

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P14678

Luminaire Tested: **XTOR3A-XTORFLD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14678
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR3A-XTORFLD
Description: LUMARK CROSSTOUR 30W LED WALL PACK
Light Source: -
Ballast/Driver: -

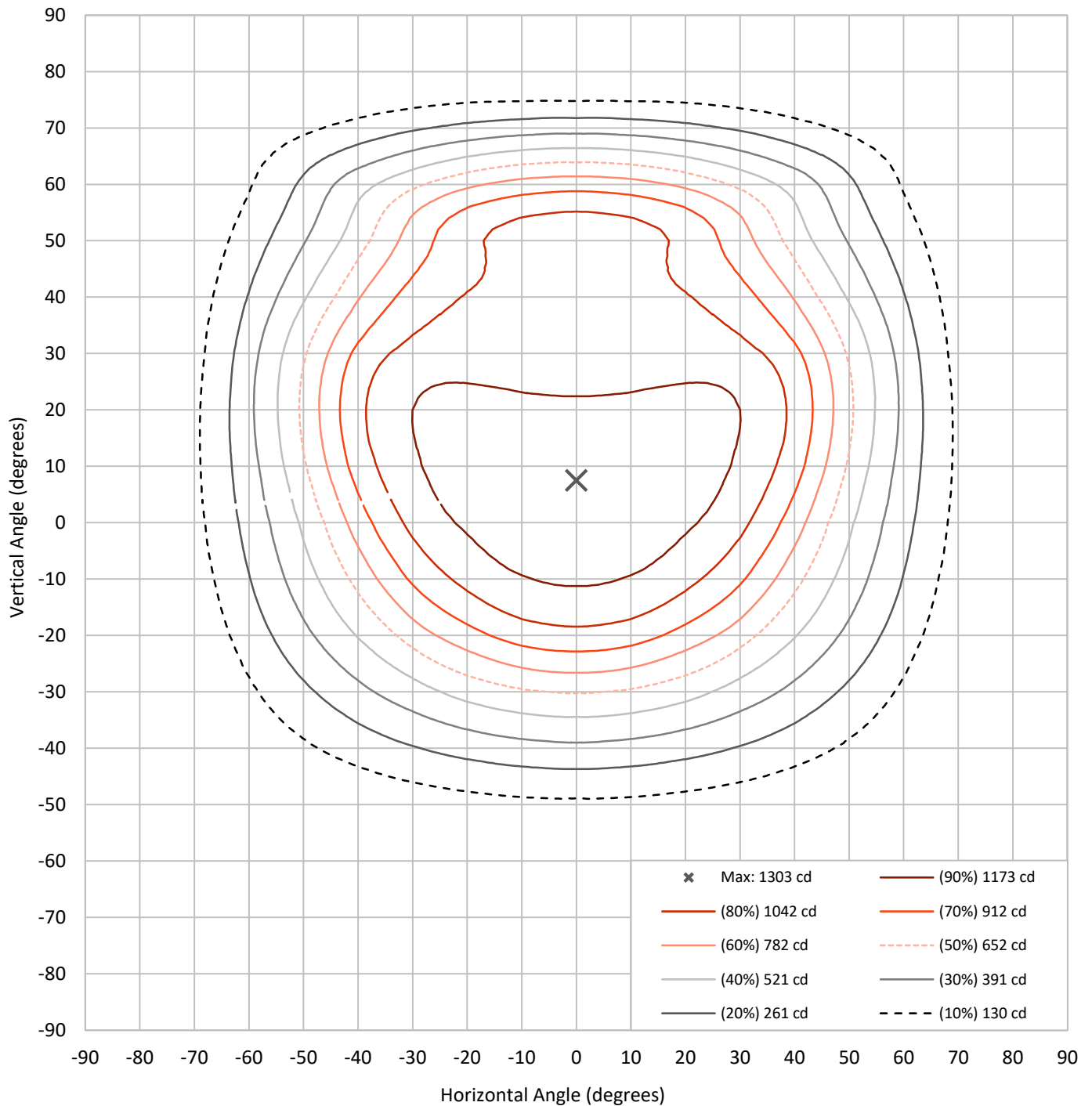
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	2802.2 lumens	Max Intensity:	1303 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 7.5°V
Efficacy:	107.8 lumens/watt		
Luminous Opening:	Rectangular (W 0.52' x L: 0.19' x H: 0')		
Beam Angle (50%):	97.6°H x 94.1°V	Field Angle (10%):	137.5°H x 123.5°V
Beam Lumens:	2173.1 lumens	Field Lumens:	2754.3 lumens
Beam Efficiency:	77.5%	Field Efficiency:	98.3%
Input Watts (W):	26		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



