

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: P132876

Luminaire Tested: **XTOR2A-N-WT-XTORFLD+VISOR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P132876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P132875)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR2A-N-WT-XTORFLD+VISOR
Description: LUMARK CROSSTOUR 20W LED WALL PACK WITH WHITE HOUSING HOUSING
Light Source: [1] 3500K LED
Ballast/Driver: [1] ELECTRONIC DRIVER

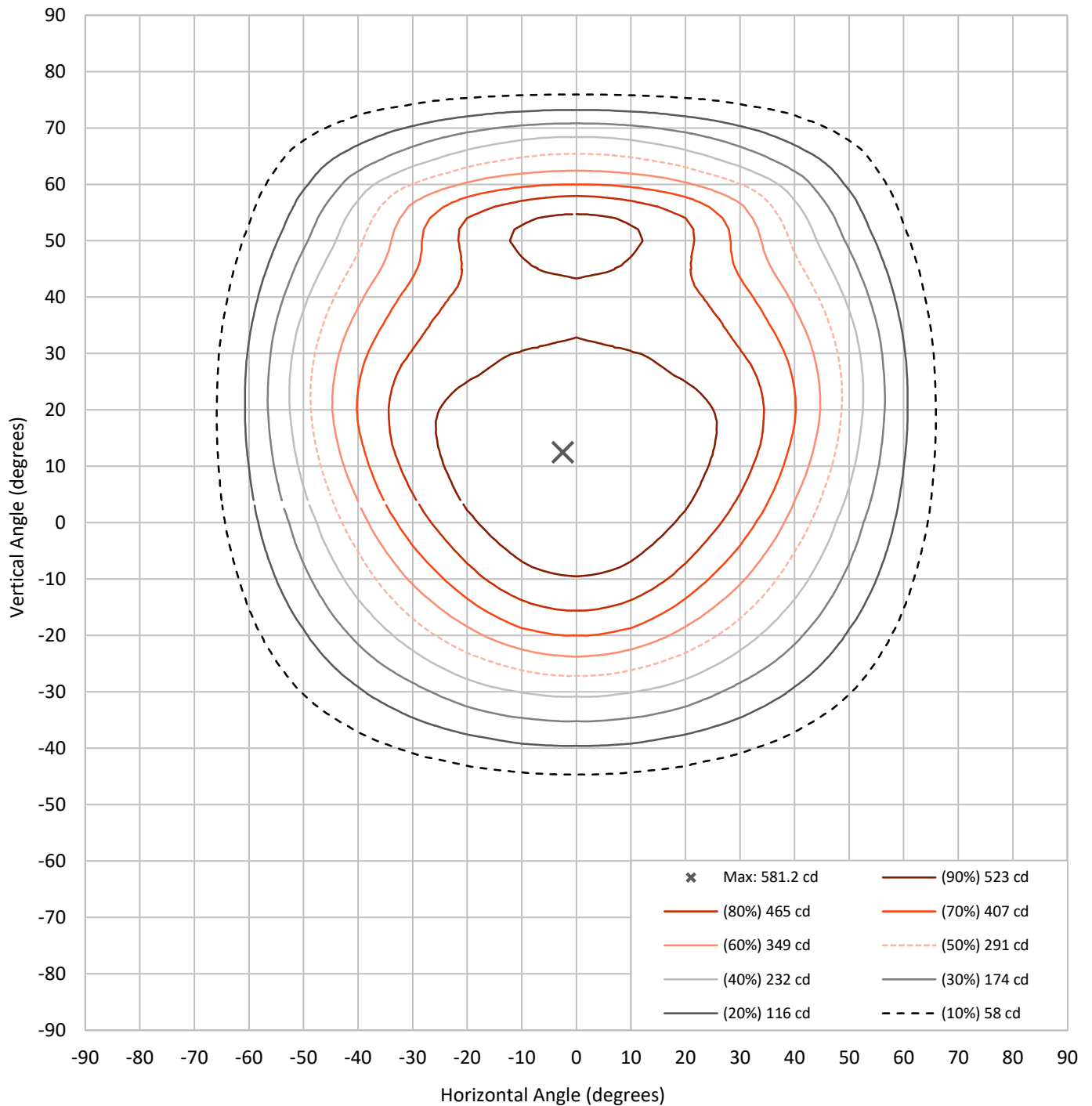
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	1184.4 lumens	Max Intensity:	581.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 12.5°V
Efficacy:	65.8 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.46' x L: 0.12' x H: 0.1')		
Beam Angle (50%):	95°H x 92.5°V	Field Angle (10%):	131.4°H x 120.5°V
Beam Lumens:	917.4 lumens	Field Lumens:	1160.7 lumens
Beam Efficiency:	77.5%	Field Efficiency:	98.0%
Input Watts (W):	18		
Input Voltage (V):	NR		
Input Current (A _{in}):	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		



