

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: P132879

Luminaire Tested: **XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P132879
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD
Description: LUMARK CROSSTOUR 20W LED WALL PACK WITH WHITE HOUSING
Light Source: [1] 5000K LED
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

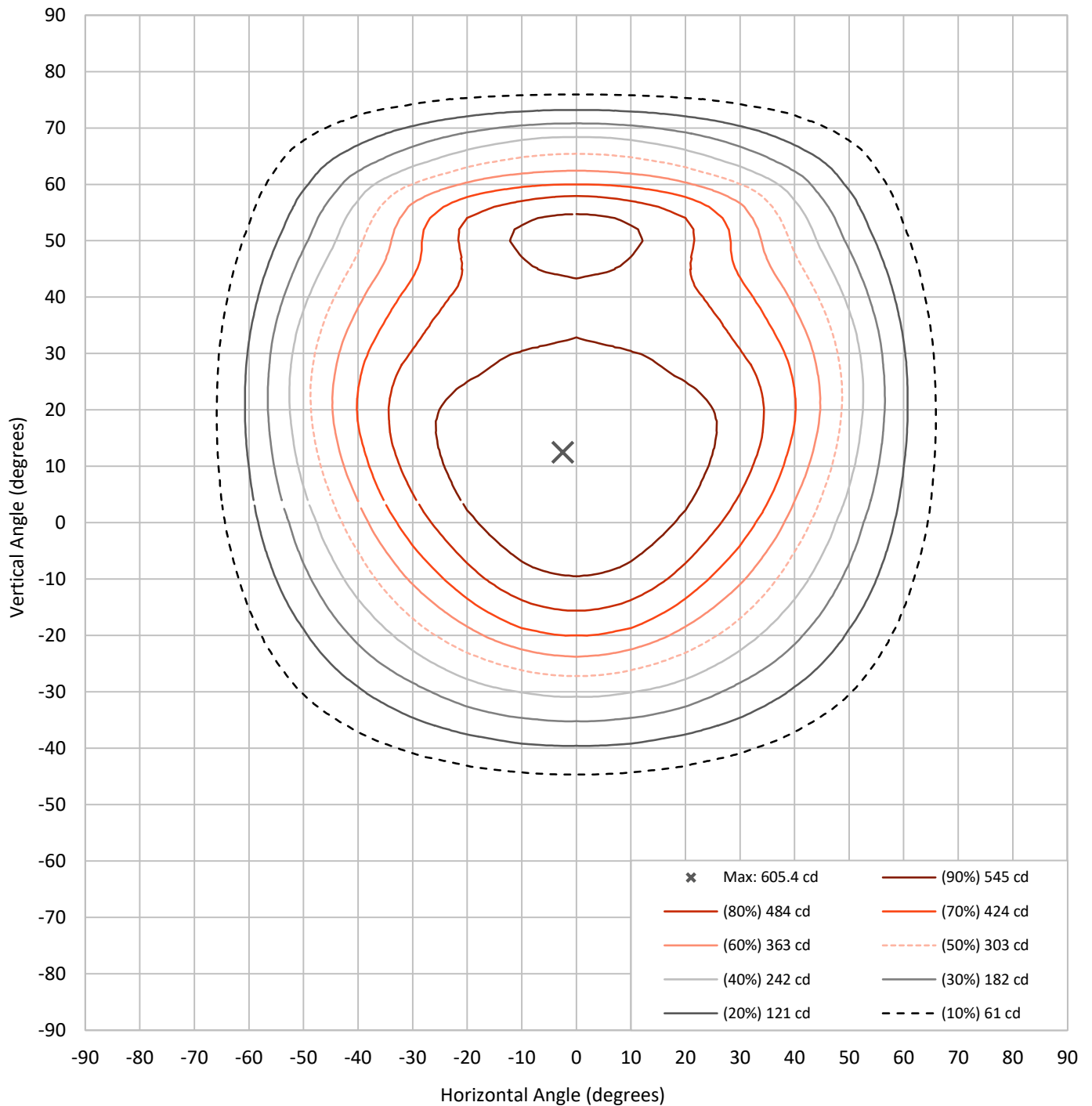
Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	1233.6 lumens	Max Intensity:	605.4 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 12.5°V
Efficacy:	68.5 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.12' x L: 0.46' x H: 0.1')		
Beam Angle (50%):	95°H x 92.5°V	Field Angle (10%):	131.4°H x 120.5°V
Beam Lumens:	955.5 lumens	Field Lumens:	1208.9 lumens
Beam Efficiency:	77.5%	Field Efficiency:	98.0%
Input Watts (W):	18		
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: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