REPORT NUMBER: P14678
CATALOG NUMBER: XTOR3A-XTORFLD

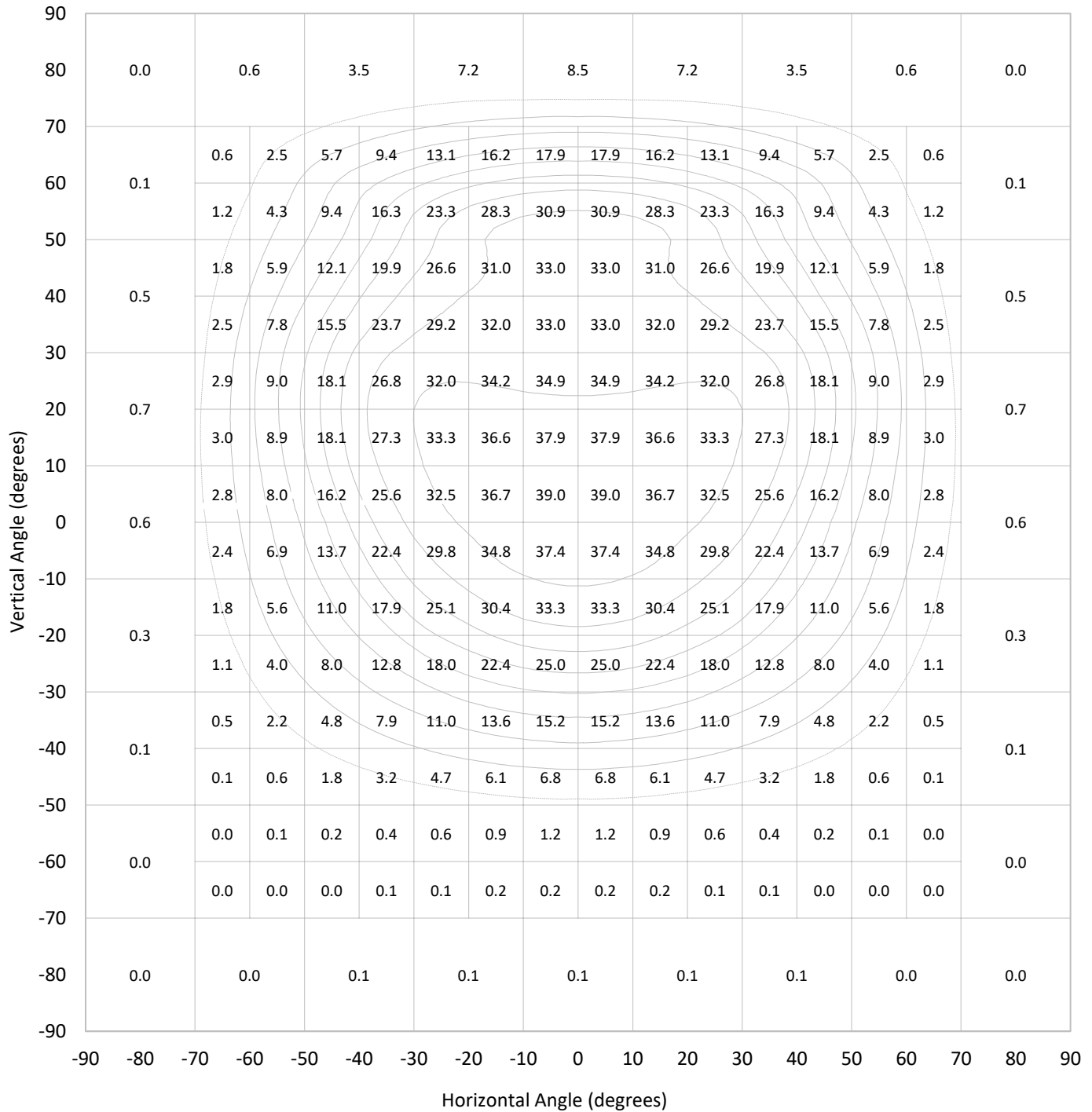
Iso-Candela Plot





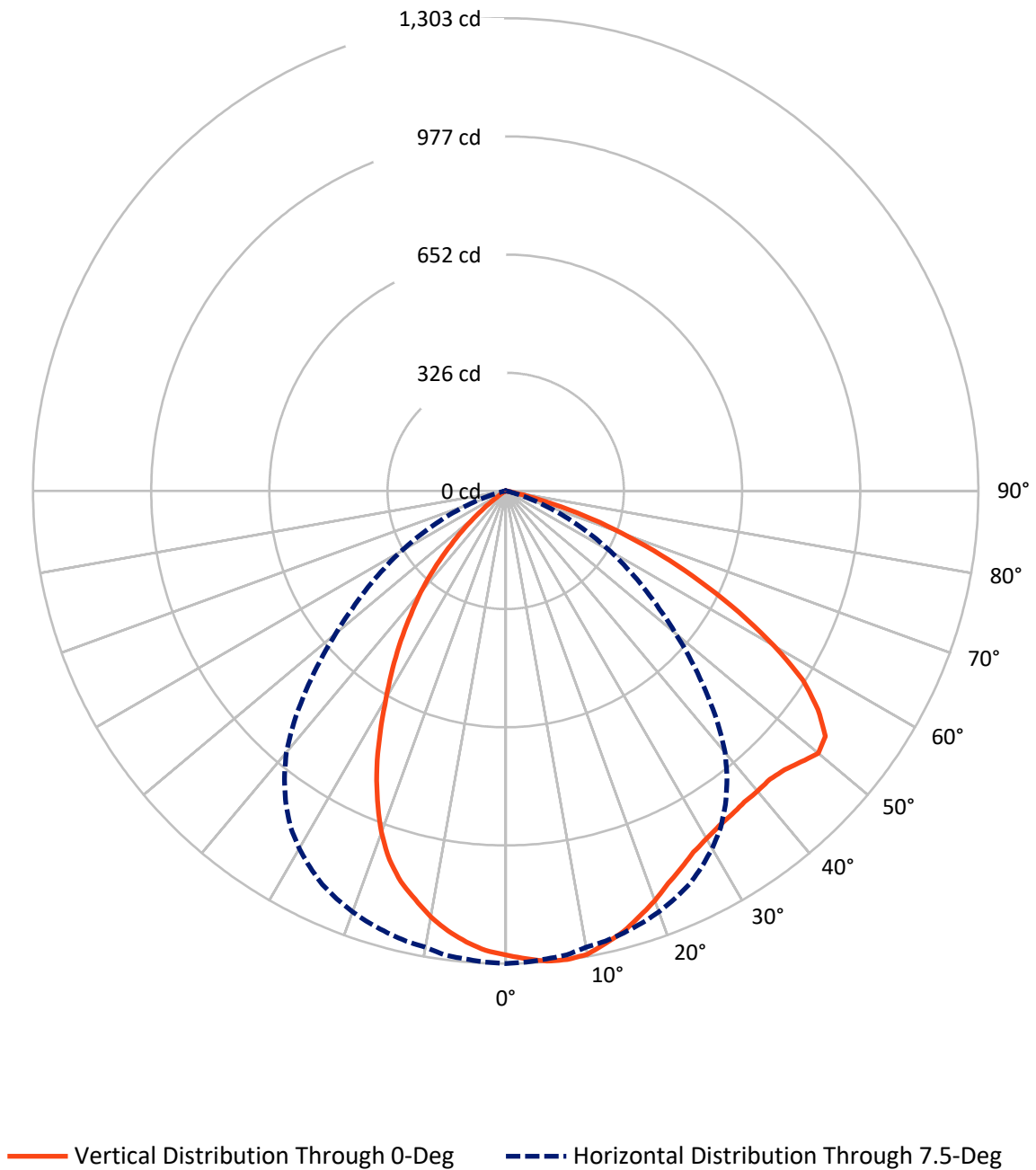
REPORT NUMBER: P14678
 CATALOG NUMBER: XTOR3A-XTORFLD

Lumen Table



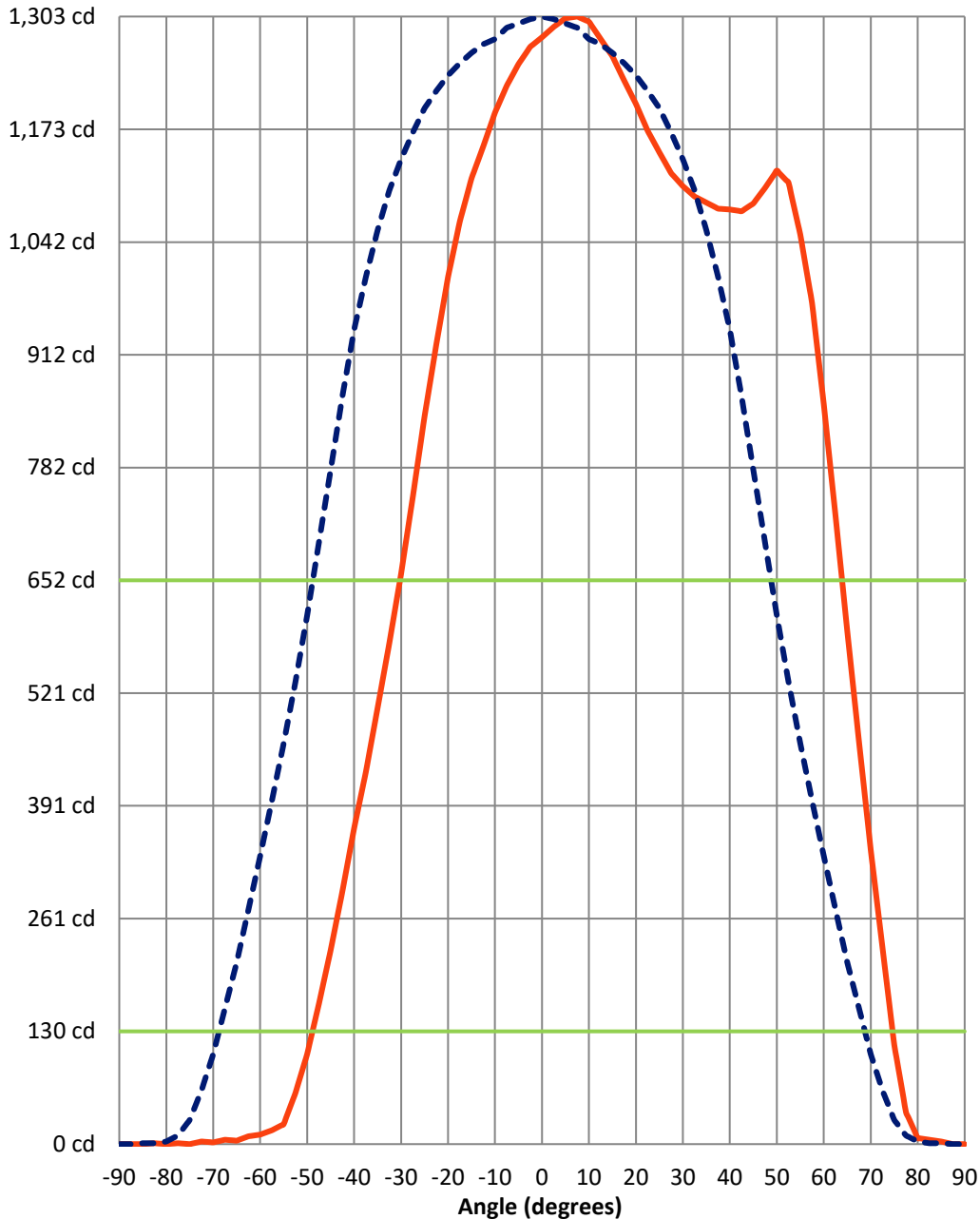
REPORT NUMBER: P14678
CATALOG NUMBER: XTOR3A-XTORFLD

Luminous Intensity Polar Plot



REPORT NUMBER: P14678
 CATALOG NUMBER: XTOR3A-XTORFLD

Luminous Intensity Plot



Beam:
 H Angle: 97.6°
 V Angle: 94.1°
 Lumens: 2173.1
 Efficiency: 77.5%

Field:
 H Angle: 137.5°
 V Angle: 123.5°
 Lumens: 2754.3
 Efficiency: 98.3%

Spill:
 Lumens: 47.9
 Efficiency: 1.7%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 7.5-Deg



