

L.D.

5 X --	=	mm
5 X 5	=	25 mm
5 X 20	=	100 mm

Tolerance class of tapered roller bearings

/P0: Equivalent to AFBMA class 4

/P6: Equivalent to AFBMA class 2

/P5: Equivalent to AFBMA class 3

/P4: Equivalent to AFBMA class 0

/P2: Equals tolerance ABEC9

Designs, Types and Features

X: Dimension series 320 & 329 conform W/ISO/R355

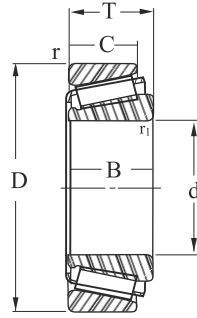
Contact angle

C: Medium contact angle $17^{\circ} \sim 24^{\circ}$
 D: Steep contact angle $25^{\circ} \sim 45^{\circ}$ now replaced by using 313xx series
 LM: Light load symbol
 HM: Heavy load symbol

Mounting combinations:

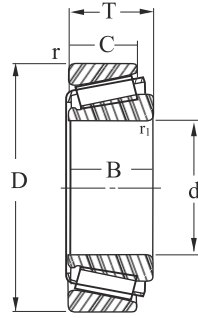
DB: Back-to-back
 DF: Face-to-face
 KLR: DB combination cone spacer
 KR: DF combination cup spacer

