

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: P14679-R2

Luminaire Tested: **XTOR3A-N-XTORFLD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14679-R2  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: XTOR3A-N-XTORFLD  
Description: \*\*\*THIS IS A REVISION OF P14679 TO UPDATE THE REPORT\*\*\*LUMARK  
CROSSTOUR 30W LED WALL PACK 3500K CCT  
Light Source: -  
Ballast/Driver: -

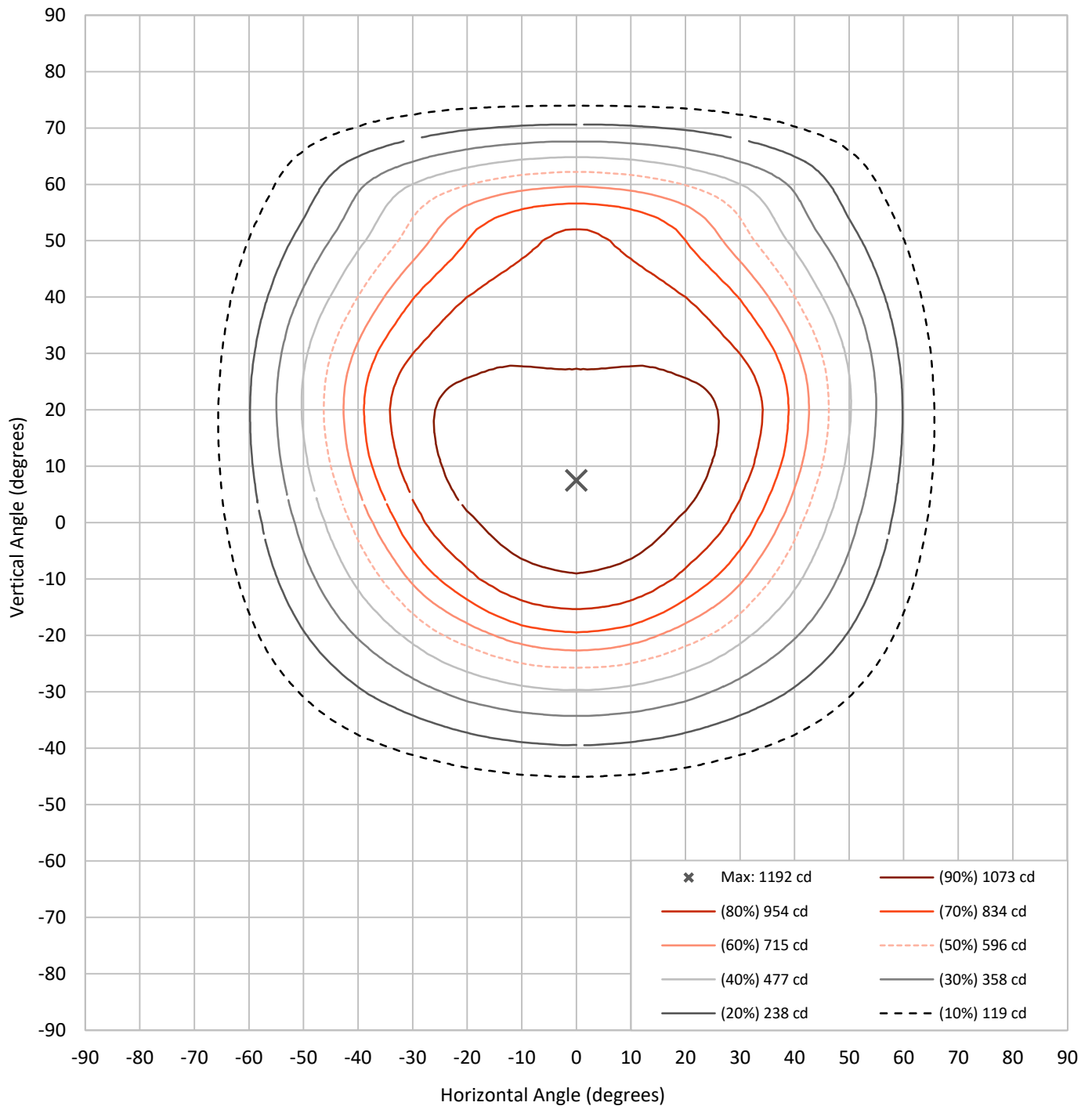
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	2283.2 lumens	Max Intensity:	1192 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 7.5°V
Efficacy:	87.8 lumens/watt		
Luminous Opening:	Rectangular (W 0.52' x L: 0.19' x H: 0')		
Beam Angle (50%):	88.5°H x 87.8°V	Field Angle (10%):	130.2°H x 118.9°V
Beam Lumens:	1703 lumens	Field Lumens:	2233.2 lumens
Beam Efficiency:	74.6%	Field Efficiency:	97.8%
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		



