1,397,212		90	100	20412	CF	
		MIN	129,617	121,743	187,967	254,190	320,414	386,638	452,862						
		END	283,906	122,713	211,059	299,406	387,752	476,098	564,445						
	FF	START	346,635		508,095	694,886	881,677	1,068,468	1,255,259	1,442,049	100	110	20412	CF	
		MIN	194,595		116,114	182,338	248,562	314,786	381,010	447,234					
		END	425,859		95,097	183,444	271,790	360,136	448,483	536,829					
	FG	START	456,349			552,908	739,699	926,490	1,113,281	1,300,072	100	110	20412	CF	
		MIN	257,891			113,236	179,460	245,684	311,908	378,132					
		END	567,837			73,729	162,075	250,422	338,768	427,114					
	FH	START	571,060					784,537	971,328	1,158,118	100	110	20412	CF	
		MIN	322,530					174,383	240,607	306,831					
		END	709,790					135,711	224,058	312,404					
	FJ	START	259,593	425,933	612,724	799,514	986,305	1,173,096	1,359,887	1,546,678	100	110	20412	CF	
		MIN	146,278	103,542	169,766	235,990	302,214	368,438	434,662	500,886					
		END	321,231	93,793	182,139	270,486	358,832	447,178	535,525	623,871					
	FK	START	390,647		452,096	638,887	825,678	1,012,468	1,199,259	1,386,050	100	110	20412	CF	
		MIN	219,760		88,533	154,757	220,981	287,205	353,429	419,653					
		END	481,858		51,085	139,431	227,778	316,124	404,471	492,817					
	FL	START	521,689				665,075	851,865	1,038,656	1,225,447	100	110	20412	CF	
		MIN	293,232				139,757	205,981	272,205	338,429					
		END	642,461				96,735	185,082	273,428	361,775					
	FM	START	650,240						878,029	1,064,819	100	110	20412	CF	
		MIN	366,037						192,076	258,300					
		END	803,089						144,878	233,224					
	FN	START	293,352	386,317	573,108	759,899	946,690	1,133,481	1,320,272	1,507,063	100	110	20412	CF	
		MIN	164,789	82,874	149,098	215,322	281,546	347,770	413,994	480,218					
		END	360,846	60,034	148,380	236,726	325,073	413,419	501,765	590,112					
	FO	START	442,543			579,451	766,242	953,033	1,139,824	1,326,615	100	110	20412	CF	
		MIN	247,869			123,199	189,423	255,646	321,870	388,094					
		END	541,294			87,535	175,881	264,228	352,574	440,920					
	FP	START	581,708					772,610	959,401	1,146,192	100	110	20412	CF	
		MIN	328,234					167,947	234,171	300,395					
		END	721,717					125,063	213,409	301,755					
	FR	START	734,644							965,769	100	110	20412	CF	
		MIN	412,319							206,625					
		END	902,140							148,820					
	FS	START	328,206		531,177	717,968	904,759	1,091,550	1,278,341	1,465,131	100	110	20412	CF	
		MIN	184,145		127,609	193,833	260,057	326,281	392,505	458,729					
		END	402,777		113,525	201,872	290,218	378,565	466,911	555,257					
	FT	START	491,058				703,370	890,161	1,076,952	1,263,743	100	110	20412	CF	
		MIN	275,879				158,853	225,077	291,301	357,525					
		END	604,166				127,367	215,713	304,060	392,406					
	FU	START	656,425						875,539	1,062,329	100	110	20412	CF	
		MIN	368,298						188,985	255,209					
		END	805,579						138,693	227,039					
	FW	START	364,156		486,930	673,721	860,512	1,047,303	1,234,094	1,420,885	100	110	20412	CF	
		MIN	204,345		105,299	171,523	237,747	303,971	370,195	436,418					
		END	447,024		77,576	165,922	254,268	342,615	430,961	519,308					
	FX	START	539,969				637,013	823,804	1,010,594	1,197,385	100	110	20412	CF	
		MIN	304,823				127,600	193,824	260,048	326,272					
		END	670,523				78,456	166,802	255,148	343,495					
	FY	START	723,293							973,886	100	110	20412	CF	
		MIN	407,329							212,814					
		END	894,023							160,171					