TAPERED ROLLER BEARINGS



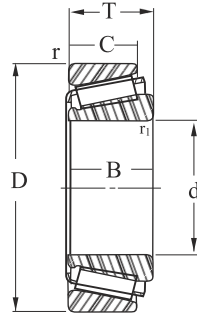
Principal dimensions mm (in)							Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)	
d	D	T	B	C	r _{1min}	r _{smn}			Dynamic C _r	Static Cor	Grease	Oil
15 0.5905	35 1.3779	11.75 0.4626	11 0.4330	10.0 0.3937	0.6 0.024	0.6 0.024	0.053 0.117	30202	20.88 4700	19.97 4490	9400	12000
	42 1.6535	14.25 0.5610	13 0.5118	11.0 0.4330	1.0 0.039	1.0 0.039	0.098 0.216					
17 0.6692	40 1.5748	13.25 0.5216	12 0.4724	11.0 0.4330	1.0 0.039	1.0 0.039	0.079 0.174	30203	18.45 4150	19.49 4390	9400	12000
	40 1.5748	17.25 0.6791	16 0.6299	14.0 0.5511	1.0 0.039	1.0 0.039	0.105 0.232	32203				
	47 1.8503	15.25 0.6003	14 0.5511	12.0 0.4724	1.0 0.039	1.0 0.039	0.134 0.295	30303	26.01 5850	25.25 5680	8600	11000
	42 1.6535	15.00 0.5905	15 0.5905	12.0 0.4724	0.6 0.024	0.6 0.024	0.097 0.214	32004X	22.41 5040	26.78 6030	9000	12000
20 0.7874	47 1.8503	15.25 0.6003	14 0.5511	12.0 0.4724	1.0 0.039	1.0 0.039	0.127 0.280	30204	25.38 5710	27.55 6200	8400	11000
	47 1.8503	19.25 0.7578	18 0.7086	15.0 0.5905	1.0 0.039	1.0 0.039	0.160 0.353	32204	32.85 7390	37.92 8530	8400	11000
	52 2.0472	16.25 0.6397	15 0.5905	13.0 0.5118	1.5 0.059	1.5 0.059	0.172 0.379	30304	31.95 7190	32.64 7340	7600	10000
	52 2.0472	22.25 0.8759	21 0.8267	18.0 0.7086	1.5 0.059	1.5 0.059	0.241 0.531	32304	41.85 9420	46.56 10480	7600	10000
	47 1.8503	15.00 0.5905	15 0.5905	11.5 0.4527	0.6 0.024	0.6 0.024	0.116 0.256	32005X	25.02 5630	32.16 7240	7500	10000
	47 1.8503	17.00 0.6692	17 0.6692	14.0 0.5511	0.6 0.024	0.6 0.024	0.131 0.289	33005				
	52 2.0472	16.25 0.6397	15 0.5905	13.0 0.5118	1.0 0.039	1.0 0.039	0.157 0.346	30205	28.35 6380	32.64 7340	6900	9300
	52 2.0472	19.25 0.7578	18 0.7086	15.0 0.5905	1.0 0.039	1.0 0.039	0.187 0.412	32205	37.80 8510	45.12 10150	6900	9300
25 0.9842	52 2.0472	22.00 0.8661	22 0.8661	18.0 0.7086	1.0 0.039	1.0 0.039	0.221 0.487	33205	42.75 9620	55.20 12420	6900	9300
	62 2.4409	18.25 0.7185	17 0.6692	15.0 0.5905	1.5 0.059	1.5 0.059	0.270 0.595	30305	43.65 9820	45.60 10260	6400	8400
	62 2.4409	25.25 0.9940	24 0.9448	20.0 0.7874	1.5 0.059	1.5 0.059	0.376 0.829	32305	55.35 12450	61.92 13930	6400	8400
	55 2.1653	17.00 0.6692	17 0.6692	13.0 0.5118	1.0 0.039	1.0 0.039	0.172 0.379	32006X	33.75 7590	44.16 9940	6600	8700
	55 2.1653	20.00 0.7874	20 0.7874	16.0 0.6299	1.0 0.039	1.0 0.039	0.208 0.459	33006				