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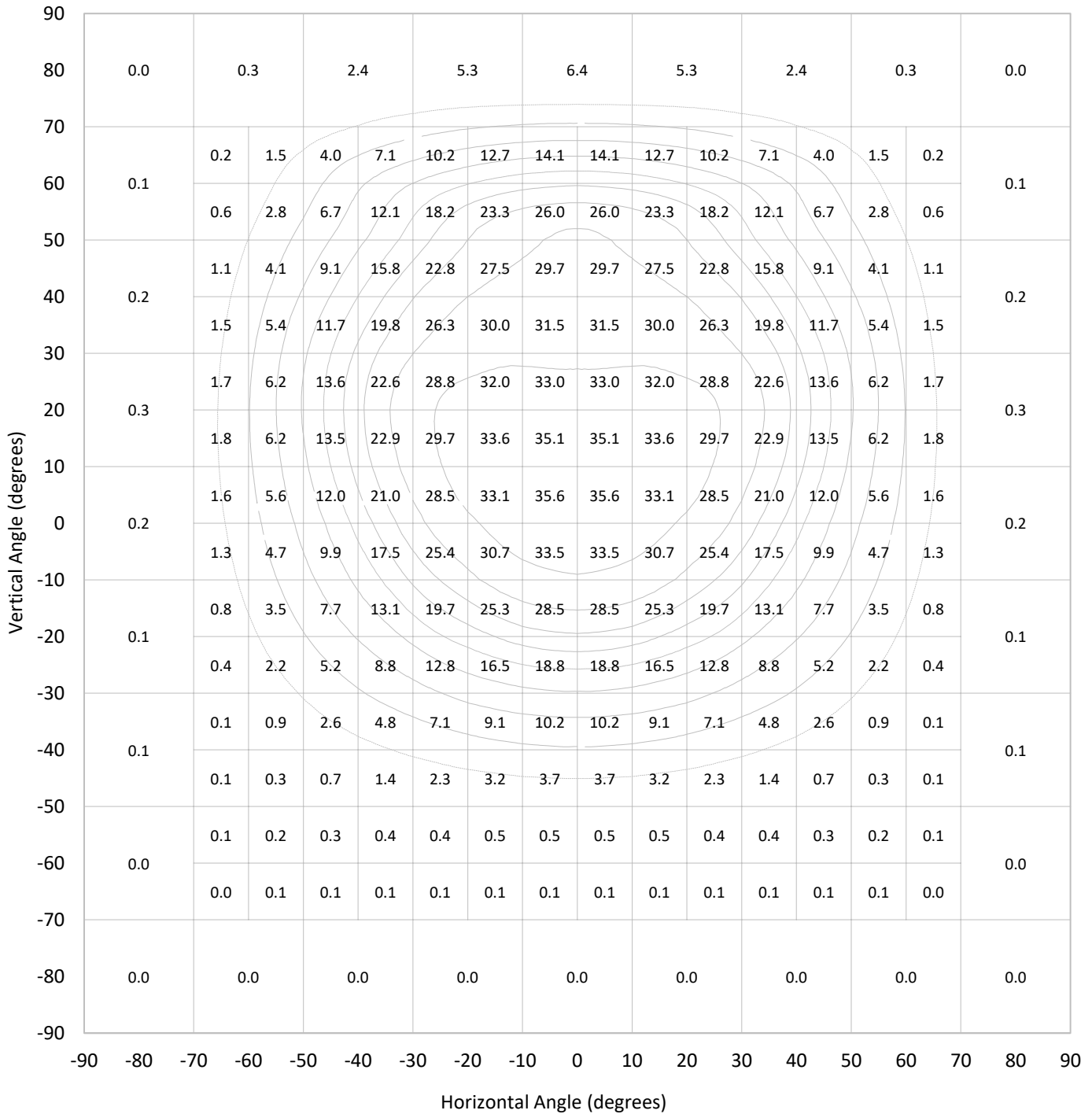
### Iso-Candela Plot





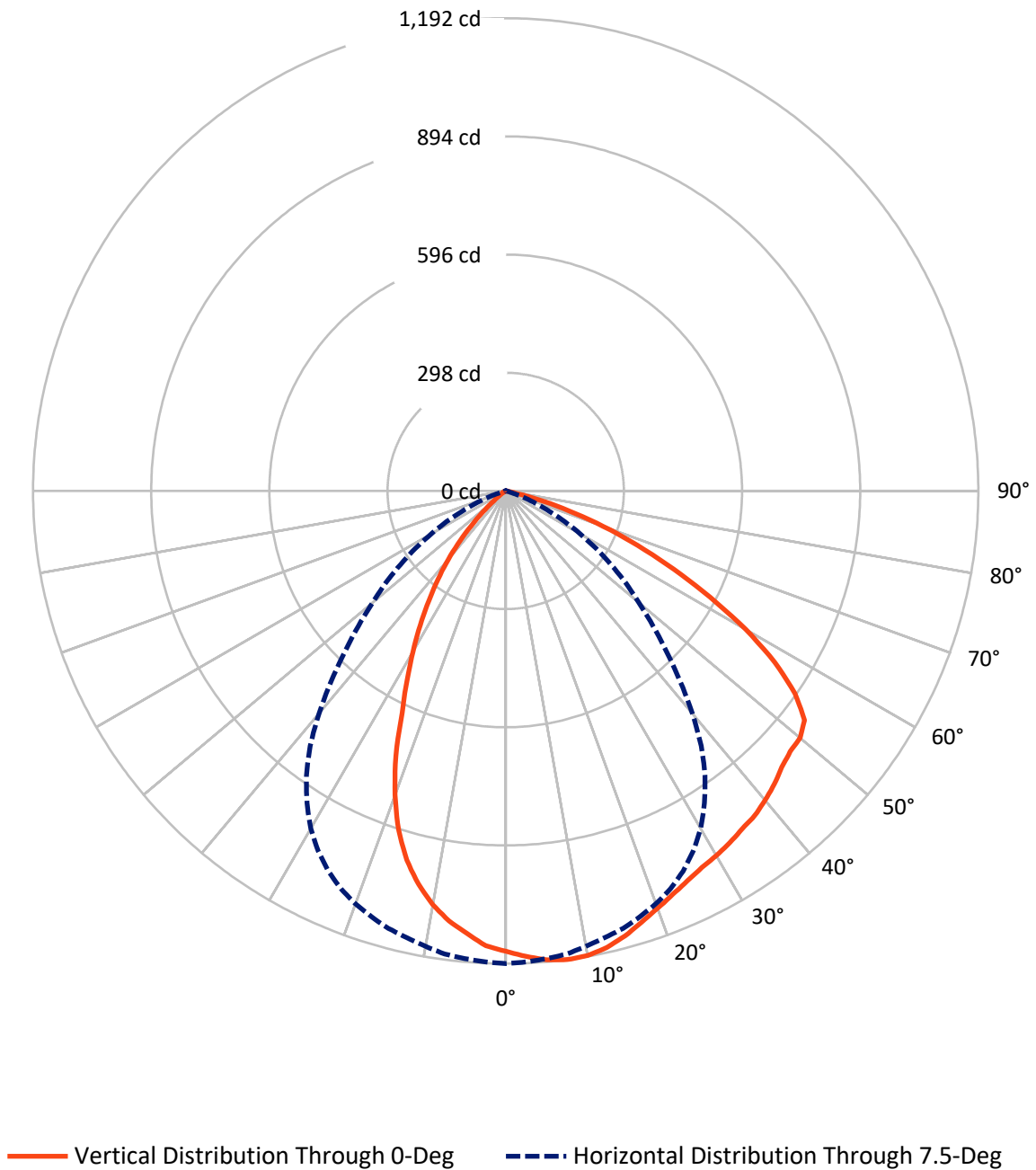
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### Lumen Table