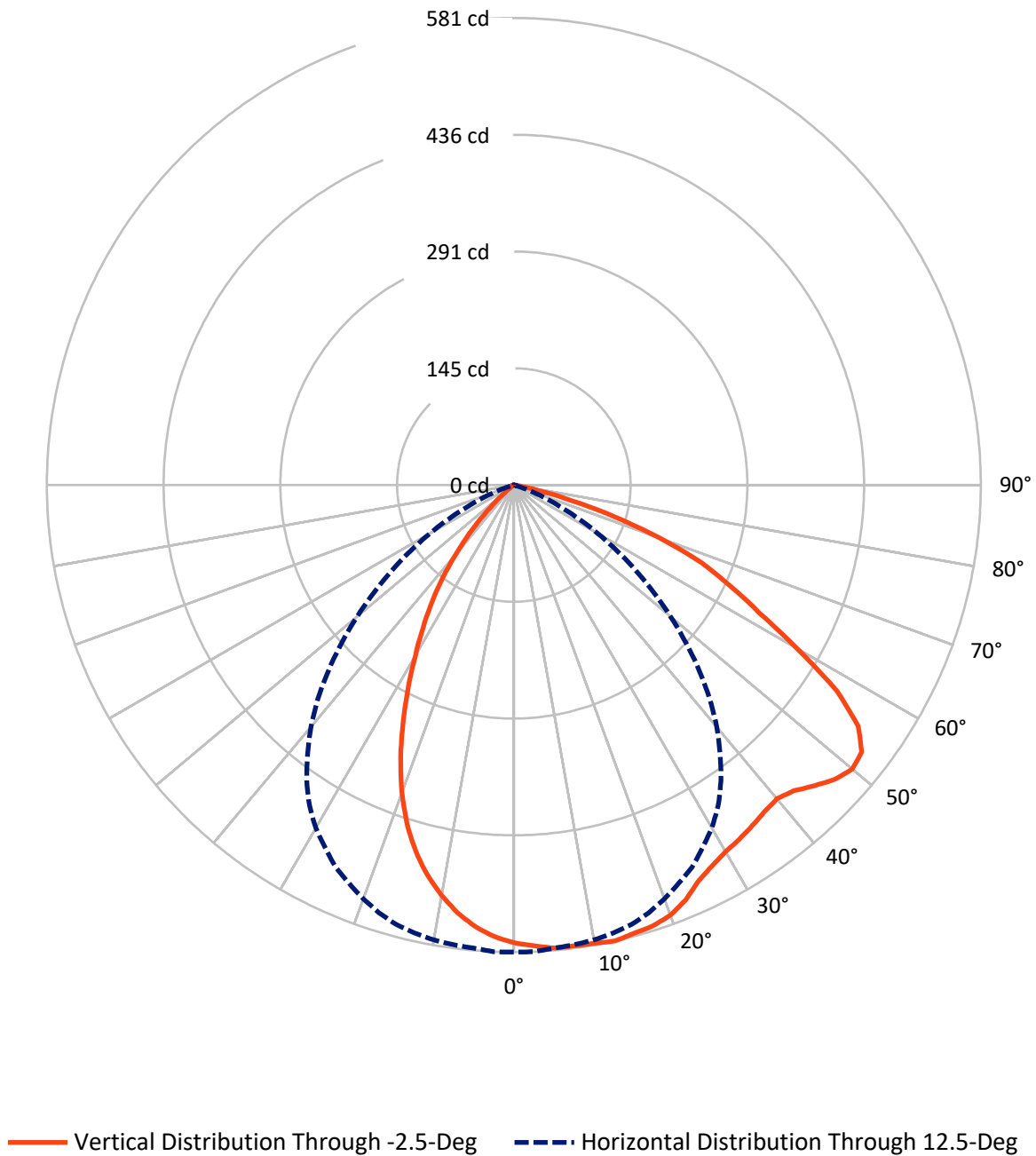
REPORT NUMBER: P132876
CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