	62 2.4409	17.25 0.6791	16 0.6299	14.0 0.5511	1.0 0.039	1.0 0.039	0.238 0.525	30206	39.15 8810	46.08 10370	6000	7900
30 1.1811	62 2.4409	21.25 0.8366	20 0.7874	17.0 0.6692	1.0 0.039	1.0 0.039	0.297 0.655	32206	49.05 10360	61.44 13820	6000	7900
	62 2.4409	25.00 0.9842	25 0.9842	19.5 0.7677	1.0 0.039	1.0 0.039	0.355 0.783	33206	58.50 13160	73.92 16630	6000	7900
	72 2.8346	20.75 0.8169	19 0.7480	16.0 0.6299	1.5 0.059	1.5 0.059	0.403 0.889	30306	54.00 12150	58.56 13180	5400	7200
	72 2.8346	28.75 1.1318	27 1.0629	23.0 0.9055	1.5 0.059	1.5 0.059	0.570 1.257	32306	72.90 16400	86.40 19440	5400	7200
	62 2.4409	18.00 0.7086	18 0.7086	14.0 0.5511	1.0 0.039	1.0 0.039	0.230 0.507	32007X	37.35 8400	50.40 11340	5800	7700
	62 2.4409	21.00 0.8267	21 0.8267	17.0 0.6692	1.0 0.039	1.0 0.039	0.267 0.589	33007				
	72 2.8346	18.25 0.7185	17 0.6692	15.0 0.5905	1.5 0.059	1.5 0.059	0.340 0.750	30207	49.95 11240	59.04 13280	5200	7000
	72 2.8346	24.25 0.9547	23 0.9055	19.0 0.7480	1.5 0.059	1.5 0.059	0.456 1.005	32207	65.25 14680	83.52 18790	5200	7000
	72 2.8346	28.00 1.1023	28 1.1023	22.0 0.8661	1.5 0.059	1.5 0.059	0.540 1.191	33207	78.75 17720	104.64 23540	5200	7000
	80 3.1496	22.75 0.8956	21 0.8267	18.0 0.7086	2.0 0.079	1.5 0.059	0.538 1.186	30307	67.50 15190	73.92 16630	4800	6300
40 1.5748	80 3.1496	32.75 1.2893	31 1.2204	25.0 0.9842	2.0 0.079	1.5 0.059	0.765 1.687	32307	90.90 20450	110.40 24840	4800	6300
	68 2.6771	19.00 0.7480	19 0.7480	14.50 0.5708	1.0 0.039	1.0 0.039	0.280 0.617	32008X	45.00 10130	62.88 14150	5000	6700
	68 2.6771	22.00 0.8661	22 0.8661	18.00 0.7086	1.0 0.039	1.0 0.039	0.322 0.710	33008	53.55 12050	79.20 17820	5000	6700
	80 3.1496	19.75 0.7775	18 0.7086	16.00 0.6299	1.5 0.059	1.5 0.059	0.438 0.966	30208	54.90 12350	64.32 14470	4700	6300
	80 3.1496	24.75 0.9744	23 0.9055	19.00 0.7480	1.5 0.059	1.5 0.059	0.549 1.211	32208	71.55 16100	89.76 20200	4700	6300
	80 3.1496	32.00 1.2598	32 1.2598	25.00 0.9842	1.5 0.059	1.5 0.059	0.744 1.641	33208	92.70 20860	126.72 28510	4700	6300
	90 3.5433	25.25 0.9940	23 0.9055	20.00 0.7874	2.0 0.079	1.5 0.059	0.758 1.671	30308	82.35 18530	97.92 22030	4200	5600
	90 3.5433	25.25 1.3878	33 1.2992	27.00 1.0629	2.0 0.079	1.5 0.059	1.050 2.315	32308	109.80 24710	144.00 32400	4200	5600
	75 1.7716	20.00 0.7874	20 0.7874	15.50 0.6102	1.0 0.039	1.0 0.039	0.354 0.781	32009X	51.75 11640	73.44 16520	4600	6000
	75 2.9527	24.00 0.9448	24 0.9448	19.00 0.7480	1.0 0.039	1.0 0.039	0.414 0.913	33009	59.40 13370	89.76 20200	4600	6000