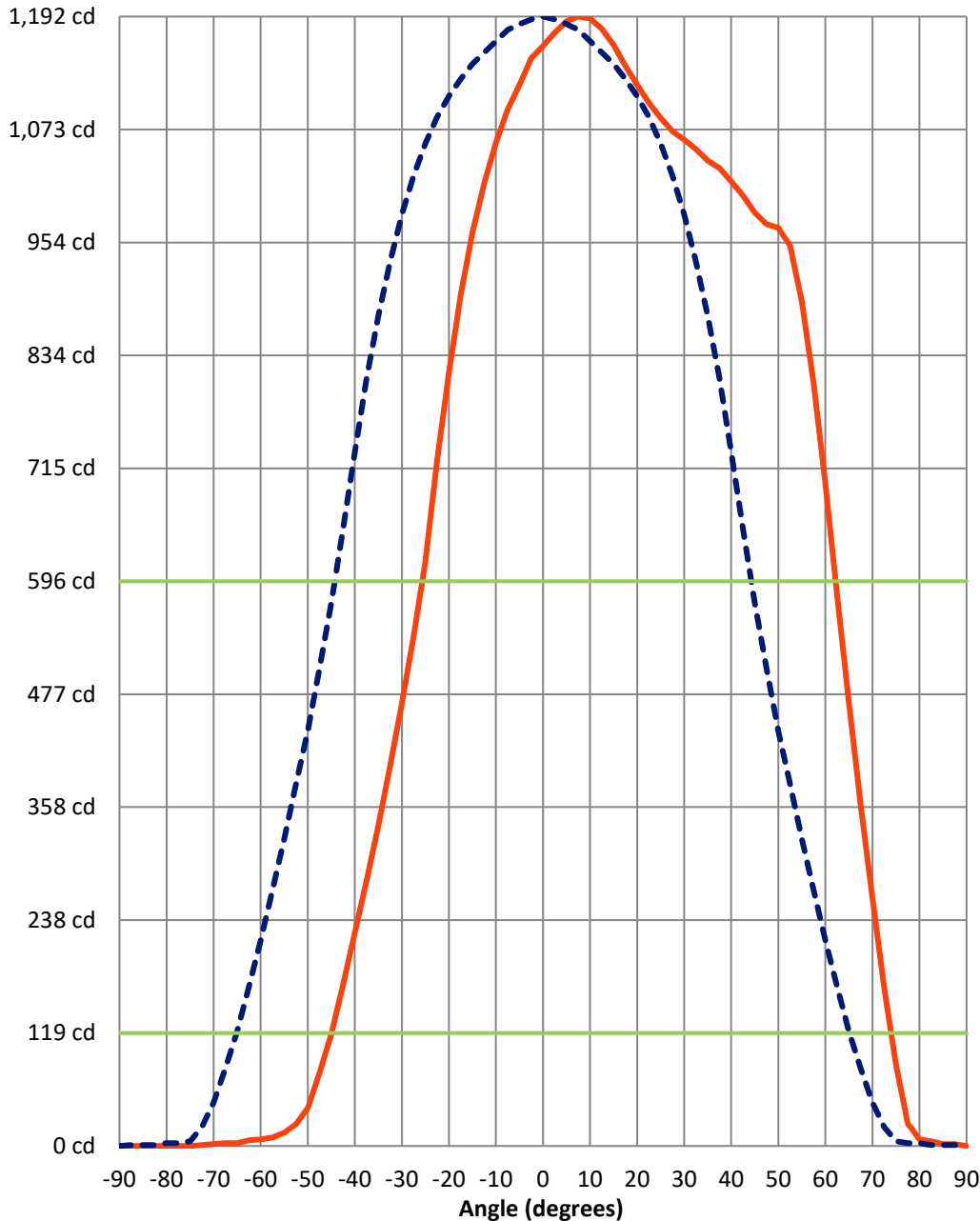
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 88.5°  
 V Angle: 87.8°  
 Lumens: 1703  
 Efficiency: 74.6%