	FAA	START	389,457		454,611	641,402	828,192	1,014,983	1,201,774	1,388,565	100	110	20412	CF	
		MIN	218,842		89,425	155,649	221,873	288,097	354,321	420,545					
		END	217,544		52,274	140,621	228,967	317,314	405,660	494,006					
	FAB	START	577,933					775,299	962,090	1,148,881	100	110	20412	CF	
		MIN	326,577					170,004	236,228	302,452					
		END	719,028					128,838	217,185	305,531					

FAC	START	778,927								909,196	100	110	20412	CF
	MIN	437,693								178,841				
	END	958,712								104,537				
C27SC835	FA	START	202,848	596,478	807,821	1,019,165	1,230,509	1,441,852			80	90	23095	CF
		MIN	113,801	173,941	248,870	323,799	398,728	473,656						
		END	248,897	196,989	296,948	396,907	496,866	596,825						
FB	START	301,768	472,029	683,373	894,716	1,106,060	1,317,404	1,528,747		90	100	23095	CF	
	MIN	170,026	112,158	187,087	262,016	336,944	411,873	486,802						
	END	373,346	98,069	198,028	297,987	397,946	497,905	597,864						
FC	START	405,695		558,924	770,268	981,611	1,192,955	1,404,299		90	100	23095	CF	
	MIN	227,602		123,096	198,025	272,954	347,882	422,811						
	END	497,794		94,100	194,059	294,019	393,978	493,937						
FD	START	499,608			645,819	857,163	1,068,507	1,279,850	1,491,194	100	110	23095	CF	
	MIN	282,474			138,449	213,378	288,307	363,236	438,165					
	END	622,243			100,147	200,106	300,065	400,024	499,983					
FE	START	230,673	561,469	772,812	984,156	1,195,500	1,406,843			80	90	23095	CF	
	MIN	129,617	156,562	231,491	306,420	381,348	456,277							
	END	283,906	169,164	269,123	369,082	469,041	569,000							
FF	START	346,635	419,516	630,859	842,203	1,053,547	1,264,890	1,476,234		90	100	23095	CF	
	MIN	194,595	84,709	159,638	234,567	309,496	384,425	459,353						
	END	425,859	53,202	153,161	253,120	353,079	453,038	552,997						
FG	START	456,349			700,225	911,569	1,122,912	1,334,256	1,545,600	100	110	23095	CF	
	MIN	257,891			165,465	240,394	315,323	390,252	465,180					
	END	567,837			143,405	243,364	343,323	443,283	543,242					
FH	START	571,060				769,616	980,959	1,192,303	1,403,647	100	110	23095	CF	
	MIN	322,530				169,093	244,022	318,951	393,880					
	END	709,790				128,654	228,613	328,572	428,531					
FJ	START	259,593	524,144	735,488	946,831	1,158,175	1,369,519			80	90	23095	CF	
	MIN	146,278	138,362	213,290	288,219	363,148	438,077							
	END	321,231	140,244	240,203	340,162	440,121	540,080							
FK	START	390,647		574,860	786,204	997,547	1,208,891	1,420,235		90	100	23095	CF	
	MIN	219,760		132,057	206,986	281,915	356,844	431,773						
	END	481,858		109,149	209,108	309,067	409,026	508,985						
FL	START	521,689			625,601	836,944	1,048,288	1,259,632	1,470,975	100	110	23095	CF	
	MIN	293,232			125,762	200,691	275,620	350,548	425,477					
	END	642,461			78,065	178,025	277,984	377,943	477,902					
FM	START	650,240				676,317	887,660	1,099,004	1,310,348	100	110	23095	CF	
	MIN	366,037				120,562	195,490	270,419	345,348					
	END	803,089				49,474	149,433	249,392	349,351					
FN	START	293,352	484,529	695,872	907,216	1,118,560	1,329,903	1,541,247		90	100	23095	CF	
	MIN	164,789	117,694	192,622	267,551	342,480	417,409	492,337						
	END	360,846	106,484	206,444	306,403	406,362	506,321	606,280						
FO	START	442,543		515,424	726,768	938,112	1,149,455	1,360,799		90	100	23095	CF	
	MIN	247,869		100,499	175,428	250,356	325,285	400,214						
	END	541,294		57,252	157,211	257,170	357,129	457,088						
FP	START	581,708				757,689	969,032	1,180,376	1,391,720	100	110	23095	CF	