TAPERED ROLLER BEARINGS



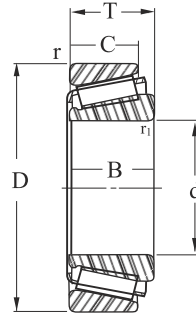
Principal dimensions mm (in)							Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)	
d	D	T	B	C	r _{1min}	r _{smin}			Dynamic C _r	Static C _{or}	Grease	Oil
	80 3.1496	26.00 1.0236	26 1.0236	20.50 0.8070	1.5 0.059	1.5 0.059	0.052 1.217	33109	76.05 17110	110.40 24840	4500	5900
	85 3.3464	20.75 0.8169	19 0.7480	16.00 0.6299	1.5 0.059	1.5 0.059	0.488 1.076	30209	60.75 13670	75.36 16960	4200	5600
	85 3.3464	24.75 0.9744	23 0.9055	19.00 0.7480	1.5 0.059	1.5 0.059	0.602 1.327	32209	73.80 16610	96.00 21600	4200	5600
	85 3.3464	32.00 1.2598	32 1.2598	25.00 0.9842	1.5 0.059	1.5 0.059	0.817 1.801	33209	96.30 21670	145.36 30460	4200	5600
	100 3.9370	27.25 1.0728	25 0.9842	22.00 0.4724	2.0 0.079	1.5 0.059	1.010 2.227	30309	99.90 22480	120.96 27220	3800	5000
	100 3.9370	38.25 1.5059	36 1.4173	30.00 1.1811	2.0 0.079	1.5 0.059	1.420 3.131	32309	138.60 31190	183.36 41260	3800	5000
50 1.9685	80 3.1496	20.00 0.7874	20 0.7874	15.50 0.6102	1.0 0.039	1.0 0.039	0.380 0.858	32010X	56.25 12660	84.48 19010	4200	5500
	80 3.1496	24.00 0.9448	24 0.9448	19.00 0.7480	1.0 0.039	1.0 0.039	0.452 0.997	33010	62.55 14070	98.88 22250	4200	5500
	85 3.3464	26.00 1.0236	26 1.0236	20.00 0.7874	1.5 0.059	1.5 0.059	0.597 1.316	33110	77.85 17520	116.16 26140	4000	5300
	90 3.5433	21.75 0.8563	20 0.7874	17.00 0.6692	1.5 0.059	1.5 0.059	0.558 1.230	30210	69.30 15590	89.28 20090	3800	5000
	90 3.5433	24.75 0.9744	23 0.9055	19.00 0.7480	1.5 0.059	1.5 0.059	0.644 1.420	32210	78.75 17720	104.64 23540	3800	5000
	90 3.5433	32.00 1.2598	32 1.2598	24.50 0.9645	1.5 0.059	1.5 0.059	0.867 1.912	33210	103.50 23290	151.68 34130	3800	5000
	110 4.3307	29.25 1.1515	27 1.0629	23.00 0.9055	2.5 0.098	2.0 0.079	1.280 2.822	30310	119.70 26930	145.92 32830	3400	4600
	110 4.3307	42.25 1.6633	40 1.5748	33.00 1.2992	2.5 0.098	2.0 0.079	1.880 4.145	32310	165.60 37260	222.72 50110	3400	4600
55 2.1653	90 3.5433	23.00 0.9055	23 0.9055	17.50 0.6889	1.5 0.059	1.5 0.059	0.568 1.252	32011X	72.45 16300	113.28 25490	3800	5100
	90 3.5433	27.00 1.0629	27 1.0629	21.00 0.8267	1.5 0.059	1.5 0.059	0.657 1.449	33011	82.35 18530	132.48 29810	3800	5100
	95 3.7401	30.00 1.1811	30 1.1811	23.00 0.9055	1.5 0.059	1.5 0.059	0.877 1.934	33111	99.90 22480	148.80 33480	3700	4900
	100 3.9370	22.75 0.8956	21 0.8267	18.00 0.7086	2.0 0.079	1.5 0.059	0.736 1.623	30211	83.70 18830	106.56 23980	3400	4600
	100 3.9370	26.75 1.0531	25 0.9842	21.00 0.8267	2.0 0.079	1.5 0.059	0.860 1.896	32211	97.20 21870	128.64 28940	3400	4600