**Field:**  
 H Angle: 130.2°  
 V Angle: 118.9°  
 Lumens: 2233.2  
 Efficiency: 97.8%

**Spill:**  
 Lumens: 50  
 Efficiency: 2.2%

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



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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	1	0	0	0	0
85°	0	0	0	0	0	0	1	1	1	1	1
82.5°	0	0	0	0	0	1	2	1	1	1	1
80°	0	0	0	0	0	1	2	1	1	1	1
77.5°	0	0	0	0	0	1	2	1	1	1	1
75°	0	0	0	0	0	1	1	1	1	2	2
72.5°	0	0	0	0	0	1	1	1	2	2	4
70°	0	0	0	0	0	1	1	2	2	3	6
67.5°	0	0	0	0	1	1	1	2	3	5	8
65°	0	0	0	0	1	1	2	3	4	6	12
62.5°	0	0	0	0	1	1	2	3	4	7	19
60°	0	0	0	0	1	2	3	4	5	12	25
57.5°	0	0	0	1	1	2	3	4	7	17	33
55°	0	0	0	1	1	2	3	4	10	21	42
52.5°	0	0	0	1	1	2	3	5	12	28	51
50°	0	0	0	1	2	2	3	6	14	34	59
47.5°	0	0	1	1	2	2	3	7	19	40	68
45°	0	0	1	1	2	2	3	8	23	47	76
42.5°	0	0	1	1	2	2	3	9	26	53	85
40°	0	1	1	1	2	3	4	12	30	59	92
37.5°	0	1	1	1	2	3	4	14	34	64	99
35°	0	1	1	1	2	3	4	15	38	70	106
32.5°	0	1	1	1	3	3	5	16	42	75	112
30°	0	1	1	1	3	3	6	17	44	78	118
27.5°	0	1	1	1	3	4	6	19	46	81	122
25°	0	1	1	1	3	3	7	21	49	85	125
22.5°	0	1	1	1	3	3	7	22	50	86	128
20°	0	1	1	1	3	3	6	23	51	88	129
17.5°	0	1	1	1	3	3	6	23	51	88	129
15°	0	1	1	1	3	3	6	22	50	88	129
12.5°	0	1	1	1	3	3	6	22	49	86	127
10°	0	1	1	1	3	3	5	21	48	84	124
7.5°	0	1	1	1	3	3	5	20	46	82	121
5°	0	1	1	1	3	3	4	18	44	79	117
2.5°	0	1	1	1	3	3	4	16	40	74	112
0°	0	1	1	1	3	3	3	14	36	69	106
-2.5°	0	1	1	1	3	3	3	13	33	64	99
-5°	0	1	1	1	3	3	3	11	30	59	92
-7.5°	0	1	1	1	4	3	3	10	26	52	83
-10°	0	1	1	1	4	3	3	8	22	45	75
-12.5°	0	1	1	1	4	3	3	7	18	39	66
-15°	0	1	1	1	4	3	3	6	15	33	58
-17.5°	0	1	1	1	4	3	3	5	12	27	49
-20°	0	1	1	1	4	4	3	5	10	22	40



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	1	1	1	4	4	3	4	8	16	31
-25°	0	1	1	1	4	4	3	4	7	11	23
-27.5°	0	1	1	1	4	4	3	4	5	9	18
-30°	0	1	0	1	3	4	4	4	5	8	14
-32.5°	0	1	0	1	3	4	4	4	5	8	11
-35°	0	1	0	1	3	4	4	4	6	7	9
-37.5°	0	1	0	1	2	4	4	4	6	8	9
-40°	0	1	0	1	2	3	4	4	7	8	9
-42.5°	0	0	0	0	2	3	3	4	7	9	9
-45°	0	0	0	0	1	2	3	4	7	9	10
-47.5°	0	0	0	0	1	2	3	3	6	8	9
-50°	0	0	0	0	1	1	2	3	4	7	8
-52.5°	0	0	0	0	1	1	2	3	3	5	7
-55°	0	0	0	0	1	1	2	2	3	4	5
-57.5°	0	0	0	0	1	1	1	2	2	3	4
-60°	0	0	0	0	1	1	1	1	2	2	3
-62.5°	0	0	0	0	1	1	1	1	2	2	2
-65°	0	0	0	0	1	1	1	1	1	2	1
-67.5°	0	0	0	0	1	1	0	1	1	1	1
-70°	0	0	0	0	1	1	0	1	1	1	0
-72.5°	0	0	0	0	1	1	0	1	2	1	0
-75°	0	0	0	0	1	1	0	1	3	2	0
-77.5°	0	0	0	0	1	1	0	1	2	2	0
-80°	0	0	0	0	1	0	0	0	1	1	0
-82.5°	0	0	0	0	1	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





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**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	1	1	1	1	1	1	1	2	1
85°	1	1	1	1	2	2	2	1	2	2	2
82.5°	1	1	2	2	2	1	2	2	2	3	3
80°	1	2	3	3	3	3	3	4	4	5	6
77.5°	2	2	3	4	4	8	10	12	14	14	13
75°	3	3	7	11	15	19	22	29	35	40	45
72.5°	6	10	15	20	30	40	49	57	67	77	88
70°	10	16	27	40	53	65	81	95	109	124	140
67.5°	15	28	42	59	80	99	120	139	160	180	199
65°	25	40	59	82	108	131	160	186	213	237	263
62.5°	34	54	77	103	132	163	195	226	264	292	323
60°	45	68	93	121	154	186	222	260	299	339	374
57.5°	55	81	108	137	172	206	247	290	329	371	413
55°	66	94	123	154	191	228	270	308	349	395	441
52.5°	78	107	139	174	213	251	291	331	375	421	467
50°	89	121	156	195	235	275	317	361	404	452	497
47.5°	99	134	173	214	256	300	346	391	438	487	538
45°	110	147	189	233	278	325	373	419	470	522	576
42.5°	120	160	204	250	301	350	398	449	503	559	617
40°	130	171	219	271	324	374	426	480	535	596	660
37.5°	139	184	234	290	345	398	455	510	571	637	700
35°	147	195	250	306	366	421	479	540	607	673	740
32.5°	155	205	263	321	380	441	503	569	640	709	780
30°	162	214	274	334	396	458	524	593	667	742	812
27.5°	168	223	283	344	408	472	539	614	691	769	840
25°	171	229	290	352	415	482	550	627	711	788	860
22.5°	174	232	294	356	420	486	557	635	718	800	873
20°	177	234	294	356	421	486	557	637	721	802	877
17.5°	178	233	293	354	418	483	554	637	717	799	873
15°	177	232	289	349	411	475	546	626	709	791	867
12.5°	175	228	285	343	403	464	535	613	695	778	854
10°	172	223	278	334	393	453	521	594	675	757	834
7.5°	168	217	270	324	382	438	504	573	651	732	810
5°	163	211	262	314	369	423	484	548	622	702	781
2.5°	158	204	253	304	356	408	466	526	596	672	750
0°	150	195	241	290	340	389	443	500	564	635	710
-2.5°	142	186	232	279	327	375	427	479	538	605	674
-5°	132	175	220	265	311	358	406	454	508	570	633
-7.5°	122	164	208	250	295	340	385	431	481	536	595
-10°	112	152	193	234	277	320	363	407	453	502	555
-12.5°	101	139	178	217	258	299	340	382	424	469	515
-15°	89	125	161	199	238	277	316	355	393	435	475
-17.5°	78	110	145	180	217	254	291	330	363	400	437
-20°	66	96	128	160	195	230	264	299	333	366	399