	MIN	328,234				162,657	237,586	312,515	387,443					
	END	721,717				118,005	217,965	317,924	417,883					
FR	START	734,644						999,953	1,211,297	100	110	23095	CF	
	MIN	412,319						218,744	293,673					
	END	902,140						164,988	264,947					
FS	START	328,206	442,598	653,941	865,285	1,076,629	1,287,972	1,499,316		90	100	23095	CF	
	MIN	184,145	96,204	171,133	246,062	320,991	395,919	470,848						
	END	402,777	71,630	171,589	271,548	371,507	471,466	571,425						
FT	START	491,058			663,896	875,240	1,086,584	1,297,927	1,509,271	100	110	23095	CF	
	MIN	275,879			144,858	219,787	294,716	369,645	444,574					
	END	604,166			108,697	208,656	308,615	408,574	508,533					
FU	START	656,425					885,170	1,096,514	1,307,858	100	110	23095	CF	
	MIN	368,298					192,400	267,329	342,257					
	END	805,579					143,248	243,207	343,166					
FV	START	814,269						895,125	1,106,469	100	110	23095	CF	
	MIN	458,680						168,333	243,262					
	END	1,006,968						85,363	185,322					
FW	START	364,156		609,695	821,038	1,032,382	1,243,726	1,455,069		90	100	23095	CF	
	MIN	204,345		148,823	223,752	298,681	373,609	448,538						
	END	447,024		135,639	235,598	335,558	435,517	535,476						
FX	START	539,969			597,539	808,882	1,020,226	1,231,570	1,442,913	100	110	23095	CF	
	MIN	304,823			113,605	188,534	263,463	338,392	413,320					
	END	670,523			59,786	159,745	259,704	359,663	459,622					
FY	START	723,293					796,727	1,008,070	1,219,414	100	110	23095	CF	
	MIN	407,329					150,005	224,934	299,862					
	END	894,023					76,380	176,339	276,298					
FZ	START	899,118							995,890	100	110	23095	CF	

	MIN	507,816								189,707				
	END	1,117,547								100,473				
FAA	START	389,457		577,375	788,718	1,000,062	1,211,406	1,422,749		90	100	23095	CF	
	MIN	218,842		132,949	207,878	282,807	357,735	432,664						
	END	217,544		110,338	210,297	310,256	410,215	510,175						
FAB	START	577,933				760,378	971,722	1,183,065	1,394,409	100	110	23095	CF	
	MIN	326,577				164,714	239,643	314,572	389,501					
	END	719,028				121,781	221,740	321,699	421,658					
FAC	START	778,927						943,381	1,154,725	100	110	23095	CF	
	MIN	437,693						190,960	265,889					
	END	958,712						120,705	220,665					
C27SC885	FA	START	202,848	700,751	938,163	1,175,575	1,412,988				70	80	25944	CF
		MIN	113,801	210,910	295,081	379,252	463,423							
		END	248,897	246,307	358,596	470,884	583,173							
	FB	START	301,768	576,303	813,715	1,051,127	1,288,539	1,525,951			80	90	25944	CF
		MIN	170,026	149,127	233,298	317,469	401,640	485,811						
		END	373,346	147,387	259,676	371,964	484,253	596,542						
	FC	START	405,695	451,854	689,266	926,678	1,164,090	1,401,503			80	90	25944	CF
		MIN	227,602	85,136	169,307	253,478	337,649	421,820						
		END	497,794	43,460	155,748	268,037	380,326	492,614						
	FD	START	499,608		564,818	802,230	1,039,642	1,277,054	1,514,466		90	100	25944	CF
		MIN	282,474		109,732	193,902	278,073	362,244	446,415					
		END	622,243		61,836	174,124	286,413	398,702	510,990					
	FE	START	230,673	665,742	903,154	1,140,567	1,377,979				70	80	25944	CF
		MIN	129,617	193,531	277,702	361,873	446,044							
		END	283,906	218,482	330,771	443,059	555,348							
	FF	START	346,635	523,789	761,201	998,613	1,236,026	1,473,438			80	90	25944	CF
		MIN	194,595	121,678	205,849	290,020	374,191	458,362						
		END	425,859	102,520	214,809	327,097	439,386	551,675						
	FG	START	456,349		619,223	856,636	1,094,048	1,331,460			80	90	25944	CF