	100 3.9370	35.00 1.3779	35 1.3779	27.00 1.0629	2.0 0.079	1.5 0.059	1.180 2.602	33211	124.20 27950	180.48 40610	3400	4600
	120 4.7244	31.50 1.2401	29 1.1417	25.00 0.9842	2.5 0.098	2.0 0.079	1.630 3.594	30311	139.50 31390	171.84 38660	3100	4200
	120 4.7244	45.50 1.7913	43 1.6929	35.00 1.3779	2.5 0.098	2.0 0.079	2.390 5.270	32311	193.50 43540	264.00 59400	3100	4200
60 2.3622	95 3.7401	23.00 0.9055	23 0.9055	17.50 0.6889	1.5 0.059	1.5 0.059	0.608 1.341	32012X	73.80 16610	118.08 26570	3500	4600
	95 3.7401	27.00 1.0629	27 1.0629	21.00 0.8267	1.5 0.059	1.5 0.059	0.713 1.572	33012	84.15 18930	139.20 31320	3500	4600
	100 3.9370	30.00 1.1811	30 1.1811	23.00 0.9055	1.5 0.059	1.5 0.059	0.910 2.007	33112	101.70 22880	157.44 35420	3400	4500
	110 4.3307	23.75 0.9350	22 0.8661	19.00 0.7480	2.0 0.079	1.5 0.059	0.930 2.051	30212	94.50 21260	120.00 27000	3200	4300
	110 4.3307	29.75 1.1712	28 1.1023	24.00 0.9448	2.0 0.079	1.5 0.059	1.180 2.602	32212	117.00 26330	157.44 35420	3200	4300
	110 4.3307	38.00 1.4960	38 1.4960	29.00 1.1417	2.0 0.079	1.5 0.059	1.560 3.440	33212	150.30 33820	224.64 50540	3200	4300
	130 4.3307	33.50 1.3189	31 1.2204	26.00 1.0236	3.0 0.118	2.5 0.098	2.030 4.476	30312	162.00 36450	201.60 45360	2900	3800
	130 4.3307	48.50 1.9094	46 1.8110	37.00 1.4566	3.0 0.118	2.5 0.098	2.960 6.527	32312	219.60 49410	302.40 68040	2900	3800
65 2.5590	100 3.9370	23.00 0.9055	23 0.9055	17.50 0.6889	1.5 0.059	1.5 0.059	0.646 1.424	32013X	74.70 16810	122.88 27650	3200	4400
	100 3.9370	27.00 1.0629	27 1.0629	21.00 0.8267	1.5 0.059	1.5 0.059	0.760 1.676	33013	87.75 19740	149.76 33700	3200	4400
	110 4.3307	34.00 1.3385	34 1.3385	26.50 1.0433	1.5 0.059	1.5 0.059	1.320 2.911	33113	129.60 29160	202.56 45580	3100	4200
	120 4.7244	24.50 0.9645	23 0.9055	20.00 0.7874	2.0 0.079	1.5 0.059	1.180 2.602	30213	110.70 24910	142.08 31970	2900	4000
	120 4.7244	32.75 1.2893	31 1.2204	27.00 1.0629	2.0 0.079	1.5 0.059	1.550 3.418	32213	143.10 32200	197.76 44500	2900	4000
	120 4.7244	41.00 1.6141	41 1.6141	32.00 1.2598	2.0 0.079	1.5 0.059	2.040 4.498	33213	175.50 39490	254.40 57240	2900	4000
	140 4.7244	36.00 1.4173	33 1.2992	28.00 1.1023	3.0 0.118	2.5 0.098	2.510 5.535	30313	182.70 41110	228.48 51410	2700	3500
	140 4.7244	51.00 2.0078	48 1.8897	39.00 1.5354	3.0 0.118	2.5 0.098	3.600 7.938	32313	245.70 55280	302.40 68040	2700	3500
70 2.7559	110 4.3307	25.00 0.9842	25 0.9842	19.00 0.7480	1.5 0.059	1.5 0.059	0.869 1.916	32014X	94.50 21260	153.60 34560	3000	4000
	110 4.3307	31.00 1.2204	31 1.2204	25.50 1.0039	1.5 0.059	1.5 0.059	1.110 2.448	33014	114.30 25720	195.84 44060	3000	4000