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CATALOG NUMBER: XTOR3A-N-XTORFLD

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	53	81	111	141	172	205	237	269	301	330	361
-25°	42	67	94	121	149	179	209	238	268	296	324
-27.5°	33	53	77	101	126	153	181	207	235	262	286
-30°	23	39	61	82	104	128	152	176	200	226	250
-32.5°	16	27	45	64	84	104	124	146	167	189	212
-35°	11	19	31	47	64	81	99	117	135	154	172
-37.5°	10	13	19	32	45	59	74	89	104	121	135
-40°	10	9	14	20	30	40	51	63	76	88	100
-42.5°	11	11	12	11	20	27	33	43	51	60	69
-45°	11	12	12	12	14	18	24	27	35	38	46
-47.5°	11	13	13	13	13	15	18	22	24	27	29
-50°	11	13	14	14	14	14	15	18	20	21	22
-52.5°	9	12	13	14	14	15	14	15	17	18	18
-55°	7	10	11	12	12	13	14	13	13	14	15
-57.5°	5	7	8	9	10	10	11	11	10	10	9
-60°	4	5	7	7	7	7	7	7	7	6	6
-62.5°	3	3	5	5	5	4	4	4	3	4	4
-65°	1	2	2	3	3	3	2	2	2	2	4
-67.5°	0	1	1	1	2	2	2	1	1	2	2
-70°	0	1	1	1	1	1	1	0	0	1	1
-72.5°	0	0	1	1	1	0	0	0	0	0	1
-75°	0	0	0	1	1	0	0	0	0	0	0
-77.5°	0	0	0	1	1	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	1	1
-85°	0	1	1	1	0	0	0	0	0	1	1
-87.5°	0	0	1	1	0	0	0	0	0	1	0
-90°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: XTOR3A-N-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°	1	2	3	2	2	2	3	2	1	1	2
85°	2	2	2	2	3	3	2	2	2	2	3
82.5°	3	4	4	4	4	4	4	4	4	4	5
80°	7	7	7	7	7	7	7	7	7	7	8
77.5°	16	20	23	25	26	27	27	27	26	26	25
75°	49	54	60	65	69	73	76	78	80	81	82
72.5°	98	107	114	123	132	139	145	151	155	160	163
70°	155	168	180	192	205	216	226	234	241	247	253
67.5°	218	236	253	269	285	299	312	323	332	341	348
65°	285	307	328	349	367	385	401	415	428	440	449
62.5°	352	379	404	430	452	473	494	513	531	546	559
60°	411	447	478	509	539	566	591	615	635	654	670
57.5°	457	498	542	578	615	649	680	708	732	754	771
55°	489	535	584	628	674	714	753	785	813	838	856
52.5°	517	565	616	666	716	761	805	839	867	893	913
50°	549	597	651	702	752	796	835	868	895	917	935
47.5°	588	640	694	744	791	830	864	891	915	933	948
45°	630	687	741	789	831	865	895	921	939	954	967
42.5°	676	735	790	832	868	900	925	946	963	976	987
40°	721	782	829	869	902	932	954	972	986	996	1004
37.5°	763	819	863	899	931	958	978	994	1005	1014	1020
35°	803	854	895	929	958	982	1000	1013	1021	1029	1033
32.5°	838	887	925	956	982	1003	1020	1030	1039	1044	1047
30°	872	917	953	982	1005	1022	1036	1047	1055	1060	1061
27.5°	898	944	980	1008	1029	1043	1056	1066	1072	1075	1074
25°	920	966	1002	1031	1053	1071	1079	1085	1090	1090	1089
22.5°	932	980	1016	1047	1073	1091	1101	1106	1109	1107	1105
20°	938	987	1023	1055	1083	1105	1116	1123	1127	1129	1129
17.5°	935	984	1023	1058	1086	1107	1124	1136	1145	1148	1148
15°	928	976	1019	1055	1083	1106	1125	1143	1154	1159	1162
12.5°	916	966	1011	1049	1080	1102	1125	1142	1154	1162	1168
10°	899	954	1000	1038	1069	1096	1122	1137	1149	1160	1170
7.5°	876	933	983	1024	1058	1086	1108	1126	1142	1154	1166
5°	849	909	962	1005	1042	1072	1095	1114	1130	1145	1159
2.5°	819	882	940	980	1021	1053	1077	1096	1115	1134	1150
0°	781	848	909	959	997	1030	1055	1076	1099	1118	1135
-2.5°	745	814	876	927	968	1002	1030	1054	1077	1097	1114
-5°	700	768	832	888	931	968	999	1027	1053	1073	1090
-7.5°	656	722	785	842	890	929	963	995	1022	1044	1060
-10°	612	674	735	790	838	881	922	958	984	1008	1025
-12.5°	565	620	681	734	781	823	864	903	937	964	982
-15°	518	567	623	674	718	758	799	841	875	904	927
-17.5°	475	517	563	611	652	689	726	764	801	832	857
-20°	432	469	506	550	588	619	651	684	715	748	775



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CATALOG NUMBER: XTOR3A-N-XTORFLD