Iso-Candela Plot



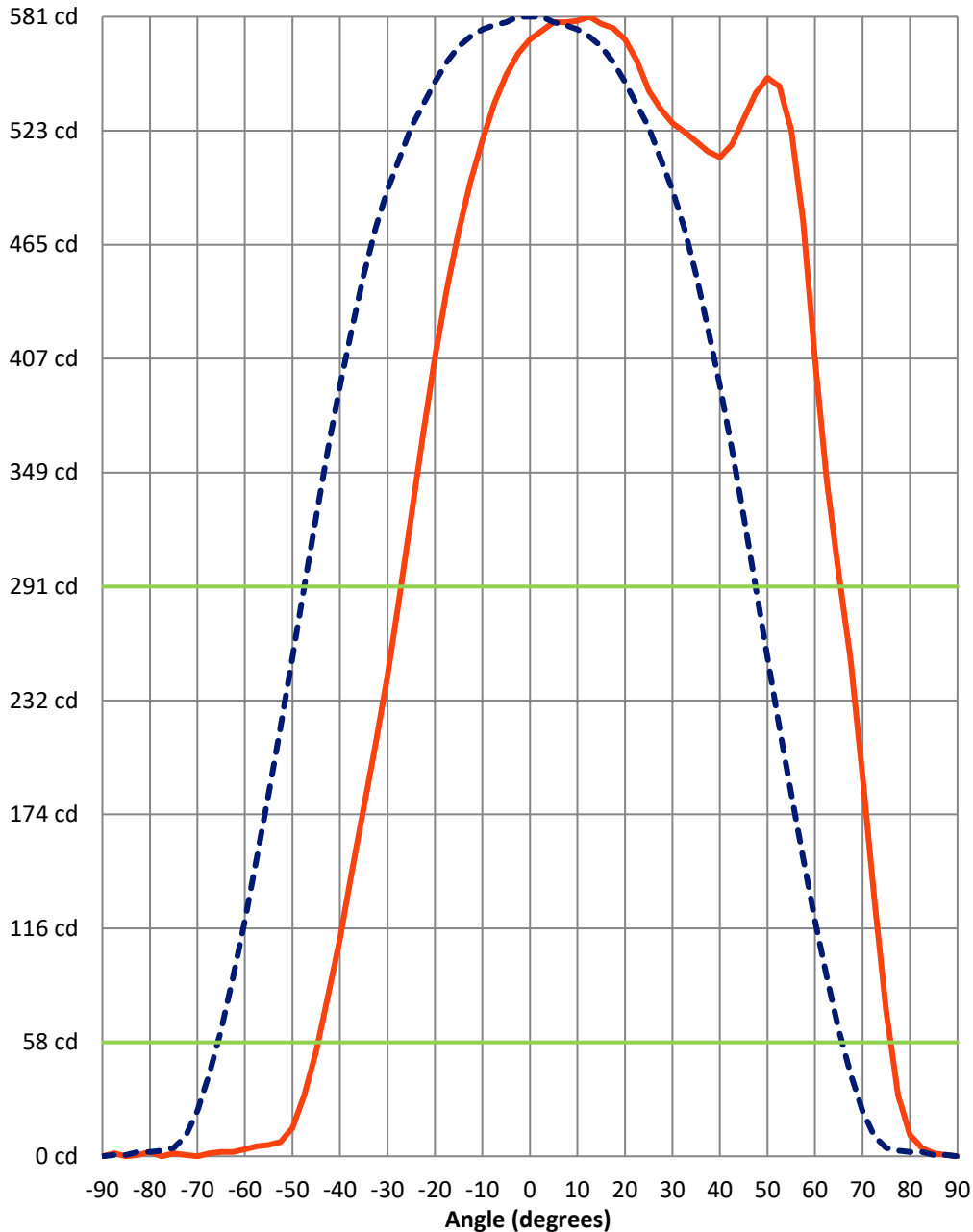
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 95°
 V Angle: 92.5°
 Lumens: 917.4
 Efficiency: 77.5%