TAPERED ROLLER BEARINGS



Principal dimensions mm (in)							Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)							
d	D	T	B	C	r _{1min}	r _{smin}			Dynamic C _r	Static C _{or}	Grease	Oil						
	120	37.00	37	29.00	2.0	1.5	1.710	33114	117.90	155.52	2800	3700						
	4.7244	1.4566	1.4566	21.00	0.079	0.059	3.771											
	125	26.25	24	21.00	2.0	1.5	1.300											
	4.9212	1.0334	0.9448	8.267	0.079	0.059	2.867											
	125	33.25	31	27.00	2.0	1.5	1.660											
	4.9212	1.3090	1.2204	1.0629	0.079	0.059	3.660											
	125	41.00	41	32.00	2.0	1.5	2.150											
	4.9212	1.6141	1.6141	1.2598	0.079	0.059	4.741											
	150	38.00	35	30.00	3.0	2.5	3.030											
5.9055	1.4960	1.3779	1.1811	0.118	0.098	6.681												
150	54.00	51	42.00	3.0	2.5	4.350												
5.9055	2.1259	2.0078	1.6535	0.118	0.098	9.592												
75 2.9527	115	25.00	25	19.00	1.5	1.5	0.925	32015X	95.40	160.32	2900	3800						
	4.5275	0.9842	0.9842	0.7480	0.059	0.059	2.040											
	115	31.00	31	25.50	1.5	1.5	1.180											
	4.5275	1.2204	1.2204	1.0039	0.059	0.059	2.602											
	125	37.00	37	29.00	2.0	1.5	1.800											
	4.9212	1.4566	1.4566	1.1417	0.079	0.059	3.969											
	130	27.25	25	22.00	2.0	1.5	1.430											
	5.1181	1.0728	0.9842	0.8661	0.079	0.059	3.153											
	130	33.25	31	27.00	2.0	1.5	1.720											
	5.1181	1.3090	1.2204	1.0629	0.079	0.059	3.793											
	130	41.00	41	31.00	2.0	1.5	2.250											
	5.1181	1.6141	1.6141	1.2204	0.079	0.059	4.961											
160	40.00	37	31.00	3.0	2.5	3.630												
6.2992	1.5748	1.4566	1.2204	0.118	0.098	8.004												
160	58.00	55	45.00	3.0	2.5	5.310												
6.2992	2.2834	2.1653	1.7716	0.118	0.098	11.709												
80 3.1496	125	29.00	29	22.00	1.5	1.5	1.32	32016X	125.10	207.36	2700	3500						
	4.9212	1.1417	1.1417	0.8661	0.059	0.059	2.911											
	125	36.00	36	39.50	1.5	1.5	1.66											
	4.9212	1.4173	1.4173	1.5551	0.059	0.059	3.660											
	130	37.00	37	29.00	2.0	1.5	1.88											
	5.1181	1.4566	1.4566	1.1417	0.079	0.059	4.145											
	140	28.25	26	22.00	2.5	2.0	1.69											
	5.5118	1.1122	1.0236	0.8661	0.098	0.079	3.726											
	140	35.35	33	28.00	2.5	2.0	2.13											
	5.5118	1.3917	1.2992	1.1023	0.098	0.079	4.697											
	140	46.00	46	35.00	2.5	2.0	2.93											