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	391	422	455	488	524	553	578	605	632	657	678
-25°	351	377	405	434	463	489	513	534	556	573	591
-27.5°	311	335	359	383	407	430	451	470	486	502	516
-30°	270	292	314	335	355	375	393	409	424	436	447
-32.5°	231	249	269	287	305	323	340	352	363	375	384
-35°	190	207	223	240	255	271	285	298	309	318	326
-37.5°	151	166	180	194	208	221	233	245	255	262	270
-40°	113	126	138	150	161	172	182	192	200	208	214
-42.5°	79	89	98	108	117	127	135	142	149	155	161
-45°	51	58	63	71	78	85	92	98	102	108	112
-47.5°	33	35	39	43	46	51	55	58	63	67	71
-50°	24	25	26	26	28	29	28	31	35	36	38
-52.5°	19	19	19	19	20	19	19	19	20	20	21
-55°	15	15	15	15	14	14	14	14	13	13	14
-57.5°	9	10	11	10	10	10	10	9	9	9	9
-60°	5	4	4	5	5	6	6	6	6	6	6
-62.5°	4	5	3	2	2	2	3	3	4	4	6
-65°	3	2	3	3	4	4	3	2	2	2	2
-67.5°	2	1	1	1	1	2	2	2	2	2	3
-70°	1	1	1	1	0	0	1	0	0	0	1
-72.5°	0	0	0	0	0	0	1	1	0	0	0
-75°	1	1	0	0	0	0	1	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	1	0	0	0	0	0	1	1	0	0	0
-82.5°	1	1	0	0	0	0	0	0	1	1	1
-85°	1	1	0	0	0	0	0	0	0	0	1
-87.5°	0	0	1	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: XTOR3A-N-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°	2	1	1	2	1	1	2	2	1	1	2
85°	4	5	4	2	4	5	4	3	2	2	2
82.5°	5	5	5	5	5	5	5	5	4	4	4
80°	7	6	6	7	6	6	7	8	7	7	7
77.5°	24	24	24	24	24	24	24	25	26	26	27
75°	83	85	85	86	85	85	83	82	81	80	78
72.5°	164	166	166	167	166	166	164	163	160	155	151
70°	257	262	262	262	262	262	257	253	247	241	234
67.5°	353	360	360	360	360	360	353	348	341	332	323
65°	456	462	467	468	467	462	456	449	440	428	415
62.5°	569	576	582	581	582	576	569	559	546	531	513
60°	681	689	697	699	697	689	681	670	654	635	615
57.5°	784	793	802	805	802	793	784	771	754	732	708
55°	871	882	890	891	890	882	871	856	838	813	785
52.5°	931	943	950	950	950	943	931	913	893	867	839
50°	949	958	965	969	965	958	949	935	917	895	868
47.5°	960	966	970	973	970	966	960	948	933	915	891
45°	977	980	983	985	983	980	977	967	954	939	921
42.5°	994	998	1002	1003	1002	998	994	987	976	963	946
40°	1011	1014	1016	1018	1016	1014	1011	1004	996	986	972
37.5°	1025	1028	1029	1032	1029	1028	1025	1020	1014	1005	994
35°	1036	1038	1038	1040	1038	1038	1036	1033	1029	1021	1013
32.5°	1049	1050	1051	1052	1051	1050	1049	1047	1044	1039	1030
30°	1061	1060	1061	1062	1061	1060	1061	1061	1060	1055	1047
27.5°	1073	1072	1071	1071	1071	1072	1073	1074	1075	1072	1066
25°	1086	1085	1082	1085	1082	1085	1086	1089	1090	1090	1085
22.5°	1103	1102	1102	1101	1102	1102	1103	1105	1107	1109	1106
20°	1125	1122	1121	1120	1121	1122	1125	1129	1129	1127	1123
17.5°	1146	1143	1140	1140	1140	1143	1146	1148	1148	1145	1136
15°	1163	1162	1161	1162	1161	1162	1163	1162	1159	1154	1143
12.5°	1173	1175	1177	1179	1177	1175	1173	1168	1162	1154	1142
10°	1178	1183	1187	1190	1187	1183	1178	1170	1160	1149	1137
7.5°	1178	1184	1189	1192	1189	1184	1178	1166	1154	1142	1126
5°	1171	1181	1184	1187	1184	1181	1171	1159	1145	1130	1114
2.5°	1161	1170	1173	1175	1173	1170	1161	1150	1134	1115	1096
0°	1148	1156	1161	1161	1161	1156	1148	1135	1118	1099	1076
-2.5°	1126	1137	1143	1148	1143	1137	1126	1114	1097	1077	1054
-5°	1103	1112	1118	1120	1118	1112	1103	1090	1073	1053	1027
-7.5°	1073	1082	1090	1094	1090	1082	1073	1060	1044	1022	995
-10°	1038	1047	1054	1059	1054	1047	1038	1025	1008	984	958
-12.5°	999	1007	1013	1016	1013	1007	999	982	964	937	903
-15°	944	956	962	964	962	956	944	927	904	875	841
-17.5°	874	887	895	898	895	887	874	857	832	801	764
-20°	792	803	812	816	812	803	792	775	748	715	684