REPORT NUMBER: P14678
 CATALOG NUMBER: XTOR3A-XTORFLD

FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	1
80°	0	0	0	0	0	0	0	0	1	1	1
77.5°	0	0	0	0	0	0	1	1	2	2	3
75°	0	0	0	0	0	0	1	2	3	4	6
72.5°	0	0	0	0	0	1	1	3	4	6	8
70°	0	0	0	0	0	1	2	3	5	8	19
67.5°	0	0	0	0	1	1	2	3	6	18	32
65°	0	0	0	0	1	1	2	4	13	27	44
62.5°	0	0	0	0	1	2	2	7	19	35	56
60°	0	0	0	0	1	2	3	11	25	44	66
57.5°	0	0	0	1	1	2	5	15	31	52	77
55°	0	0	0	1	1	2	7	19	37	59	87
52.5°	0	0	0	1	1	2	9	23	43	69	99
50°	0	0	0	1	2	3	10	27	49	77	111
47.5°	0	0	0	1	2	4	11	31	55	85	123
45°	0	0	0	1	2	5	14	35	62	95	135
42.5°	0	0	0	1	2	5	17	39	68	105	147
40°	0	0	1	1	2	6	20	43	74	114	158
37.5°	0	0	1	1	3	6	22	47	81	122	168
35°	0	0	1	1	3	8	24	51	87	130	179
32.5°	0	0	1	1	3	9	25	54	92	137	190
30°	0	0	1	1	3	10	28	56	96	142	200
27.5°	0	0	1	1	3	11	29	59	100	147	208
25°	0	0	1	1	4	11	30	62	103	153	214
22.5°	0	0	1	1	4	12	31	63	106	157	219
20°	0	0	1	1	3	12	31	65	108	160	221
17.5°	0	0	1	1	3	12	31	65	109	162	222
15°	0	0	1	1	3	11	31	65	109	163	221
12.5°	0	0	1	1	3	11	30	65	108	162	218
10°	0	0	1	1	3	10	29	64	106	160	214
7.5°	0	0	1	1	3	10	28	62	104	157	210
5°	0	0	1	1	3	9	27	60	102	154	205
2.5°	0	0	1	1	2	8	25	57	98	148	199
0°	0	0	1	1	2	7	23	53	93	141	191
-2.5°	0	0	1	1	2	7	21	50	88	135	183
-5°	0	0	1	1	2	6	20	47	84	130	174
-7.5°	0	0	1	1	2	6	17	43	77	120	164
-10°	0	0	1	1	2	5	15	39	70	112	153
-12.5°	0	0	1	1	2	5	13	34	64	103	143
-15°	0	0	1	1	2	5	11	30	57	93	132
-17.5°	0	0	1	1	2	4	9	26	50	83	120
-20°	0	0	1	1	2	4	8	21	44	73	108



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	0	1	1	2	3	7	17	36	62	95
-25°	0	0	2	1	2	3	6	13	29	51	82
-27.5°	0	0	1	1	2	3	5	10	22	41	70
-30°	0	0	1	2	1	3	4	6	17	33	57
-32.5°	0	0	1	2	1	2	3	4	13	26	44
-35°	0	0	1	2	1	2	3	4	9	18	31
-37.5°	0	0	1	2	1	2	3	3	6	11	22
-40°	0	0	1	2	1	2	3	3	4	7	15
-42.5°	0	0	1	3	1	2	2	3	3	6	10
-45°	0	0	1	3	1	2	2	3	3	4	6
-47.5°	0	0	1	3	1	1	2	3	3	3	4
-50°	0	0	1	2	1	1	2	2	3	2	3
-52.5°	0	0	1	2	1	1	2	2	3	2	2
-55°	0	0	0	2	2	1	1	2	2	2	2
-57.5°	0	0	0	2	2	1	1	2	2	2	2
-60°	0	0	0	1	2	1	1	1	1	1	1
-62.5°	0	0	0	1	1	1	1	1	1	0	1
-65°	0	0	0	1	1	1	1	1	1	0	1
-67.5°	0	0	0	0	1	1	1	1	1	1	1
-70°	0	0	0	0	0	1	1	1	1	1	1
-72.5°	0	0	0	0	0	0	1	1	0	1	1
-75°	0	0	0	0	0	0	1	0	0	1	1
-77.5°	0	0	0	0	0	0	0	0	0	0	1
-80°	0	0	0	0	0	0	0	0	0	0	1
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	1	1	1	1	2	2
82.5°	1	1	1	1	2	2	2	2	3	4	4
80°	2	2	3	4	5	5	5	5	4	5	7
77.5°	4	6	8	8	10	14	18	21	23	22	22
75°	8	11	17	23	29	33	38	48	55	60	66
72.5°	16	27	35	43	54	66	77	87	98	111	124
70°	32	44	59	74	89	105	123	140	156	174	193
67.5°	48	67	90	107	131	154	176	200	224	248	270
65°	65	89	117	142	179	203	236	266	296	324	351
62.5°	80	107	139	172	211	249	289	329	371	401	434
60°	92	121	157	195	240	283	334	380	424	473	507
57.5°	103	136	175	215	263	309	360	413	462	516	563
55°	117	153	194	236	285	331	382	434	487	545	601
52.5°	133	171	215	260	310	356	404	457	509	570	629
50°	148	191	236	286	335	382	431	485	536	598	659
47.5°	164	209	259	311	360	411	464	518	572	637	704
45°	179	229	282	335	387	442	498	552	615	680	744
42.5°	195	249	305	358	418	474	531	591	656	726	788
40°	210	268	327	387	448	507	567	631	700	771	834
37.5°	226	288	351	415	479	542	607	676	748	819	871
35°	240	305	376	443	512	576	645	720	798	858	912
32.5°	254	323	396	468	535	606	682	764	843	903	954
30°	266	337	413	487	558	633	716	801	879	944	993
27.5°	275	351	426	500	576	654	740	830	907	974	1026
25°	281	358	436	508	585	670	758	847	928	992	1047
22.5°	286	363	439	514	591	677	768	856	936	1007	1060
20°	289	364	438	512	591	679	768	858	941	1009	1066
17.5°	289	362	435	509	588	675	764	856	937	1008	1065
15°	287	358	429	502	580	665	754	843	926	998	1059
12.5°	282	351	420	492	569	652	739	826	910	984	1043
10°	276	341	409	479	553	633	719	806	891	965	1024
7.5°	271	333	397	463	534	611	695	779	864	941	1002
5°	264	325	387	450	516	588	668	748	832	909	975
2.5°	257	316	376	435	500	568	644	720	803	879	947
0°	247	304	362	417	480	542	613	685	766	842	911
-2.5°	238	294	352	405	465	526	592	662	735	809	877
-5°	227	282	339	389	447	506	567	632	698	769	837
-7.5°	216	269	325	374	428	484	542	602	665	731	798
-10°	203	255	309	358	409	462	516	571	629	692	756
-12.5°	190	240	291	340	389	438	489	542	595	650	710
-15°	176	223	272	320	366	413	461	511	560	609	661
-17.5°	161	206	252	298	342	387	432	480	524	568	616
-20°	145	188	231	274	315	359	401	443	486	528	569