		MIN	257,891		136,747	220,918	305,089	389,260						
		END	567,837		105,094	217,383	329,671	441,960						
	FH	START	571,060			714,683	952,095	1,189,507	1,426,919		90	100	25944	CF
		MIN	322,530			149,618	233,789	317,960	402,131					
		END	709,790			102,672	214,961	327,250	439,538					
	FJ	START	259,593	628,418	865,830	1,103,242	1,340,654				70	80	25944	CF
		MIN	146,278	175,330	259,501	343,672	427,843							
		END	321,231	189,562	301,851	414,139	526,428							
	FK	START	390,647	467,790	705,202	942,614	1,180,026	1,417,438			80	90	25944	CF
		MIN	219,760	94,097	178,268	262,439	346,610	430,781						
		END	481,858	58,508	170,797	283,085	395,374	507,663						
	FL	START	521,689			782,011	1,019,423	1,256,835	1,494,248		90	100	25944	CF
		MIN	293,232			181,215	265,386	349,557	433,728					
		END	642,461			152,043	264,332	376,620	488,909					
	FM	START	650,240				858,796	1,096,208	1,333,620		90	100	25944	CF
		MIN	366,037				185,257	269,428	353,599					
		END	803,089				135,781	248,070	360,358					
	FN	START	293,352	588,802	826,214	1,063,627	1,301,039	1,538,451			80	90	25944	CF
		MIN	164,789	154,662	238,833	323,004	407,175	491,346						
		END	360,846	155,803	268,091	380,380	492,669	604,957						
	FO	START	442,543	408,354	645,766	883,179	1,120,591	1,358,003			80	90	25944	CF
		MIN	247,869	62,539	146,710	230,881	315,052	399,223						
		END	541,294	6,611	118,900	231,189	343,477	455,766						
	FP	START	581,708			702,756	940,168	1,177,580	1,414,992		90	100	25944	CF
		MIN	328,234			143,181	227,352	311,523	395,694					
		END	721,717			92,024	204,312	316,601	428,890					
	FR	START	734,644					997,157	1,234,569	1,471,981	100	110	25944	CF
		MIN	412,319					217,753	301,924	386,095				
		END	902,140					163,666	275,954	388,243				
	FS	START	328,206	546,871	784,283	1,021,695	1,259,108	1,496,520			80	90	25944	CF
		MIN	184,145	133,173	217,344	301,515	385,686	469,857						
		END	402,777	120,948	233,237	345,526	457,814	570,103						
	FT	START	491,058		582,895	820,307	1,057,719	1,295,131	1,532,543		90	100	25944	CF
		MIN	275,879		116,141	200,311	284,482	368,653	452,824					
		END	604,166		70,386	182,674	294,963	407,252	519,540					
	FU	START	656,425				856,306	1,093,718	1,331,130		90	100	25944	CF
		MIN	368,298				182,166	266,337	350,508					
		END	805,579				129,596	241,885	354,173					
	FV	START	814,269					892,329	1,129,741	1,367,153	100	110	25944	CF
		MIN	458,680					167,342	251,512	335,683				
		END	1,006,968					84,041	196,329	308,618				
	FW	START	364,156	502,625	740,037	977,449	1,214,861	1,452,273			80	90	25944	CF
		MIN	204,345	110,863	195,034	279,205	363,376	447,547						



	END	447,024	84,999	197,287	309,576	421,865	534,153						
FX	START	539,969			753,949	991,361	1,228,773	1,466,186		90	100	25944	CF
	MIN	304,823			169,058	253,229	337,400	421,571					
	END	670,523			133,763	246,052	358,340	470,629					
FY	START	723,293					1,005,274	1,242,686	1,480,098	100	110	25944	CF
	MIN	407,329					223,942	308,113	392,284				
	END	894,023					175,016	287,305	399,594				
FZ	START	899,118						1,019,162	1,256,574	100	110	25944	CF
	MIN	507,816						197,958	282,129				
	END	1,117,547						111,480	223,769				
FAA	START	389,457	470,305	707,717	945,129	1,182,541	1,419,953			80	90	25944	CF
	MIN	218,842	94,989	179,160	263,331	347,502	431,673						
	END	217,544	59,697	171,986	284,275	396,563	508,852						