Field:
 H Angle: 131.4°
 V Angle: 120.5°
 Lumens: 1160.7
 Efficiency: 98.0%

Spill:
 Lumens: 23.7
 Efficiency: 2.0%

— Vertical Distribution through -2.5-Deg
 - - - Horizontal Distribution through 12.5-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	0	0	0	0	0
85°	0	0	0	0	0	0	1	1	1	1	1
82.5°	0	0	0	0	1	1	1	1	1	1	1
80°	0	0	0	1	1	1	1	1	1	1	2
77.5°	0	0	0	1	1	1	1	1	1	1	2
75°	0	0	1	1	1	1	1	1	1	2	2
72.5°	0	0	1	1	1	1	1	1	2	2	3
70°	0	0	1	1	1	1	1	2	2	2	4
67.5°	0	0	1	1	2	2	2	2	2	4	7
65°	0	0	1	1	2	2	2	2	3	4	9
62.5°	0	0	1	1	2	2	2	2	4	6	12
60°	0	0	1	1	2	2	2	3	4	8	15
57.5°	0	1	1	2	2	2	2	3	5	10	19
55°	0	1	1	2	2	2	2	3	7	12	23
52.5°	0	1	1	2	2	2	2	4	7	16	28
50°	0	1	1	2	2	2	2	4	9	19	32
47.5°	0	1	1	2	2	2	2	5	12	22	36
45°	0	1	1	2	2	2	3	6	14	25	40
42.5°	0	1	1	2	3	2	4	7	16	28	44
40°	0	1	1	2	3	2	4	9	17	31	49
37.5°	0	1	1	2	3	2	4	9	20	33	52
35°	0	1	1	2	2	2	4	10	21	36	56
32.5°	0	1	1	2	2	2	4	11	22	38	59
30°	0	1	1	2	2	2	5	11	22	39	62
27.5°	0	1	1	2	2	2	5	12	23	41	64
25°	0	1	1	2	2	2	5	12	24	42	65
22.5°	0	1	1	2	2	2	4	12	25	43	66
20°	0	1	1	2	2	2	4	12	25	44	67
17.5°	0	1	1	2	2	3	4	11	25	44	67
15°	0	1	1	2	2	3	4	11	24	43	66
12.5°	0	1	1	2	2	3	4	10	23	42	65
10°	0	1	1	2	2	3	4	10	22	41	63
7.5°	0	1	1	2	2	3	4	9	21	39	61
5°	0	1	1	2	2	3	4	9	20	38	59
2.5°	0	1	1	2	2	3	4	7	18	36	57
0°	0	1	1	2	2	3	4	7	16	33	53
-2.5°	0	1	1	2	2	3	4	7	15	30	49
-5°	0	1	1	2	2	3	4	6	13	28	45
-7.5°	0	1	1	2	2	3	4	5	11	24	40
-10°	0	1	1	2	2	3	4	5	9	20	36
-12.5°	0	1	1	2	2	2	3	4	7	17	31
-15°	0	1	1	2	2	2	3	4	7	15	27
-17.5°	0	1	1	2	2	2	3	4	6	12	22
-20°	0	1	1	2	2	2	3	4	5	10	18



REPORT NUMBER: P132876

CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

CANDELA DISTRIBUTION (continued):

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



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CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

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	1	1
85°	1	1	1	1	1	1	1	2	2	2	2
82.5°	1	1	1	2	1	1	1	2	2	2	2
80°	1	1	2	2	2	3	3	4	4	4	6
77.5°	2	2	3	4	4	7	9	11	12	14	15
75°	3	4	6	9	12	15	18	22	28	31	36
72.5°	4	7	11	15	21	28	34	41	47	55	62
70°	7	12	17	25	33	42	52	62	71	82	92
67.5°	11	17	25	36	49	60	72	84	96	110	123
65°	15	23	34	48	65	77	94	109	124	140	154
62.5°	20	31	44	59	75	92	113	131	154	172	191
60°	25	38	54	71	88	109	131	153	180	206	228
57.5°	31	45	64	83	102	127	150	175	203	230	259
55°	36	52	72	91	115	143	167	195	224	252	282
52.5°	42	59	80	101	128	155	180	210	239	269	298
50°	48	67	88	113	140	166	191	223	250	281	309
47.5°	54	74	99	125	152	180	207	237	263	293	320
45°	59	82	108	136	165	194	223	252	281	308	333
42.5°	65	90	117	146	177	207	239	268	297	324	349
40°	70	96	126	157	189	221	252	283	312	338	363
37.5°	76	104	134	167	201	233	267	297	325	352	377
35°	81	110	142	176	212	245	278	309	338	366	391
32.5°	86	116	149	184	219	254	288	320	352	379	402
30°	90	120	153	190	225	262	296	329	362	389	414
27.5°	92	123	157	194	230	268	303	337	369	398	425
25°	94	125	160	196	233	272	307	343	375	404	431
22.5°	94	125	160	198	234	271	310	346	378	409	436
20°	94	125	160	196	233	270	308	345	380	410	436
17.5°	94	125	158	194	229	266	304	341	376	407	433
15°	93	123	156	190	225	261	299	334	370	402	429
12.5°	91	120	152	185	219	254	291	326	361	393	422
10°	88	117	147	180	212	246	281	316	350	382	412
7.5°	86	113	142	173	203	237	270	305	338	370	402
5°	83	109	137	166	194	227	258	292	325	355	388
2.5°	79	104	132	159	186	217	246	280	312	341	373
0°	74	98	125	149	175	205	233	265	296	325	356
-2.5°	70	93	118	143	167	196	222	252	281	310	341
-5°	64	87	111	134	158	184	210	237	264	291	321
-7.5°	59	81	103	125	148	173	197	223	249	274	302
-10°	53	73	95	117	138	162	185	209	233	257	283
-12.5°	47	66	86	107	128	149	172	194	217	240	263
-15°	42	59	78	97	117	136	159	179	202	223	242
-17.5°	36	52	69	87	106	123	145	165	184	204	223
-20°	31	44	59	77	94	110	130	149	167	186	204