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	128	169	209	250	289	329	368	408	446	486	523
-25°	112	149	188	225	261	298	335	371	406	443	477
-27.5°	97	129	164	199	233	266	301	335	367	399	431
-30°	82	108	141	172	204	235	265	297	328	357	386
-32.5°	67	88	118	147	175	203	229	259	286	314	339
-35°	52	71	95	121	146	171	196	220	245	270	294
-37.5°	38	55	71	97	118	140	164	183	205	228	247
-40°	25	39	53	72	92	110	129	147	165	183	202
-42.5°	13	25	36	47	65	80	96	112	127	141	156
-45°	9	14	20	30	39	53	66	78	91	104	114
-47.5°	6	6	11	16	21	29	38	49	57	67	77
-50°	5	5	4	8	10	13	16	24	29	36	40
-52.5°	4	6	4	4	5	7	6	8	12	15	19
-55°	2	4	5	3	4	4	5	4	3	6	8
-57.5°	1	2	4	4	3	3	4	5	4	4	3
-60°	1	1	2	3	3	3	3	4	4	5	4
-62.5°	1	1	1	1	2	3	3	3	3	3	4
-65°	1	1	1	1	0	1	2	3	3	3	2
-67.5°	2	2	2	1	1	1	1	1	2	2	2
-70°	1	4	4	2	1	1	1	1	0	1	1
-72.5°	1	2	3	2	1	1	1	1	1	1	1
-75°	1	0	1	1	1	2	1	1	0	1	1
-77.5°	1	1	1	1	1	0	1	1	0	0	0
-80°	1	2	1	1	1	0	1	1	1	0	0
-82.5°	1	1	1	1	0	0	1	2	1	1	1
-85°	0	0	0	0	0	0	0	1	1	1	1
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	2	3	4	3	2	3	3	3	3	2	2
82.5°	3	4	5	5	4	5	5	5	5	5	5
80°	8	10	11	10	9	9	8	8	8	7	6
77.5°	26	31	36	38	40	42	42	42	41	40	39
75°	73	80	87	95	101	106	111	113	114	115	116
72.5°	135	146	157	169	180	189	197	204	211	216	220
70°	210	227	243	257	270	283	295	305	315	322	328
67.5°	292	313	333	351	369	387	402	416	429	440	449
65°	377	404	429	455	477	497	516	533	549	563	575
62.5°	466	495	526	554	580	605	631	655	675	691	705
60°	547	587	620	656	691	724	752	777	797	815	829
57.5°	615	659	708	750	792	829	859	884	906	924	940
55°	662	717	779	824	870	907	941	969	990	1009	1024
52.5°	697	756	815	869	915	952	992	1019	1043	1062	1078
50°	726	784	839	887	933	971	1008	1038	1062	1078	1093
47.5°	761	813	863	907	947	980	1010	1034	1056	1071	1083
45°	799	850	895	933	966	993	1017	1036	1053	1065	1074
42.5°	842	888	928	962	991	1013	1032	1045	1059	1068	1073
40°	880	923	959	988	1014	1035	1049	1059	1068	1073	1075
37.5°	917	958	991	1016	1038	1054	1065	1073	1078	1080	1081
35°	956	992	1022	1044	1062	1074	1083	1087	1087	1089	1090
32.5°	994	1025	1052	1070	1084	1093	1099	1102	1104	1103	1101
30°	1034	1062	1085	1101	1109	1114	1119	1120	1119	1116	1113
27.5°	1065	1097	1119	1132	1140	1145	1143	1140	1138	1134	1131
25°	1090	1122	1145	1161	1171	1173	1169	1166	1162	1158	1153
22.5°	1103	1137	1163	1184	1192	1196	1198	1194	1189	1185	1178
20°	1110	1145	1173	1192	1205	1214	1218	1219	1217	1216	1212
17.5°	1108	1145	1174	1197	1211	1224	1233	1238	1240	1240	1238
15°	1103	1140	1170	1194	1213	1229	1240	1248	1254	1255	1257
12.5°	1090	1131	1162	1189	1212	1230	1245	1253	1260	1266	1270
10°	1075	1120	1152	1182	1208	1227	1243	1253	1262	1269	1276
7.5°	1056	1102	1138	1169	1197	1217	1235	1249	1261	1271	1277
5°	1032	1080	1120	1155	1185	1205	1224	1241	1255	1265	1277
2.5°	1007	1056	1100	1136	1168	1190	1210	1228	1245	1255	1271
0°	975	1028	1074	1114	1146	1171	1191	1211	1231	1243	1260
-2.5°	943	1000	1046	1086	1119	1146	1169	1191	1212	1226	1244
-5°	902	960	1010	1053	1089	1117	1143	1168	1190	1205	1221
-7.5°	861	920	972	1018	1055	1085	1112	1138	1163	1182	1195
-10°	820	880	931	975	1015	1048	1078	1107	1130	1150	1164
-12.5°	771	831	884	929	970	1005	1036	1064	1091	1115	1130
-15°	717	777	833	877	916	953	988	1018	1046	1068	1088
-17.5°	665	717	773	820	857	893	927	959	989	1014	1036
-20°	613	659	709	755	793	825	859	891	923	946	968