	5.5118	1.8110	1.8110	1.3779	0.098	0.079	6.461											
170	42.50	39	33.00	3.0	2.5	4.27												
6.6929	1.6732	1.6732	1.2992	0.118	0.098	9.415												
85 3.3464	170	61.50	58	48.00	3.0	2.5	6.35	32316	355.50	504.00	2200	2800						
	6.6929	2.4212	2.2834	1.8897	0.118	0.098	14.002											
	130	29.00	29	22.00	1.5	1.5	1.38											
	5.1181	1.1417	1.1417	0.8661	0.059	0.059	3.043											
	130	36.00	36	29.50	1.5	1.5	1.75											
	5.1181	1.4173	1.4173	1.1614	0.059	0.059	3.859											
	140	41.00	41	32.00	2.5	2.0	2.51											
	5.5118	1.6141	1.6141	1.2598	0.098	0.079	5.535											
	150	30.50	28	24.00	2.5	2.0	2.12											
	5.9055	1.2007	1.1023	0.9448	0.098	0.079	4.675											
	150	38.50	36	30.00	2.5	2.0	2.64											
	5.9055	1.5157	1.4173	1.1811	0.098	0.079	5.821											
150	49.00	49	37.00	2.5	2.0	3.57												
5.9055	1.9291	1.9291	1.4566	0.098	0.079	7.872												
90 3.5433	180	44.50	41	34.00	4.0	3.0	5.08	30317	274.50	350.40	2000	2700						
	7.0866	1.7519	1.6141	1.3385	0.157	0.118	11.201											
	180	63.50	60	49.00	4.0	3.0	7.31											
	7.0866	2.5000	2.3622	1.9291	0.157	0.118	16.119											
	140	32.00	32	24.00	2.0	1.5	1.78											
	5.5118	1.2598	1.2598	0.9448	0.079	0.059	3.925											
	140	39.00	39	32.50	2.0	1.5	2.21											
	5.5118	1.5354	1.5354	1.2795	0.079	0.059	4.873											
	150	45.00	45	35.00	2.5	2.0	3.14											
	5.9055	1.7716	1.7716	1.3779	0.098	0.079	6.924											
	160	32.50	30	26.00	2.5	2.0	2.60											
	6.2992	1.2795	1.1811	1.0236	0.098	0.079	5.733											
95 3.7401	160	42.50	40	34.00	2.5	2.0	3.41	32218	235.80	345.60	2100	2800						
	6.2992	1.6732	1.5748	1.3385	0.098	0.079	7.519											
	190	46.50	43	36.00	4.0	3.0	5.67											
	7.4803	1.8307	1.6929	1.4173	0.157	0.118	12.502											
	190	67.50	64	53.00	4.0	3.0	8.30											
	7.4803	2.6574	2.5196	2.0866	0.157	0.118	18.302											
	145	32.00	32	24.00	2.0	1.5	1.88											
	5.7086	1.2598	1.2598	0.9448	0.079	0.059	4.145											
	145	39.00	39	32.50	2.0	1.5	2.30											
	5.7086	1.5354	1.5354	1.2795	0.079	0.059	5.072											
	100 3.9370	170	34.50	32	27.00	3.0	2.5						3.13	30219	203.40	278.40	2000	2700
		6.6929	1.3582	1.2598	1.0629	0.118	0.098						6.902					
170		45.50	43	37.00	3.0	2.5	4.22											
6.6929	1.7913	1.6929	1.4566	0.118	0.098	9.305												