REPORT NUMBER: P132876

CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	25	37	51	66	83	98	115	133	149	167	184
-25°	20	31	42	56	71	86	99	117	132	149	165
-27.5°	15	24	34	46	59	73	86	100	115	128	144
-30°	12	18	26	36	49	60	72	83	97	110	123
-32.5°	8	13	20	28	37	48	59	68	79	91	102
-35°	6	9	14	20	28	36	46	54	62	72	83
-37.5°	4	7	9	14	19	25	34	41	47	55	64
-40°	3	5	6	9	12	17	22	29	34	40	46
-42.5°	2	4	4	4	8	10	13	18	22	26	31
-45°	2	4	4	4	5	6	8	9	13	15	19
-47.5°	2	3	4	4	4	4	4	6	7	9	9
-50°	2	3	3	3	3	4	3	3	4	4	5
-52.5°	2	3	3	2	3	4	3	3	3	4	4
-55°	2	3	2	2	2	3	3	2	2	3	3
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-60°	2	2	2	2	2	2	1	2	2	2	2
-62.5°	1	1	2	1	1	2	1	1	1	2	2
-65°	1	0	0	1	0	1	1	1	2	1	1
-67.5°	1	0	0	2	2	1	1	1	1	1	1
-70°	1	0	0	1	2	2	1	1	1	1	1
-72.5°	2	1	0	1	1	1	1	2	1	1	1
-75°	1	1	1	1	1	0	0	1	1	0	0
-77.5°	0	1	1	1	1	1	1	1	1	0	0
-80°	0	0	1	1	1	1	1	2	2	2	2
-82.5°	0	0	0	1	0	0	0	0	0	1	1
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



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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	1	1	1	1	1	1	1	1	1	1
85°	2	1	1	1	2	2	2	2	2	2	2
82.5°	3	3	3	3	4	4	4	4	4	4	4
80°	7	7	8	8	9	9	9	9	11	11	10
77.5°	17	19	20	22	25	26	27	28	28	30	31
75°	38	42	46	51	55	58	61	64	67	69	70
72.5°	69	75	82	89	96	101	107	112	117	122	125
70°	102	112	122	131	141	150	159	166	173	180	186
67.5°	136	149	162	175	186	197	208	217	226	234	241
65°	170	186	201	213	227	240	252	263	272	279	286
62.5°	210	227	244	259	273	286	300	312	321	328	335
60°	252	273	291	310	328	342	357	370	380	388	395
57.5°	287	312	339	358	379	399	414	427	439	449	459
55°	312	340	370	394	417	438	457	470	483	495	505
52.5°	329	356	384	411	435	456	478	492	506	518	528
50°	337	364	390	415	438	458	478	494	509	522	532
47.5°	345	369	393	415	436	455	473	489	503	515	525
45°	356	379	399	420	438	455	470	482	494	506	515
42.5°	370	392	412	429	444	459	472	482	493	501	508
40°	385	407	425	441	456	469	479	487	494	500	505
37.5°	399	420	437	452	466	477	486	493	498	504	508
35°	412	431	448	462	476	483	491	499	507	510	514
32.5°	424	441	458	471	481	491	501	507	512	516	519
30°	437	454	468	481	491	499	509	514	519	523	524
27.5°	446	465	478	491	501	509	515	520	525	528	531
25°	454	472	488	500	510	518	523	527	532	537	540
22.5°	458	478	496	508	518	525	531	537	542	546	551
20°	460	483	500	513	524	533	541	546	552	558	563
17.5°	459	481	500	516	527	538	546	554	561	566	570
15°	457	478	498	513	527	539	548	557	565	570	574
12.5°	449	473	493	509	525	536	548	558	566	571	575
10°	440	464	485	502	519	533	546	557	565	570	573
7.5°	430	454	476	495	512	527	541	552	560	566	573
5°	417	443	465	486	502	520	534	546	555	563	570
2.5°	402	429	452	473	493	510	525	537	549	557	565
0°	384	412	434	458	478	496	512	526	539	549	557
-2.5°	368	394	418	441	461	481	499	513	526	539	547
-5°	349	375	400	422	443	463	482	498	512	524	534
-7.5°	329	354	380	402	423	444	463	480	494	508	520
-10°	309	334	357	380	401	422	441	461	475	488	499
-12.5°	288	312	334	356	377	397	417	436	453	467	478
-15°	265	288	310	331	350	371	390	410	426	441	452
-17.5°	244	265	286	306	323	342	360	378	395	410	424
-20°	221	241	260	279	296	312	329	346	362	375	388