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	563	602	643	687	723	756	786	816	846	871	891
-25°	512	546	581	618	654	684	712	737	764	788	808
-27.5°	463	493	523	554	585	615	640	660	682	700	718
-30°	414	440	467	493	520	545	568	588	606	621	635
-32.5°	365	389	412	435	458	480	501	517	534	547	559
-35°	316	337	357	378	398	417	434	449	463	474	486
-37.5°	268	287	304	320	339	355	369	383	395	406	414
-40°	220	237	252	267	282	296	307	319	330	339	346
-42.5°	173	188	200	212	224	236	247	255	265	273	279
-45°	126	139	150	160	169	179	188	198	203	210	215
-47.5°	84	92	101	110	119	127	133	140	146	152	156
-50°	48	53	59	63	70	77	82	87	93	97	101
-52.5°	18	24	26	27	31	36	37	41	45	49	53
-55°	9	10	9	12	13	13	14	18	19	20	22
-57.5°	4	6	7	8	9	10	10	11	12	13	14
-60°	3	3	4	5	6	8	8	9	9	10	10
-62.5°	5	5	4	4	3	4	5	6	6	7	8
-65°	2	2	4	4	5	5	5	5	5	4	4
-67.5°	2	2	2	2	2	2	3	4	4	5	5
-70°	1	1	2	2	2	2	1	2	1	1	1
-72.5°	0	0	0	0	1	1	1	1	1	2	2
-75°	1	1	1	1	1	1	1	1	0	0	0
-77.5°	0	0	0	1	1	1	1	1	1	1	1
-80°	1	1	1	0	1	0	0	0	0	0	0
-82.5°	1	1	1	1	0	0	0	0	0	1	1
-85°	1	1	1	0	0	0	0	0	0	2	4
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	2	2	2	3	2	2	2	2	2	3	3
82.5°	5	4	4	5	4	4	5	5	5	5	5
80°	6	6	6	7	6	6	6	6	7	8	8
77.5°	39	40	39	37	39	40	39	39	40	41	42
75°	116	117	116	115	116	117	116	116	115	114	113
72.5°	224	230	229	227	229	230	224	220	216	211	204
70°	334	341	341	340	341	341	334	328	322	315	305
67.5°	455	463	464	465	464	463	455	449	440	429	416
65°	584	591	595	593	595	591	584	575	563	549	533
62.5°	715	720	726	726	726	720	715	705	691	675	655
60°	840	847	854	855	854	847	840	829	815	797	777
57.5°	952	961	970	972	970	961	952	940	924	906	884
55°	1036	1044	1050	1051	1050	1044	1036	1024	1009	990	969
52.5°	1091	1101	1108	1111	1108	1101	1091	1078	1062	1043	1019
50°	1108	1116	1122	1125	1122	1116	1108	1093	1078	1062	1038
47.5°	1093	1099	1103	1105	1103	1099	1093	1083	1071	1056	1034
45°	1078	1082	1085	1087	1085	1082	1078	1074	1065	1053	1036
42.5°	1075	1077	1077	1078	1077	1077	1075	1073	1068	1059	1045
40°	1077	1078	1078	1080	1078	1078	1077	1075	1073	1068	1059
37.5°	1081	1080	1080	1081	1080	1080	1081	1081	1080	1078	1073
35°	1089	1087	1086	1088	1086	1087	1089	1090	1089	1087	1087
32.5°	1098	1094	1094	1095	1094	1094	1098	1101	1103	1104	1102
30°	1110	1106	1105	1107	1105	1106	1110	1113	1116	1119	1120
27.5°	1127	1122	1121	1122	1121	1122	1127	1131	1134	1138	1140
25°	1148	1145	1146	1146	1146	1145	1148	1153	1158	1162	1166
22.5°	1176	1174	1171	1171	1171	1174	1176	1178	1185	1189	1194
20°	1207	1203	1201	1202	1201	1203	1207	1212	1216	1217	1219
17.5°	1234	1231	1229	1229	1229	1231	1234	1238	1240	1240	1238
15°	1258	1257	1256	1257	1256	1257	1258	1257	1255	1254	1248
12.5°	1273	1274	1275	1277	1275	1274	1273	1270	1266	1260	1253
10°	1280	1287	1292	1297	1292	1287	1280	1276	1269	1262	1253
7.5°	1290	1295	1300	1303	1300	1295	1290	1277	1271	1261	1249
5°	1288	1295	1298	1301	1298	1295	1288	1277	1265	1255	1241
2.5°	1281	1288	1290	1291	1290	1288	1281	1271	1255	1245	1228
0°	1270	1276	1280	1279	1280	1276	1270	1260	1243	1231	1211
-2.5°	1254	1260	1265	1268	1265	1260	1254	1244	1226	1212	1191
-5°	1235	1242	1246	1248	1246	1242	1235	1221	1205	1190	1168
-7.5°	1207	1217	1222	1223	1222	1217	1207	1195	1182	1163	1138
-10°	1175	1185	1191	1192	1191	1185	1175	1164	1150	1130	1107
-12.5°	1142	1148	1153	1153	1153	1148	1142	1130	1115	1091	1064
-15°	1100	1109	1115	1116	1115	1109	1100	1088	1068	1046	1018
-17.5°	1047	1057	1064	1066	1064	1057	1047	1036	1014	989	959
-20°	982	993	1000	1002	1000	993	982	968	946	923	891