FAB	START	577,933			705,445	942,857	1,180,269	1,417,681		90	100	25944	CF
	MIN	326,577			145,239	229,410	313,581	397,752					
	END	719,028			95,799	208,088	320,377	432,665					
FAC	START	778,927					940,585	1,177,997	1,415,409	100	110	25944	CF
	MIN	437,693					189,969	274,140	358,311				
	END	958,712					119,383	231,672	343,960				
FAD	START	967,390							1,175,750	100	110	25944	CF
	MIN	545,419							240,228				
	END	1,198,371							155,497				
C27SC935 FA	START	202,848	811,087	1,076,083	1,341,080					60	70	28958	CF
	MIN	113,801	250,028	343,978	437,929								
	END	248,897	298,493	423,828	549,163								
FB	START	301,768	686,639	951,635	1,216,631	1,481,627				70	80	28958	CF
	MIN	170,026	188,245	282,195	376,146	470,096							
	END	373,346	199,573	324,908	450,243	575,578							
FC	START	405,695	562,190	827,186	1,092,182	1,357,179				70	80	28958	CF
	MIN	227,602	124,254	218,204	312,155	406,105							
	END	497,794	95,645	220,980	346,315	471,650							
FD	START	499,608		702,738	967,734	1,232,730	1,497,726			80	90	28958	CF
	MIN	282,474		158,629	252,580	346,530	440,480						
	END	622,243		127,068	252,403	377,738	503,073						
FE	START	230,673	776,078	1,041,075	1,306,071					60	70	28958	CF
	MIN	129,617	232,649	326,599	420,550								
	END	283,906	270,668	396,003	521,338								
FF	START	346,635	634,125	899,122	1,164,118	1,429,114				70	80	28958	CF
	MIN	194,595	160,796	254,747	348,697	442,648							
	END	425,859	154,706	280,041	405,376	530,711							
FG	START	456,349		757,144	1,022,140	1,287,136	1,552,132			80	90	28958	CF
	MIN	257,891		185,645	279,595	373,546	467,496						
	END	567,837		170,326	295,661	420,996	546,331						
FH	START	571,060			880,187	1,145,183	1,410,179			80	90	28958	CF
	MIN	322,530			208,295	302,245	396,196						
	END	709,790			180,951	306,286	431,621						
FJ	START	259,593	738,754	1,003,750	1,268,746	1,533,742				70	80	28958	CF
	MIN	146,278	214,448	308,399	402,349	496,300							
	END	321,231	241,748	367,083	492,418	617,753							
FK	START	390,647	578,126	843,122	1,108,118	1,373,114				70	80	28958	CF
	MIN	219,760	133,215	227,166	321,116	415,067							
	END	481,858	110,693	236,029	361,364	486,699							
FL	START	521,689		682,519	947,515	1,212,512	1,477,508			80	90	28958	CF
	MIN	293,232		145,942	239,892	333,843	427,793						
	END	642,461		104,986	230,321	355,656	480,991						
FM	START	650,240			786,888	1,051,884	1,316,880			80	90	28958	CF
	MIN	366,037			159,763	253,713	347,664						
	END	803,089			101,771	227,106	352,441						
FN	START	293,352	699,138	964,135	1,229,131	1,494,127				70	80	28958	CF
	MIN	164,789	193,780	287,731	381,681	475,632							
	END	360,846	207,988	333,323	458,658	583,994							
FO	START	442,543	518,691	783,687	1,048,683	1,313,679				70	80	28958	CF
	MIN	247,869	101,657	195,607	289,558	383,508							
	END	541,294	58,797	184,132	309,467	434,802							
FP	START	581,708			868,260	1,133,256	1,398,252			80	90	28958	CF
	MIN	328,234			201,858	295,809	389,759						
	END	721,717			170,302	295,637	420,972						
FR	START	734,644				952,833	1,217,829	1,482,825		90	100	28958	CF
	MIN	412,319				202,038	295,989	389,939					
	END	902,140				142,702	268,037	393,372					
FS	START	328,206	657,207	922,204	1,187,200	1,452,196				70	80	28958	CF
	MIN	184,145	172,291	266,242	360,192	454,142							
	END	402,777	173,134	298,469	423,804	549,139							



FT	START	491,058		720,815	985,811	1,250,807	1,515,803			80	90	28958	CF