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	200	216	234	252	268	283	298	311	325	337	349
-25°	179	193	208	224	239	254	266	277	288	299	309
-27.5°	158	170	183	196	210	223	236	246	254	261	270
-30°	136	148	160	170	183	194	205	215	223	228	234
-32.5°	114	125	136	146	154	165	176	184	192	197	202
-35°	91	102	112	121	129	137	144	152	160	166	170
-37.5°	72	79	88	96	104	110	117	122	127	133	137
-40°	52	59	65	72	78	84	90	94	98	102	106
-42.5°	34	40	45	50	54	58	64	69	72	74	77
-45°	22	24	26	31	33	36	40	43	46	49	50
-47.5°	12	12	15	16	17	19	22	23	25	27	28
-50°	6	6	7	8	9	9	9	10	12	12	13
-52.5°	4	4	4	4	6	5	5	6	6	6	7
-55°	3	3	3	3	4	3	3	4	4	4	5
-57.5°	2	2	2	2	2	2	2	3	3	3	4
-60°	2	2	2	2	2	2	2	2	2	2	3
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	1	1	1	2	2	2	2
-67.5°	1	2	2	2	2	1	1	1	1	1	2
-70°	1	1	2	2	1	1	1	1	1	1	0
-72.5°	1	1	2	2	1	1	1	1	1	1	2
-75°	1	1	1	1	1	1	1	1	0	0	0
-77.5°	1	1	0	0	1	1	1	1	0	1	1
-80°	2	1	1	0	0	1	1	1	1	1	1
-82.5°	1	1	1	1	1	1	1	0	0	0	1
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	1	0	0	0	0	0	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P132876

CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

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°	1	1	1	1	1	1	1	1	1	1	1
85°	2	2	2	2	2	2	2	2	2	2	2
82.5°	4	4	4	4	4	4	4	4	4	4	4
80°	11	11	11	12	11	11	11	10	11	11	9
77.5°	31	31	31	31	31	31	31	31	30	28	28
75°	72	74	74	74	74	74	72	70	69	67	64
72.5°	128	131	131	131	131	131	128	125	122	117	112
70°	189	194	194	195	194	194	189	186	180	173	166
67.5°	246	252	253	254	253	252	246	241	234	226	217
65°	291	295	297	298	297	295	291	286	279	272	263
62.5°	339	342	344	345	344	342	339	335	328	321	312
60°	400	404	407	406	407	404	400	395	388	380	370
57.5°	467	472	477	478	477	472	467	459	449	439	427
55°	513	519	523	524	523	519	513	505	495	483	470
52.5°	536	542	546	546	546	542	536	528	518	506	492
50°	540	546	550	552	550	546	540	532	522	509	494
47.5°	533	539	542	544	542	539	533	525	515	503	489
45°	523	527	529	532	529	527	523	515	506	494	482
42.5°	512	515	516	518	516	515	512	508	501	493	482
40°	507	509	510	510	510	509	507	505	500	494	487
37.5°	511	512	512	514	512	512	511	508	504	498	493
35°	516	518	518	519	518	518	516	514	510	507	499
32.5°	520	522	523	524	523	522	520	519	516	512	507
30°	525	525	527	528	527	525	525	524	523	519	514
27.5°	532	533	534	535	534	533	532	531	528	525	520
25°	541	544	544	545	544	544	541	540	537	532	527
22.5°	554	557	559	560	559	557	554	551	546	542	537
20°	565	568	570	572	570	568	565	563	558	552	546
17.5°	573	574	575	576	575	574	573	570	566	561	554
15°	576	577	578	578	578	577	576	574	570	565	557
12.5°	577	578	581	581	581	578	577	575	571	566	558
10°	576	578	579	581	579	578	576	573	570	565	557
7.5°	576	578	578	579	578	578	576	573	566	560	552
5°	574	577	578	579	578	577	574	570	563	555	546
2.5°	570	573	574	575	574	573	570	565	557	549	537
0°	564	568	570	570	570	568	564	557	549	539	526
-2.5°	555	560	562	563	562	560	555	547	539	526	513
-5°	542	548	552	553	552	548	542	534	524	512	498
-7.5°	528	533	537	537	537	533	528	520	508	494	480
-10°	510	515	518	520	518	515	510	499	488	475	461
-12.5°	487	494	497	499	497	494	487	478	467	453	436
-15°	461	467	472	473	472	467	461	452	441	426	410
-17.5°	431	438	442	442	442	438	431	424	410	395	378
-20°	396	403	407	407	407	403	396	388	375	362	346



REPORT NUMBER: P132876

CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	357	365	368	371	368	365	357	349	337	325	311
-25°	318	323	326	328	326	323	318	309	299	288	277
-27.5°	277	282	285	285	285	282	277	270	261	254	246
-30°	239	243	245	244	245	243	239	234	228	223	215
-32.5°	205	209	210	210	210	209	205	202	197	192	184
-35°	173	175	178	177	178	175	173	170	166	160	152
-37.5°	141	143	145	144	145	143	141	137	133	127	122
-40°	108	110	111	110	111	110	108	106	102	98	94
-42.5°	80	81	82	82	82	81	80	77	74	72	69
-45°	52	53	54	53	54	53	52	50	49	46	43
-47.5°	28	30	31	31	31	30	28	28	27	25	23
-50°	15	15	15	14	15	15	15	13	12	12	10
-52.5°	9	8	7	7	7	8	9	7	6	6	6
-55°	6	6	6	6	6	6	6	5	4	4	4
-57.5°	4	5	5	5	5	5	4	4	3	3	3
-60°	3	4	4	4	4	4	3	3	2	2	2
-62.5°	3	2	2	2	2	2	3	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	2	2	2	1	2	2	2	2	1	1	1
-70°	0	0	0	0	0	0	0	0	1	1	1
-72.5°	2	1	1	2	1	1	2	2	1	1	1
-75°	1	2	2	0	2	2	1	0	0	0	1
-77.5°	1	0	0	1	0	0	1	1	1	0	1
-80°	1	1	2	4	2	1	1	1	1	1	1
-82.5°	1	1	1	2	1	1	1	1	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	1	1	2	2	2	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P132876
 CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