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	906	917	922	924	922	917	906	891	871	846	816
-25°	823	834	841	841	841	834	823	808	788	764	737
-27.5°	733	742	748	748	748	742	733	718	700	682	660
-30°	645	651	659	659	659	651	645	635	621	606	588
-32.5°	568	574	581	579	581	574	568	559	547	534	517
-35°	495	501	505	504	505	501	495	486	474	463	449
-37.5°	421	426	431	430	431	426	421	414	406	395	383
-40°	352	357	363	365	363	357	352	346	339	330	319
-42.5°	284	288	293	292	293	288	284	279	273	265	255
-45°	220	223	225	224	225	223	220	215	210	203	198
-47.5°	159	161	163	162	163	161	159	156	152	146	140
-50°	103	106	107	104	107	106	103	101	97	93	87
-52.5°	55	57	59	59	59	57	55	53	49	45	41
-55°	23	23	23	23	23	23	23	22	20	19	18
-57.5°	15	15	15	16	15	15	15	14	13	12	11
-60°	11	11	11	11	11	11	11	10	10	9	9
-62.5°	8	9	9	9	9	9	8	8	7	6	6
-65°	4	4	4	4	4	4	4	4	4	5	5
-67.5°	5	5	5	5	5	5	5	5	5	4	4
-70°	1	2	2	2	2	2	1	1	1	1	2
-72.5°	2	2	2	3	2	2	2	2	2	1	1
-75°	0	0	0	0	0	0	0	0	0	0	1
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	0	1	1	0	1	1	0	0	0	0	0
-82.5°	1	1	1	1	1	1	1	1	1	0	0
-85°	2	0	0	0	0	0	2	4	2	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	3	3	2	3	4	3	2	2	2	1	1
82.5°	5	5	4	5	5	4	3	4	4	3	2
80°	8	9	9	10	11	10	8	7	5	4	5
77.5°	42	42	40	38	36	31	26	22	22	23	21
75°	111	106	101	95	87	80	73	66	60	55	48
72.5°	197	189	180	169	157	146	135	124	111	98	87
70°	295	283	270	257	243	227	210	193	174	156	140
67.5°	402	387	369	351	333	313	292	270	248	224	200
65°	516	497	477	455	429	404	377	351	324	296	266
62.5°	631	605	580	554	526	495	466	434	401	371	329
60°	752	724	691	656	620	587	547	507	473	424	380
57.5°	859	829	792	750	708	659	615	563	516	462	413
55°	941	907	870	824	779	717	662	601	545	487	434
52.5°	992	952	915	869	815	756	697	629	570	509	457
50°	1008	971	933	887	839	784	726	659	598	536	485
47.5°	1010	980	947	907	863	813	761	704	637	572	518
45°	1017	993	966	933	895	850	799	744	680	615	552
42.5°	1032	1013	991	962	928	888	842	788	726	656	591
40°	1049	1035	1014	988	959	923	880	834	771	700	631
37.5°	1065	1054	1038	1016	991	958	917	871	819	748	676
35°	1083	1074	1062	1044	1022	992	956	912	858	798	720
32.5°	1099	1093	1084	1070	1052	1025	994	954	903	843	764
30°	1119	1114	1109	1101	1085	1062	1034	993	944	879	801
27.5°	1143	1145	1140	1132	1119	1097	1065	1026	974	907	830
25°	1169	1173	1171	1161	1145	1122	1090	1047	992	928	847
22.5°	1198	1196	1192	1184	1163	1137	1103	1060	1007	936	856
20°	1218	1214	1205	1192	1173	1145	1110	1066	1009	941	858
17.5°	1233	1224	1211	1197	1174	1145	1108	1065	1008	937	856
15°	1240	1229	1213	1194	1170	1140	1103	1059	998	926	843
12.5°	1245	1230	1212	1189	1162	1131	1090	1043	984	910	826
10°	1243	1227	1208	1182	1152	1120	1075	1024	965	891	806
7.5°	1235	1217	1197	1169	1138	1102	1056	1002	941	864	779
5°	1224	1205	1185	1155	1120	1080	1032	975	909	832	748
2.5°	1210	1190	1168	1136	1100	1056	1007	947	879	803	720
0°	1191	1171	1146	1114	1074	1028	975	911	842	766	685
-2.5°	1169	1146	1119	1086	1046	1000	943	877	809	735	662
-5°	1143	1117	1089	1053	1010	960	902	837	769	698	632
-7.5°	1112	1085	1055	1018	972	920	861	798	731	665	602
-10°	1078	1048	1015	975	931	880	820	756	692	629	571
-12.5°	1036	1005	970	929	884	831	771	710	650	595	542
-15°	988	953	916	877	833	777	717	661	609	560	511
-17.5°	927	893	857	820	773	717	665	616	568	524	480
-20°	859	825	793	755	709	659	613	569	528	486	443



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	786	756	723	687	643	602	563	523	486	446	408
-25°	712	684	654	618	581	546	512	477	443	406	371
-27.5°	640	615	585	554	523	493	463	431	399	367	335
-30°	568	545	520	493	467	440	414	386	357	328	297
-32.5°	501	480	458	435	412	389	365	339	314	286	259
-35°	434	417	398	378	357	337	316	294	270	245	220
-37.5°	369	355	339	320	304	287	268	247	228	205	183
-40°	307	296	282	267	252	237	220	202	183	165	147
-42.5°	247	236	224	212	200	188	173	156	141	127	112
-45°	188	179	169	160	150	139	126	114	104	91	78
-47.5°	133	127	119	110	101	92	84	77	67	57	49
-50°	82	77	70	63	59	53	48	40	36	29	24
-52.5°	37	36	31	27	26	24	18	19	15	12	8
-55°	14	13	13	12	9	10	9	8	6	3	4
-57.5°	10	10	9	8	7	6	4	3	4	4	5
-60°	8	8	6	5	4	3	3	4	5	4	4
-62.5°	5	4	3	4	4	5	5	4	3	3	3
-65°	5	5	5	4	4	2	2	2	3	3	3
-67.5°	3	2	2	2	2	2	2	2	2	2	1
-70°	1	2	2	2	2	1	1	1	1	0	1
-72.5°	1	1	1	0	0	0	0	1	1	1	1
-75°	1	1	1	1	1	1	1	1	1	0	1
-77.5°	1	1	1	1	0	0	0	0	0	0	1
-80°	0	0	1	0	1	1	1	0	0	1	1
-82.5°	0	0	0	1	1	1	1	1	1	1	2
-85°	0	0	0	0	1	1	1	1	1	1	1
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	1	1	0	0	0	0	0	0	0	0	0
82.5°	2	2	2	1	1	1	1	1	0	0	0
80°	5	5	5	4	3	2	2	1	1	1	0
77.5°	18	14	10	8	8	6	4	3	2	2	1
75°	38	33	29	23	17	11	8	6	4	3	2
72.5°	77	66	54	43	35	27	16	8	6	4	3
70°	123	105	89	74	59	44	32	19	8	5	3
67.5°	176	154	131	107	90	67	48	32	18	6	3
65°	236	203	179	142	117	89	65	44	27	13	4
62.5°	289	249	211	172	139	107	80	56	35	19	7
60°	334	283	240	195	157	121	92	66	44	25	11
57.5°	360	309	263	215	175	136	103	77	52	31	15
55°	382	331	285	236	194	153	117	87	59	37	19
52.5°	404	356	310	260	215	171	133	99	69	43	23
50°	431	382	335	286	236	191	148	111	77	49	27
47.5°	464	411	360	311	259	209	164	123	85	55	31
45°	498	442	387	335	282	229	179	135	95	62	35
42.5°	531	474	418	358	305	249	195	147	105	68	39
40°	567	507	448	387	327	268	210	158	114	74	43
37.5°	607	542	479	415	351	288	226	168	122	81	47
35°	645	576	512	443	376	305	240	179	130	87	51
32.5°	682	606	535	468	396	323	254	190	137	92	54
30°	716	633	558	487	413	337	266	200	142	96	56
27.5°	740	654	576	500	426	351	275	208	147	100	59
25°	758	670	585	508	436	358	281	214	153	103	62
22.5°	768	677	591	514	439	363	286	219	157	106	63
20°	768	679	591	512	438	364	289	221	160	108	65
17.5°	764	675	588	509	435	362	289	222	162	109	65
15°	754	665	580	502	429	358	287	221	163	109	65
12.5°	739	652	569	492	420	351	282	218	162	108	65
10°	719	633	553	479	409	341	276	214	160	106	64
7.5°	695	611	534	463	397	333	271	210	157	104	62
5°	668	588	516	450	387	325	264	205	154	102	60
2.5°	644	568	500	435	376	316	257	199	148	98	57
0°	613	542	480	417	362	304	247	191	141	93	53
-2.5°	592	526	465	405	352	294	238	183	135	88	50
-5°	567	506	447	389	339	282	227	174	130	84	47
-7.5°	542	484	428	374	325	269	216	164	120	77	43
-10°	516	462	409	358	309	255	203	153	112	70	39
-12.5°	489	438	389	340	291	240	190	143	103	64	34
-15°	461	413	366	320	272	223	176	132	93	57	30
-17.5°	432	387	342	298	252	206	161	120	83	50	26
-20°	401	359	315	274	231	188	145	108	73	44	21