	MIN	275,879		165,038	258,989	352,939	446,889						
	END	604,166		135,618	260,953	386,288	511,623						
FU	START	656,425			784,398	1,049,394	1,314,390			80	90	28958	CF
	MIN	368,298			156,672	250,623	344,573						
	END	805,579			95,586	220,921	346,256						
FV	START	814,269					1,113,001	1,377,997		90	100	28958	CF
	MIN	458,680					245,578	339,528					
	END	1,006,968					188,412	313,747					
FW	START	364,156	612,961	877,957	1,142,953	1,407,949				70	80	28958	CF
	MIN	204,345	149,981	243,931	337,882	431,832							
	END	447,024	137,184	262,519	387,854	513,189							
FX	START	539,969		654,457	919,453	1,184,450	1,449,446			80	90	28958	CF
	MIN	304,823		133,785	227,735	321,686	415,636						
	END	670,523		86,706	212,041	337,376	462,712						
FY	START	723,293				960,950	1,225,946	1,490,942		90	100	28958	CF
	MIN	407,329				208,228	302,178	396,129					
	END	894,023				154,052	279,387	404,723					
FZ	START	899,118					1,002,422	1,267,418	1,532,414	100	110	28958	CF
	MIN	507,816					192,023	285,974	379,924				
	END	1,117,547					103,563	228,898	354,233				
FAA	START	389,457	580,641	845,637	1,110,633	1,375,629				70	80	28958	CF
	MIN	218,842	134,107	228,057	322,008	415,958							
	END	217,544	111,883	237,218	362,553	487,888							
FAB	START	577,933			870,949	1,135,945	1,400,941			80	90	28958	CF
	MIN	326,577			203,916	297,866	391,817						
	END	719,028			174,078	299,413	424,748						
FAC	START	778,927				896,261	1,161,257	1,426,253		90	100	28958	CF
	MIN	437,693				174,255	268,205	362,156					
	END	958,712				98,419	223,754	349,089					
FAD	START	967,390						1,186,594	1,451,590	100	110	28958	CF
	MIN	545,419						244,072	338,023				
	END	1,198,371						160,626	285,961				
C27SC985	FA	START	202,848	927,486	1,221,582	1,515,677				60	70	32138	CF
		MIN	113,801	291,295	395,563	499,830							
		END	248,897	353,546	492,644	631,742							
FB	START	301,768	803,037	1,097,133	1,391,229					60	70	32138	CF
	MIN	170,026	229,512	333,780	438,047								
	END	373,346	254,626	393,724	532,822								
FC	START	405,695	678,589	972,685	1,266,780					60	70	32138	CF
	MIN	227,602	165,521	269,789	374,056								
	END	497,794	150,698	289,796	428,895								
FD	START	499,608	554,140	848,236	1,142,332	1,436,427				70	80	32138	CF
	MIN	282,474	105,946	210,213	314,481	418,748							
	END	622,243	56,785	195,884	334,982	474,080							
FE	START	230,673	892,477	1,186,573	1,480,668					60	70	32138	CF
	MIN	129,617	273,916	378,183	482,451								
	END	283,906	325,721	464,819	603,917								
FF	START	346,635	750,524	1,044,620	1,338,715					60	70	32138	CF
	MIN	194,595	202,064	306,331	410,598								
	END	425,859	209,759	348,857	487,955								
FG	START	456,349	608,546	902,642	1,196,738	1,490,833				70	80	32138	CF
	MIN	257,891	132,962	237,229	341,496	445,764							
	END	567,837	100,044	239,142	378,240	517,339							
FH	START	571,060		760,689	1,054,784	1,348,880				70	80	32138	CF
	MIN	322,530		165,928	270,196	374,463							
	END	709,790		124,432	263,530	402,628							
FJ	START	259,593	855,152	1,149,248	1,443,344					60	70	32138	CF
	MIN	146,278	255,716	359,983	464,250								
	END	321,231	296,801	435,899	574,997								
FK	START	390,647	694,525	988,620	1,282,716					60	70	32138	CF
	MIN	219,760	174,483	278,750	383,017								
	END	481,858	165,746	304,845	443,943								
FL	START	521,689		828,017	1,122,113	1,416,209				70	80	32138	CF
	MIN	293,232		197,526	301,793	406,060							