REPORT NUMBER: P14679-R2

CATALOG NUMBER: XTOR3A-N-XTORFLD

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	699	712	720	724	720	712	699	678	657	632	605
-25°	605	613	616	617	616	613	605	591	573	556	534
-27.5°	525	532	535	538	535	532	525	516	502	486	470
-30°	456	463	468	467	468	463	456	447	436	424	409
-32.5°	391	397	402	401	402	397	391	384	375	363	352
-35°	331	335	339	338	339	335	331	326	318	309	298
-37.5°	275	278	282	280	282	278	275	270	262	255	245
-40°	219	223	227	225	227	223	219	214	208	200	192
-42.5°	164	167	170	170	170	167	164	161	155	149	142
-45°	114	116	119	118	119	116	114	112	108	102	98
-47.5°	73	74	76	77	76	74	73	71	67	63	58
-50°	39	40	41	40	41	40	39	38	36	35	31
-52.5°	22	22	23	23	23	22	22	21	20	20	19
-55°	14	14	14	14	14	14	14	14	13	13	14
-57.5°	10	10	10	9	10	10	10	9	9	9	9
-60°	6	7	7	7	7	7	6	6	6	6	6
-62.5°	6	6	6	6	6	6	6	6	4	4	3
-65°	2	2	2	3	2	2	2	2	2	2	2
-67.5°	3	3	3	3	3	3	3	3	2	2	2
-70°	1	0	1	2	1	0	1	1	0	0	0
-72.5°	0	0	0	1	0	0	0	0	0	0	1
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	1
-82.5°	1	1	1	0	1	1	1	1	1	1	0
-85°	1	0	0	0	0	0	1	1	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: P14679-R2  
 CATALOG NUMBER: XTOR3A-N-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°	3	2	2	2	3	2	1	1	2	1	1
85°	2	3	3	2	2	2	2	2	2	2	1
82.5°	4	4	4	4	4	4	3	3	3	2	2
80°	7	7	7	7	7	7	7	6	5	4	4
77.5°	27	27	26	25	23	20	16	13	14	14	12
75°	76	73	69	65	60	54	49	45	40	35	29
72.5°	145	139	132	123	114	107	98	88	77	67	57
70°	226	216	205	192	180	168	155	140	124	109	95
67.5°	312	299	285	269	253	236	218	199	180	160	139
65°	401	385	367	349	328	307	285	263	237	213	186
62.5°	494	473	452	430	404	379	352	323	292	264	226
60°	591	566	539	509	478	447	411	374	339	299	260
57.5°	680	649	615	578	542	498	457	413	371	329	290
55°	753	714	674	628	584	535	489	441	395	349	308
52.5°	805	761	716	666	616	565	517	467	421	375	331
50°	835	796	752	702	651	597	549	497	452	404	361
47.5°	864	830	791	744	694	640	588	538	487	438	391
45°	895	865	831	789	741	687	630	576	522	470	419
42.5°	925	900	868	832	790	735	676	617	559	503	449
40°	954	932	902	869	829	782	721	660	596	535	480
37.5°	978	958	931	899	863	819	763	700	637	571	510
35°	1000	982	958	929	895	854	803	740	673	607	540
32.5°	1020	1003	982	956	925	887	838	780	709	640	569
30°	1036	1022	1005	982	953	917	872	812	742	667	593
27.5°	1056	1043	1029	1008	980	944	898	840	769	691	614
25°	1079	1071	1053	1031	1002	966	920	860	788	711	627
22.5°	1101	1091	1073	1047	1016	980	932	873	800	718	635
20°	1116	1105	1083	1055	1023	987	938	877	802	721	637
17.5°	1124	1107	1086	1058	1023	984	935	873	799	717	637
15°	1125	1106	1083	1055	1019	976	928	867	791	709	626
12.5°	1125	1102	1080	1049	1011	966	916	854	778	695	613
10°	1122	1096	1069	1038	1000	954	899	834	757	675	594
7.5°	1108	1086	1058	1024	983	933	876	810	732	651	573
5°	1095	1072	1042	1005	962	909	849	781	702	622	548
2.5°	1077	1053	1021	980	940	882	819	750	672	596	526
0°	1055	1030	997	959	909	848	781	710	635	564	500
-2.5°	1030	1002	968	927	876	814	745	674	605	538	479
-5°	999	968	931	888	832	768	700	633	570	508	454
-7.5°	963	929	890	842	785	722	656	595	536	481	431
-10°	922	881	838	790	735	674	612	555	502	453	407
-12.5°	864	823	781	734	681	620	565	515	469	424	382
-15°	799	758	718	674	623	567	518	475	435	393	355
-17.5°	726	689	652	611	563	517	475	437	400	363	330
-20°	651	619	588	550	506	469	432	399	366	333	299



REPORT NUMBER: P14679-R2

CATALOG NUMBER: XTOR3A-N-XTORFLD

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	578	553	524	488	455	422	391	361	330	301	269
-25°	513	489	463	434	405	377	351	324	296	268	238
-27.5°	451	430	407	383	359	335	311	286	262	235	207
-30°	393	375	355	335	314	292	270	250	226	200	176
-32.5°	340	323	305	287	269	249	231	212	189	167	146
-35°	285	271	255	240	223	207	190	172	154	135	117
-37.5°	233	221	208	194	180	166	151	135	121	104	89
-40°	182	172	161	150	138	126	113	100	88	76	63
-42.5°	135	127	117	108	98	89	79	69	60	51	43
-45°	92	85	78	71	63	58	51	46	38	35	27
-47.5°	55	51	46	43	39	35	33	29	27	24	22
-50°	28	29	28	26	26	25	24	22	21	20	18
-52.5°	19	19	20	19	19	19	19	18	18	17	15
-55°	14	14	14	15	15	15	15	15	14	13	13
-57.5°	10	10	10	10	11	10	9	9	10	10	11
-60°	6	6	5	5	4	4	5	6	6	7	7
-62.5°	3	2	2	2	3	5	4	4	4	3	4
-65°	3	4	4	3	3	2	3	4	2	2	2
-67.5°	2	2	1	1	1	1	2	2	2	1	1
-70°	1	0	0	1	1	1	1	1	1	0	0
-72.5°	1	0	0	0	0	0	0	1	0	0	0
-75°	1	0	0	0	0	1	1	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	1	0	0	0	0	0	1	0	0	0	0
-82.5°	0	0	0	0	0	1	1	1	1	0	0
-85°	0	0	0	0	0	1	1	1	1	0	0
-87.5°	0	0	0	0	1	0	0	0	1	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P14679-R2