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	368	329	289	250	209	169	128	95	62	36	17
-25°	335	298	261	225	188	149	112	82	51	29	13
-27.5°	301	266	233	199	164	129	97	70	41	22	10
-30°	265	235	204	172	141	108	82	57	33	17	6
-32.5°	229	203	175	147	118	88	67	44	26	13	4
-35°	196	171	146	121	95	71	52	31	18	9	4
-37.5°	164	140	118	97	71	55	38	22	11	6	3
-40°	129	110	92	72	53	39	25	15	7	4	3
-42.5°	96	80	65	47	36	25	13	10	6	3	3
-45°	66	53	39	30	20	14	9	6	4	3	3
-47.5°	38	29	21	16	11	6	6	4	3	3	3
-50°	16	13	10	8	4	5	5	3	2	3	2
-52.5°	6	7	5	4	4	6	4	2	2	3	2
-55°	5	4	4	3	5	4	2	2	2	2	2
-57.5°	4	3	3	4	4	2	1	2	2	2	2
-60°	3	3	3	3	2	1	1	1	1	1	1
-62.5°	3	3	2	1	1	1	1	1	0	1	1
-65°	2	1	0	1	1	1	1	1	0	1	1
-67.5°	1	1	1	1	2	2	2	1	1	1	1
-70°	1	1	1	2	4	4	1	1	1	1	1
-72.5°	1	1	1	2	3	2	1	1	1	0	1
-75°	1	2	1	1	1	0	1	1	1	0	0
-77.5°	1	0	1	1	1	1	1	1	0	0	0
-80°	1	0	1	1	1	2	1	1	0	0	0
-82.5°	1	0	0	1	1	1	1	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	1	0	0	0	0	0	0
75°	1	0	0	0	0	0	0
72.5°	1	1	0	0	0	0	0
70°	2	1	0	0	0	0	0
67.5°	2	1	1	0	0	0	0
65°	2	1	1	0	0	0	0
62.5°	2	2	1	0	0	0	0
60°	3	2	1	0	0	0	0
57.5°	5	2	1	1	0	0	0
55°	7	2	1	1	0	0	0
52.5°	9	2	1	1	0	0	0
50°	10	3	2	1	0	0	0
47.5°	11	4	2	1	0	0	0
45°	14	5	2	1	0	0	0
42.5°	17	5	2	1	0	0	0
40°	20	6	2	1	1	0	0
37.5°	22	6	3	1	1	0	0
35°	24	8	3	1	1	0	0
32.5°	25	9	3	1	1	0	0
30°	28	10	3	1	1	0	0
27.5°	29	11	3	1	1	0	0
25°	30	11	4	1	1	0	0
22.5°	31	12	4	1	1	0	0
20°	31	12	3	1	1	0	0
17.5°	31	12	3	1	1	0	0
15°	31	11	3	1	1	0	0
12.5°	30	11	3	1	1	0	0
10°	29	10	3	1	1	0	0
7.5°	28	10	3	1	1	0	0
5°	27	9	3	1	1	0	0
2.5°	25	8	2	1	1	0	0
0°	23	7	2	1	1	0	0
-2.5°	21	7	2	1	1	0	0
-5°	20	6	2	1	1	0	0
-7.5°	17	6	2	1	1	0	0
-10°	15	5	2	1	1	0	0
-12.5°	13	5	2	1	1	0	0
-15°	11	5	2	1	1	0	0
-17.5°	9	4	2	1	1	0	0
-20°	8	4	2	1	1	0	0



REPORT NUMBER: P14678

CATALOG NUMBER: XTOR3A-XTORFLD

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	7	3	2	1	1	0	0
-25°	6	3	2	1	2	0	0
-27.5°	5	3	2	1	1	0	0
-30°	4	3	1	2	1	0	0
-32.5°	3	2	1	2	1	0	0
-35°	3	2	1	2	1	0	0
-37.5°	3	2	1	2	1	0	0
-40°	3	2	1	2	1	0	0
-42.5°	2	2	1	3	1	0	0
-45°	2	2	1	3	1	0	0
-47.5°	2	1	1	3	1	0	0
-50°	2	1	1	2	1	0	0
-52.5°	2	1	1	2	1	0	0
-55°	1	1	2	2	0	0	0
-57.5°	1	1	2	2	0	0	0
-60°	1	1	2	1	0	0	0
-62.5°	1	1	1	1	0	0	0
-65°	1	1	1	1	0	0	0
-67.5°	1	1	1	0	0	0	0
-70°	1	1	0	0	0	0	0
-72.5°	1	0	0	0	0	0	0
-75°	1	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)