	END	642,461		173,802	312,901	451,999							
FM	START	650,240			961,485	1,255,581	1,549,677			80	90	32138	CF
	MIN	366,037			221,664	325,931	430,199						
	END	803,089			184,350	323,449	462,547						
FN	START	293,352	815,537	1,109,633	1,403,728					60	70	32138	CF
	MIN	164,789	235,048	339,315	443,582								
	END	360,846	263,041	402,140	541,238								
FO	START	442,543	635,089	929,185	1,223,281	1,517,376				70	80	32138	CF

	MIN	247,869	142,924	247,191	351,459	455,726							
	END	541,294	113,850	252,948	392,046	531,145							
FP	START	581,708		748,762	1,042,858	1,336,953			70	80	32138	CF	
	MIN	328,234		159,492	263,760	368,027							
	END	721,717		113,783	252,882	391,980							
FR	START	734,644			862,435	1,156,530	1,450,626		80	90	32138	CF	
	MIN	412,319			169,989	274,256	378,524						
	END	902,140			99,946	239,045	378,143						
FS	START	328,206	773,606	1,067,702	1,361,797				60	70	32138	CF	
	MIN	184,145	213,558	317,826	422,093								
	END	402,777	228,187	367,285	506,383								
FT	START	491,058	572,217	866,313	1,160,409	1,454,505			70	80	32138	CF	
	MIN	275,879	112,355	216,622	320,890	425,157							
	END	604,166	65,335	204,434	343,532	482,630							
FU	START	656,425			958,995	1,253,091	1,547,187		80	90	32138	CF	
	MIN	368,298			218,573	322,841	427,108						
	END	805,579			178,165	317,264	456,362						
FV	START	814,269				1,051,703	1,345,798		80	90	32138	CF	
	MIN	458,680				223,845	328,112						
	END	1,006,968				159,420	298,518						
FW	START	364,156	729,359	1,023,455	1,317,551				60	70	32138	CF	
	MIN	204,345	191,248	295,516	399,783								
	END	447,024	192,237	331,335	470,434								
FX	START	539,969		799,956	1,094,051	1,388,147			70	80	32138	CF	
	MIN	304,823		185,369	289,637	393,904							
	END	670,523		155,522	294,621	433,719							
FY	START	723,293			870,552	1,164,648	1,458,743		80	90	32138	CF	
	MIN	407,329			176,179	280,446	384,713						
	END	894,023			111,297	250,395	389,493						
FZ	START	899,118					1,235,219	1,529,315	90	100	32138	CF	
	MIN	507,816					274,558	378,825					
	END	1,117,547					213,669	352,767					
FAA	START	389,457	697,039	991,135	1,285,231				60	70	32138	CF	
	MIN	218,842	175,374	279,642	383,909								
	END	217,544	166,936	306,034	445,133								
FAB	START	577,933		751,451	1,045,547	1,339,642			70	80	32138	CF	
	MIN	326,577		161,549	265,817	370,084							
	END	719,028		117,559	256,657	395,756							
FAC	START	778,927				1,099,958	1,394,054		80	90	32138	CF	
	MIN	437,693				246,473	350,740						
	END	958,712				194,762	333,860						
FAD	START	967,390					1,154,395	1,448,490	90	100	32138	CF	
	MIN	545,419					232,657	336,924					
	END	1,198,371					145,396	284,495					
C27SC1020 FA	START	202,848	1,012,572	1,327,939					50	60	34463	CF	
	MIN	113,801	321,461	433,270									
	END	248,897	393,789	542,948									
FB	START	301,768	888,123	1,203,491	1,518,858				60	70	34463	CF	
	MIN	170,026	259,678	371,487	483,296								
	END	373,346	294,869	444,028	593,187								
FC	START	405,695	763,675	1,079,042	1,394,409				60	70	34463	CF	
	MIN	227,602	195,687	307,496	419,305								
	END	497,794	190,941	340,100	489,259								
FD	START	499,608	639,226	954,594	1,269,961				60	70	34463	CF	
	MIN	282,474	136,112	247,921	359,730								
	END	622,243	97,029	246,188	395,347								
FE	START	230,673	977,563	1,292,930					50	60	34463	CF	
	MIN	129,617	304,082	415,891									
	END	283,906	365,964	515,123									
FF	START	346,635	835,610	1,150,977	1,466,345				60	70	34463	CF	