TAPERED ROLLER BEARINGS



Principal dimensions mm (in)							Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)						
d	D	T	B	C	r _{1min}	r _{smin}			Dynamic C _r	Static C _{0r}	Grease	Oil					
	200 7.8740	49.50 1.9488	45 1.7716	38.00 1.4960	4.0 0.157	3.0 0.118	6.55 14.443	30319	328.50 73910	427.20 96120	2000	2400					
	200 7.8740	71.50 2.8149	67 2.6378	55.00 2.1653	4.0 0.157	3.0 0.118	9.65 21.278						32319				
		150 5.9055	32.00 1.2598	32 1.2598	24.00 0.9448	2.0 0.079	1.5 0.059	1.95 4.300	32020X	153.00 34430	269.76 60700	2100	2900				
		150 5.9055	39.00 1.5354	39 1.5354	32.50 1.2795	2.0 0.079	1.5 0.059	2.38 5.248						33020			
			180 7.0866	37.00 1.4566	34 1.3385	29.00 1.1417	3.0 0.118	2.5 0.098	3.78 8.335	30220	232.20 52250	321.60 72360	1900	2600			
			180 7.0866	49.00 1.9291	46 1.8110	39.00 1.5354	3.0 0.118	2.5 0.098	5.05 11.135						32220		
				215 8.4645	51.50 2.0275	47 1.8503	39.00 1.5354	4.0 0.157	3.0 0.118	7.94 17.508	30320	369.00 83030	480.00 108000	1700	2300		
				215 8.4645	77.50 3.0511	73 2.8740	60.00 2.3622	4.0 0.157	3.0 0.118	12.70 28.004						32320	
					105 4.1338	35.00 1.3779	35 1.3779	26.00 1.0236	2.0 0.079	2.5 0.098	2.42 5.336	32021X	201.00 45230	335.00 75380	2100	2800	
					160 6.2992	43.00 1.6929	43 1.6929	34.00 1.3385	2.0 0.079	2.5 0.098	3.00 6.615						33021
						190 7.4803	39.00 1.5354	36 1.4173	30.00 1.1811	2.5 0.098	3.0 0.118	4.39 9.680	30221	287.00 64580	380.00 85500	1900	2500
						190 7.4803	53.00 2.0866	50 1.9685	43.00 1.6929	2.5 0.098	3.0 0.118	6.25 13.781					
						225 8.8582	53.50 2.1063	49 1.9291	41.00 1.6141	3.0 0.118	3.0 0.118	8.93 19.691	30321	365.00 82130	420.00 94500	1700	2300
						225 8.8582	81.50 3.2086	77 3.0315	63.00 2.4803	3.0 0.118	4.0 0.157	14.5 31.973					
						110 4.3307	38.00 1.4960	38 1.4960	29.00 1.1417	2.0 0.079	2.5 0.098	3.07 6.769	32022X	236.00 53100	390.00 87750	2000	2700
						170 6.6929	47.00 1.8503	47 1.8503	37.00 1.4566	2.0 0.079	2.5 0.098	3.80 8.379					
						200 7.8740	41.00 1.6141	38 1.4960	32.00 1.2598	2.5 0.098	3.0 0.118	5.18 11.422	30222	288.00 64800	500.00 112500	2000	2700
						200 7.8740	56.00 2.2047	53 2.0866	46.00 1.8110	2.5 0.098	3.0 0.118	7.43 16.383					
						240 9.4488	54.50 2.1456	50 1.9685	42.00 1.6535	3.0 0.118	3.0 0.118	10.50 23.153	30322	400.00 9000	465.00 104630	1600	2200
						240 9.4488	84.50 3.3267	80 3.1496	65.00 2.5590	3.0 0.118	3.0 0.118	16.90 37.265					
						120 4.7244	38.00 1.4960	38 1.4960	29.00 1.1417	2.0 0.079	2.5 0.098	3.25 7.166	32024X	245.00 55130	420.00 94500	1800	2500
						215 8.4645	43.50 1.7126	40 1.5748	34.00 1.3385	2.5 0.098	3.0 0.118	6.23 13.737					
						215 8.4645	61.50 2.4212	58 2.2834	50.00 1.9685	2.5 0.098	3.0 0.118	9.08 20.021	32224	460.00 103500	680.00 151300	1700	2200
						260 10.2362	59.50 2.3425	55 2.1653	46.00 1.8110	3.0 0.118	3.0 0.118	13.20 29.106					
						260 10.2362	90.05 3.5452	86 3.3858	69.00 2.7165	3.0 0.118	4.0 0.157	22.40 49.392	32324	815.00 183380	1130.00 254250	1500	2000
						200 7.8740	45.00 1.7716	45 1.7716	34.00 1.3385	2.0 0.079	2.5 0.098	4.96 10.937					
						230 9.0551	43.75 1.7224	40 1.5748	34.00 1.3385	3.0 0.118	4.0 0.157	7.25 15.986	30226	375.00 84380	505.00 113630	1500	2000
						230 9.0551	67.75 2.6673	64 2.5196	54.00 2.1259	3.0 0.118	4.0 0.157	11.20 24.696					
						280 11.0236	63.75 2.5098	58 2.2834	49.00 1.9291	4.0 0.157	4.0 0.157	16.70 36.824	30326	525.00 118130	625.00 140630	1400	1800
						210 8.2677	45.00 1.7716	45 1.7716	34.00 1.3385	2.0 0.079	2.5 0.098	5.28 11.642					
						250 9.8425	45.75 1.8011	42 1.6535	36.00 1.4173	3.0 0.118	3.0 0.118	8.22 18.125	30228	375.00 84380	485.00 109150	1400	1900
						250 9.8425	71.75 2.8248	68 2.6771	58.00 2.2834	3.0 0.118	4.0 0.157	14.10 31.091					
						300 11.8110	67.75 2.6673	62 2.4409	53.00 2.0866	4.0 0.157	4.0 0.157	20.40 45.392	30328	640.00 144000	780.00 175500	1300	1700
						225 8.8582	48.00 1.8897	48 1.8897	36.00 1.4173	2.5 0.098	3.0 0.118	6.37 14.046					
						270 10.6299	49.00 1.9291	45 1.7716	38.00 1.4960	3.0 0.118	4.0 0.157	11.20 24.696	30230	450.00 101250	605.00 136130	1300	1700
						270 10.6299	77.00 3.0315	73 2.8740	60.00 2.3622	3.0 0.118	4.0 0.157	18.20 40.131					
						320 12.5984	72.00 2.8346	65 2.5590	55.00 2.1653	4.0 0.157	4.0 0.157	24.70 54.464	30330	680.00 153000	1070.00 240750	1200	1600