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°	1	1	1	1	1	1	1	1	1	1	1
85°	2	2	2	1	1	1	2	2	2	2	2
82.5°	4	4	4	3	3	3	3	2	2	2	2
80°	9	9	9	8	8	7	7	6	4	4	4
77.5°	27	26	25	22	20	19	17	15	14	12	11
75°	61	58	55	51	46	42	38	36	31	28	22
72.5°	107	101	96	89	82	75	69	62	55	47	41
70°	159	150	141	131	122	112	102	92	82	71	62
67.5°	208	197	186	175	162	149	136	123	110	96	84
65°	252	240	227	213	201	186	170	154	140	124	109
62.5°	300	286	273	259	244	227	210	191	172	154	131
60°	357	342	328	310	291	273	252	228	206	180	153
57.5°	414	399	379	358	339	312	287	259	230	203	175
55°	457	438	417	394	370	340	312	282	252	224	195
52.5°	478	456	435	411	384	356	329	298	269	239	210
50°	478	458	438	415	390	364	337	309	281	250	223
47.5°	473	455	436	415	393	369	345	320	293	263	237
45°	470	455	438	420	399	379	356	333	308	281	252
42.5°	472	459	444	429	412	392	370	349	324	297	268
40°	479	469	456	441	425	407	385	363	338	312	283
37.5°	486	477	466	452	437	420	399	377	352	325	297
35°	491	483	476	462	448	431	412	391	366	338	309
32.5°	501	491	481	471	458	441	424	402	379	352	320
30°	509	499	491	481	468	454	437	414	389	362	329
27.5°	515	509	501	491	478	465	446	425	398	369	337
25°	523	518	510	500	488	472	454	431	404	375	343
22.5°	531	525	518	508	496	478	458	436	409	378	346
20°	541	533	524	513	500	483	460	436	410	380	345
17.5°	546	538	527	516	500	481	459	433	407	376	341
15°	548	539	527	513	498	478	457	429	402	370	334
12.5°	548	536	525	509	493	473	449	422	393	361	326
10°	546	533	519	502	485	464	440	412	382	350	316
7.5°	541	527	512	495	476	454	430	402	370	338	305
5°	534	520	502	486	465	443	417	388	355	325	292
2.5°	525	510	493	473	452	429	402	373	341	312	280
0°	512	496	478	458	434	412	384	356	325	296	265
-2.5°	499	481	461	441	418	394	368	341	310	281	252
-5°	482	463	443	422	400	375	349	321	291	264	237
-7.5°	463	444	423	402	380	354	329	302	274	249	223
-10°	441	422	401	380	357	334	309	283	257	233	209
-12.5°	417	397	377	356	334	312	288	263	240	217	194
-15°	390	371	350	331	310	288	265	242	223	202	179
-17.5°	360	342	323	306	286	265	244	223	204	184	165
-20°	329	312	296	279	260	241	221	204	186	167	149



REPORT NUMBER: P132876

CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	298	283	268	252	234	216	200	184	167	149	133
-25°	266	254	239	224	208	193	179	165	149	132	117
-27.5°	236	223	210	196	183	170	158	144	128	115	100
-30°	205	194	183	170	160	148	136	123	110	97	83
-32.5°	176	165	154	146	136	125	114	102	91	79	68
-35°	144	137	129	121	112	102	91	83	72	62	54
-37.5°	117	110	104	96	88	79	72	64	55	47	41
-40°	90	84	78	72	65	59	52	46	40	34	29
-42.5°	64	58	54	50	45	40	34	31	26	22	18
-45°	40	36	33	31	26	24	22	19	15	13	9
-47.5°	22	19	17	16	15	12	12	9	9	7	6
-50°	9	9	9	8	7	6	6	5	4	4	3
-52.5°	5	5	6	4	4	4	4	4	4	3	3
-55°	3	3	4	3	3	3	3	3	3	2	2
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-60°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	1	1
-65°	1	1	1	2	2	2	2	1	1	2	1
-67.5°	1	1	2	2	2	2	1	1	1	1	1
-70°	1	1	1	2	2	1	1	1	1	1	1
-72.5°	1	1	1	2	2	1	1	1	1	1	2
-75°	1	1	1	1	1	1	1	0	0	1	1
-77.5°	1	1	1	0	0	1	1	0	0	1	1
-80°	1	1	0	0	1	1	2	2	2	2	2
-82.5°	1	1	1	1	1	1	1	1	1	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	1	0	0	0	0	0	1	1	1	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P132876

CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	2	1	1	1	1	1	1	1
80°	3	3	2	2	2	1	1	2	1	1	1
77.5°	9	7	4	4	3	2	2	2	1	1	1
75°	18	15	12	9	6	4	3	2	2	1	1
72.5°	34	28	21	15	11	7	4	3	2	2	1
70°	52	42	33	25	17	12	7	4	2	2	2
67.5°	72	60	49	36	25	17	11	7	4	2	2
65°	94	77	65	48	34	23	15	9	4	3	2
62.5°	113	92	75	59	44	31	20	12	6	4	2
60°	131	109	88	71	54	38	25	15	8	4	3
57.5°	150	127	102	83	64	45	31	19	10	5	3
55°	167	143	115	91	72	52	36	23	12	7	3
52.5°	180	155	128	101	80	59	42	28	16	7	4
50°	191	166	140	113	88	67	48	32	19	9	4
47.5°	207	180	152	125	99	74	54	36	22	12	5
45°	223	194	165	136	108	82	59	40	25	14	6
42.5°	239	207	177	146	117	90	65	44	28	16	7
40°	252	221	189	157	126	96	70	49	31	17	9
37.5°	267	233	201	167	134	104	76	52	33	20	9
35°	278	245	212	176	142	110	81	56	36	21	10
32.5°	288	254	219	184	149	116	86	59	38	22	11
30°	296	262	225	190	153	120	90	62	39	22	11
27.5°	303	268	230	194	157	123	92	64	41	23	12
25°	307	272	233	196	160	125	94	65	42	24	12
22.5°	310	271	234	198	160	125	94	66	43	25	12
20°	308	270	233	196	160	125	94	67	44	25	12
17.5°	304	266	229	194	158	125	94	67	44	25	11
15°	299	261	225	190	156	123	93	66	43	24	11
12.5°	291	254	219	185	152	120	91	65	42	23	10
10°	281	246	212	180	147	117	88	63	41	22	10
7.5°	270	237	203	173	142	113	86	61	39	21	9
5°	258	227	194	166	137	109	83	59	38	20	9
2.5°	246	217	186	159	132	104	79	57	36	18	7
0°	233	205	175	149	125	98	74	53	33	16	7
-2.5°	222	196	167	143	118	93	70	49	30	15	7
-5°	210	184	158	134	111	87	64	45	28	13	6
-7.5°	197	173	148	125	103	81	59	40	24	11	5
-10°	185	162	138	117	95	73	53	36	20	9	5
-12.5°	172	149	128	107	86	66	47	31	17	7	4
-15°	159	136	117	97	78	59	42	27	15	7	4
-17.5°	145	123	106	87	69	52	36	22	12	6	4
-20°	130	110	94	77	59	44	31	18	10	5	4



REPORT NUMBER: P132876

CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	115	98	83	66	51	37	25	14	8	4	3
-25°	99	86	71	56	42	31	20	11	6	4	3
-27.5°	86	73	59	46	34	24	15	8	4	3	3
-30°	72	60	49	36	26	18	12	7	4	3	2
-32.5°	59	48	37	28	20	13	8	4	3	3	2
-35°	46	36	28	20	14	9	6	3	3	3	2
-37.5°	34	25	19	14	9	7	4	2	2	2	2
-40°	22	17	12	9	6	5	3	2	2	3	2
-42.5°	13	10	8	4	4	4	2	2	2	3	2
-45°	8	6	5	4	4	4	2	2	2	2	2
-47.5°	4	4	4	4	4	3	2	2	2	2	2
-50°	3	4	3	3	3	3	2	2	2	2	2
-52.5°	3	4	3	2	3	3	2	2	2	2	2
-55°	3	3	2	2	2	3	2	2	2	2	1
-57.5°	2	2	2	2	2	2	2	2	2	1	1
-60°	1	2	2	2	2	2	2	1	1	1	1
-62.5°	1	2	1	1	2	1	1	1	0	1	2
-65°	1	1	0	1	0	0	1	1	0	1	2
-67.5°	1	1	2	2	0	0	1	1	1	1	1
-70°	1	2	2	1	0	0	1	1	1	1	1
-72.5°	1	1	1	1	0	1	2	2	1	1	1
-75°	0	0	1	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	0	0	1	1	0
-80°	1	1	1	1	1	0	0	0	0	0	0
-82.5°	0	0	0	1	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: P132876

CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

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



REPORT NUMBER: P132876

CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR

CANDELA DISTRIBUTION (continued):

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