CATALOG NUMBER: XTOR3A-N-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°	1	1	1	1	1	0	0	0	0	0	0
85°	2	2	2	1	1	1	1	1	1	1	1
82.5°	2	1	2	2	2	1	1	1	1	1	1
80°	3	3	3	3	3	2	1	1	1	1	1
77.5°	10	8	4	4	3	2	2	1	1	1	1
75°	22	19	15	11	7	3	3	2	2	1	1
72.5°	49	40	30	20	15	10	6	4	2	2	1
70°	81	65	53	40	27	16	10	6	3	2	2
67.5°	120	99	80	59	42	28	15	8	5	3	2
65°	160	131	108	82	59	40	25	12	6	4	3
62.5°	195	163	132	103	77	54	34	19	7	4	3
60°	222	186	154	121	93	68	45	25	12	5	4
57.5°	247	206	172	137	108	81	55	33	17	7	4
55°	270	228	191	154	123	94	66	42	21	10	4
52.5°	291	251	213	174	139	107	78	51	28	12	5
50°	317	275	235	195	156	121	89	59	34	14	6
47.5°	346	300	256	214	173	134	99	68	40	19	7
45°	373	325	278	233	189	147	110	76	47	23	8
42.5°	398	350	301	250	204	160	120	85	53	26	9
40°	426	374	324	271	219	171	130	92	59	30	12
37.5°	455	398	345	290	234	184	139	99	64	34	14
35°	479	421	366	306	250	195	147	106	70	38	15
32.5°	503	441	380	321	263	205	155	112	75	42	16
30°	524	458	396	334	274	214	162	118	78	44	17
27.5°	539	472	408	344	283	223	168	122	81	46	19
25°	550	482	415	352	290	229	171	125	85	49	21
22.5°	557	486	420	356	294	232	174	128	86	50	22
20°	557	486	421	356	294	234	177	129	88	51	23
17.5°	554	483	418	354	293	233	178	129	88	51	23
15°	546	475	411	349	289	232	177	129	88	50	22
12.5°	535	464	403	343	285	228	175	127	86	49	22
10°	521	453	393	334	278	223	172	124	84	48	21
7.5°	504	438	382	324	270	217	168	121	82	46	20
5°	484	423	369	314	262	211	163	117	79	44	18
2.5°	466	408	356	304	253	204	158	112	74	40	16
0°	443	389	340	290	241	195	150	106	69	36	14
-2.5°	427	375	327	279	232	186	142	99	64	33	13
-5°	406	358	311	265	220	175	132	92	59	30	11
-7.5°	385	340	295	250	208	164	122	83	52	26	10
-10°	363	320	277	234	193	152	112	75	45	22	8
-12.5°	340	299	258	217	178	139	101	66	39	18	7
-15°	316	277	238	199	161	125	89	58	33	15	6
-17.5°	291	254	217	180	145	110	78	49	27	12	5
-20°	264	230	195	160	128	96	66	40	22	10	5



REPORT NUMBER: P14679-R2

CATALOG NUMBER: XTOR3A-N-XTORFLD

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	237	205	172	141	111	81	53	31	16	8	4
-25°	209	179	149	121	94	67	42	23	11	7	4
-27.5°	181	153	126	101	77	53	33	18	9	5	4
-30°	152	128	104	82	61	39	23	14	8	5	4
-32.5°	124	104	84	64	45	27	16	11	8	5	4
-35°	99	81	64	47	31	19	11	9	7	6	4
-37.5°	74	59	45	32	19	13	10	9	8	6	4
-40°	51	40	30	20	14	9	10	9	8	7	4
-42.5°	33	27	20	11	12	11	11	9	9	7	4
-45°	24	18	14	12	12	12	11	10	9	7	4
-47.5°	18	15	13	13	13	13	11	9	8	6	3
-50°	15	14	14	14	14	13	11	8	7	4	3
-52.5°	14	15	14	14	13	12	9	7	5	3	3
-55°	14	13	12	12	11	10	7	5	4	3	2
-57.5°	11	10	10	9	8	7	5	4	3	2	2
-60°	7	7	7	7	7	5	4	3	2	2	1
-62.5°	4	4	5	5	5	3	3	2	2	2	1
-65°	2	3	3	3	2	2	1	1	2	1	1
-67.5°	2	2	2	1	1	1	0	1	1	1	1
-70°	1	1	1	1	1	1	0	0	1	1	1
-72.5°	0	0	1	1	1	0	0	0	1	2	1
-75°	0	0	1	1	0	0	0	0	2	3	1
-77.5°	0	0	1	1	0	0	0	0	2	2	1
-80°	0	0	0	0	0	0	0	0	1	1	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	1	1	1	0	0	0	0	0
-87.5°	0	0	0	1	1	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P14679-R2

CATALOG NUMBER: XTOR3A-N-XTORFLD

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	1	0	0	0	0	0	0
85°	1	0	0	0	0	0	0
82.5°	2	1	0	0	0	0	0
80°	2	1	0	0	0	0	0
77.5°	2	1	0	0	0	0	0
75°	1	1	0	0	0	0	0
72.5°	1	1	0	0	0	0	0
70°	1	1	0	0	0	0	0
67.5°	1	1	1	0	0	0	0
65°	2	1	1	0	0	0	0
62.5°	2	1	1	0	0	0	0
60°	3	2	1	0	0	0	0
57.5°	3	2	1	1	0	0	0
55°	3	2	1	1	0	0	0
52.5°	3	2	1	1	0	0	0
50°	3	2	2	1	0	0	0
47.5°	3	2	2	1	1	0	0
45°	3	2	2	1	1	0	0
42.5°	3	2	2	1	1	0	0
40°	4	3	2	1	1	1	0
37.5°	4	3	2	1	1	1	0
35°	4	3	2	1	1	1	0
32.5°	5	3	3	1	1	1	0
30°	6	3	3	1	1	1	0
27.5°	6	4	3	1	1	1	0
25°	7	3	3	1	1	1	0
22.5°	7	3	3	1	1	1	0
20°	6	3	3	1	1	1	0
17.5°	6	3	3	1	1	1	0
15°	6	3	3	1	1	1	0
12.5°	6	3	3	1	1	1	0
10°	5	3	3	1	1	1	0
7.5°	5	3	3	1	1	1	0
5°	4	3	3	1	1	1	0
2.5°	4	3	3	1	1	1	0
0°	3	3	3	1	1	1	0
-2.5°	3	3	3	1	1	1	0
-5°	3	3	3	1	1	1	0
-7.5°	3	3	4	1	1	1	0
-10°	3	3	4	1	1	1	0
-12.5°	3	3	4	1	1	1	0
-15°	3	3	4	1	1	1	0
-17.5°	3	3	4	1	1	1	0
-20°	3	4	4	1	1	1	0



REPORT NUMBER: P14679-R2

CATALOG NUMBER: XTOR3A-N-XTORFLD

**CANDELA DISTRIBUTION (continued):**

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