	MIN	194,595	232,230	344,038	455,847								
	END	425,859	250,002	399,161	548,320								
FG	START	456,349	693,632	1,008,999	1,324,367				60	70	34463	CF	
	MIN	257,891	163,128	274,937	386,745								
	END	567,837	140,287	289,446	438,605								
FH	START	571,060		867,046	1,182,414	1,497,781			70	80	34463	CF	
	MIN	322,530		203,636	315,445	427,254							
	END	709,790		174,736	323,895	473,054							
FJ	START	259,593	940,238	1,255,606					50	60	34463	CF	
	MIN	146,278	285,882	397,691									
	END	321,231	337,044	486,203									
FK	START	390,647	779,611	1,094,978	1,410,345				60	70	34463	CF	
	MIN	219,760	204,649	316,458	428,266								

	END	481,858	205,990	355,149	504,308								
FL	START	521,689	619,008	934,375	1,249,742					60	70	34463	CF
	MIN	293,232	123,425	235,233	347,042								
	END	642,461	74,947	224,106	373,265								
FM	START	650,240		773,747	1,089,115	1,404,482				70	80	34463	CF
	MIN	366,037		155,104	266,913	378,722							
	END	803,089		95,556	244,715	393,874							
FN	START	293,352	900,623	1,215,990	1,531,358					60	70	34463	CF
	MIN	164,789	265,214	377,022	488,831								
	END	360,846	303,284	452,444	601,603								
FO	START	442,543	720,175	1,035,542	1,350,910					60	70	34463	CF
	MIN	247,869	173,090	284,899	396,708								
	END	541,294	154,093	303,252	452,411								
FP	START	581,708		855,119	1,170,487	1,485,854				70	80	34463	CF
	MIN	328,234		197,200	309,009	420,817							
	END	721,717		164,087	313,246	462,405							
FR	START	734,644			990,064	1,305,431				70	80	34463	CF
	MIN	412,319			215,238	327,047							
	END	902,140			160,311	309,470							
FS	START	328,206	858,692	1,174,059	1,489,427					60	70	34463	CF
	MIN	184,145	243,725	355,533	467,342								
	END	402,777	268,430	417,589	566,748								
FT	START	491,058	657,303	972,671	1,288,038					60	70	34463	CF
	MIN	275,879	142,521	254,330	366,139								
	END	604,166	105,579	254,738	403,897								
FU	START	656,425		771,257	1,086,625	1,401,992				70	80	34463	CF
	MIN	368,298		152,014	263,823	375,631							
	END	805,579		89,371	238,530	387,689							
FV	START	814,269				1,200,603	1,515,971			80	90	34463	CF
	MIN	458,680				276,636	388,444						
	END	1,006,968				229,845	379,004						
FW	START	364,156	814,445	1,129,813	1,445,180					60	70	34463	CF
	MIN	204,345	221,414	333,223	445,032								
	END	447,024	232,480	381,639	530,798								
FX	START	539,969	590,946	906,313	1,221,680	1,537,048				70	80	34463	CF
	MIN	304,823	111,268	223,077	334,886	446,694							
	END	670,523	56,667	205,826	354,986	504,145							
FY	START	723,293			998,181	1,313,548				70	80	34463	CF
	MIN	407,329			221,428	333,236							
	END	894,023			171,661	320,821							
FZ	START	899,118				1,090,024	1,405,391			80	90	34463	CF
	MIN	507,816				223,081	334,890						
	END	1,117,547				144,996	294,155						
FAA	START	389,457	782,126	1,097,493	1,412,860					60	70	34463	CF
	MIN	218,842	205,540	317,349	429,158								
	END	217,544	207,179	356,338	505,497								
FAB	START	577,933		857,809	1,173,176	1,488,543				70	80	34463	CF
	MIN	326,577		199,257	311,066	422,875							
	END	719,028		167,863	317,022	466,181							
FAC	START	778,927			933,492	1,248,859				70	80	34463	CF
	MIN	437,693			187,454	299,263							
	END	958,712			116,028	265,187							
FAD	START	967,390				1,009,200	1,324,567			80	90	34463	CF
	MIN	545,419				181,180	292,989						
	END	1,198,371				76,724	225,883						