Iso-Candela Plot

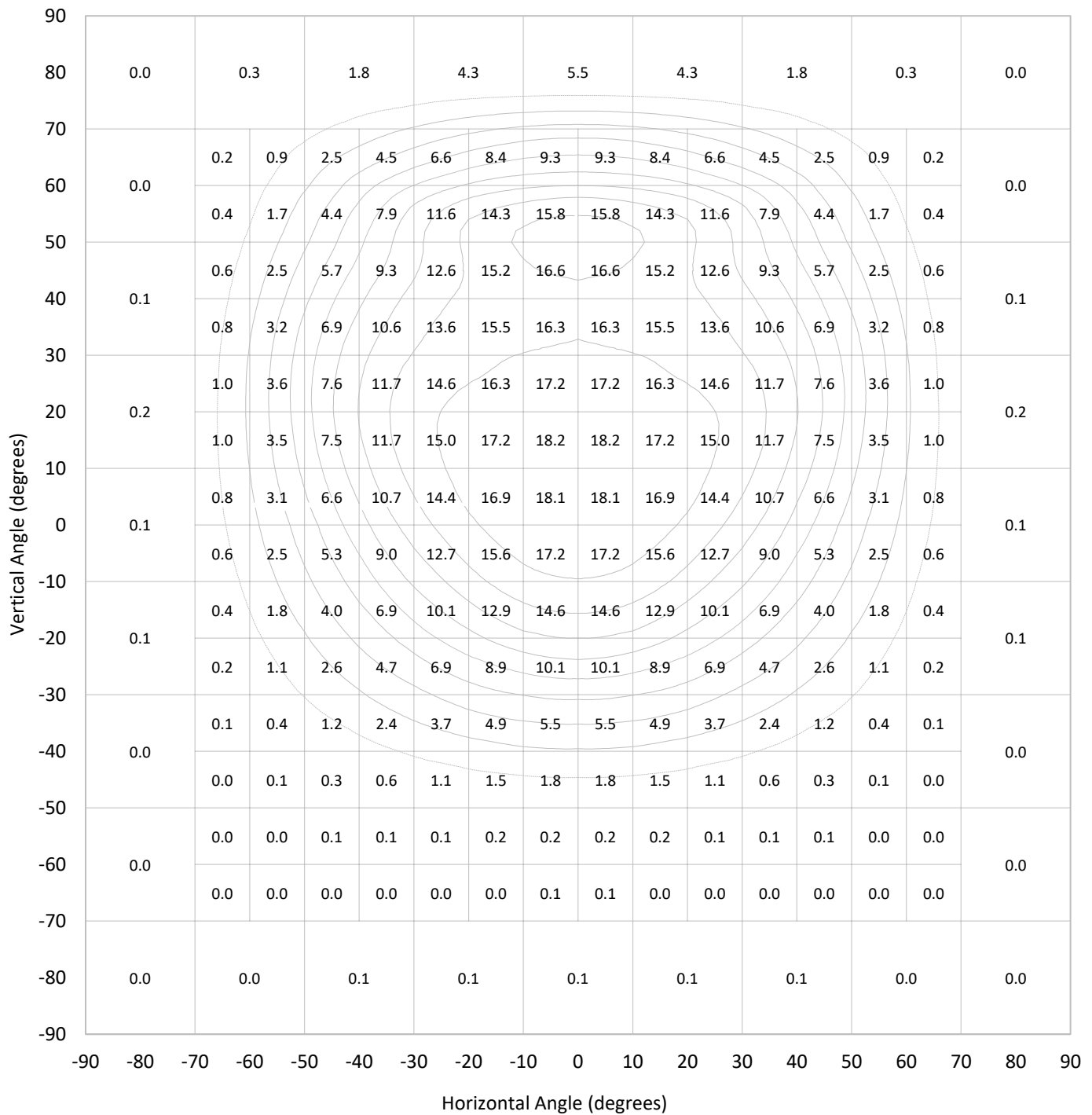




REPORT NUMBER: P132879

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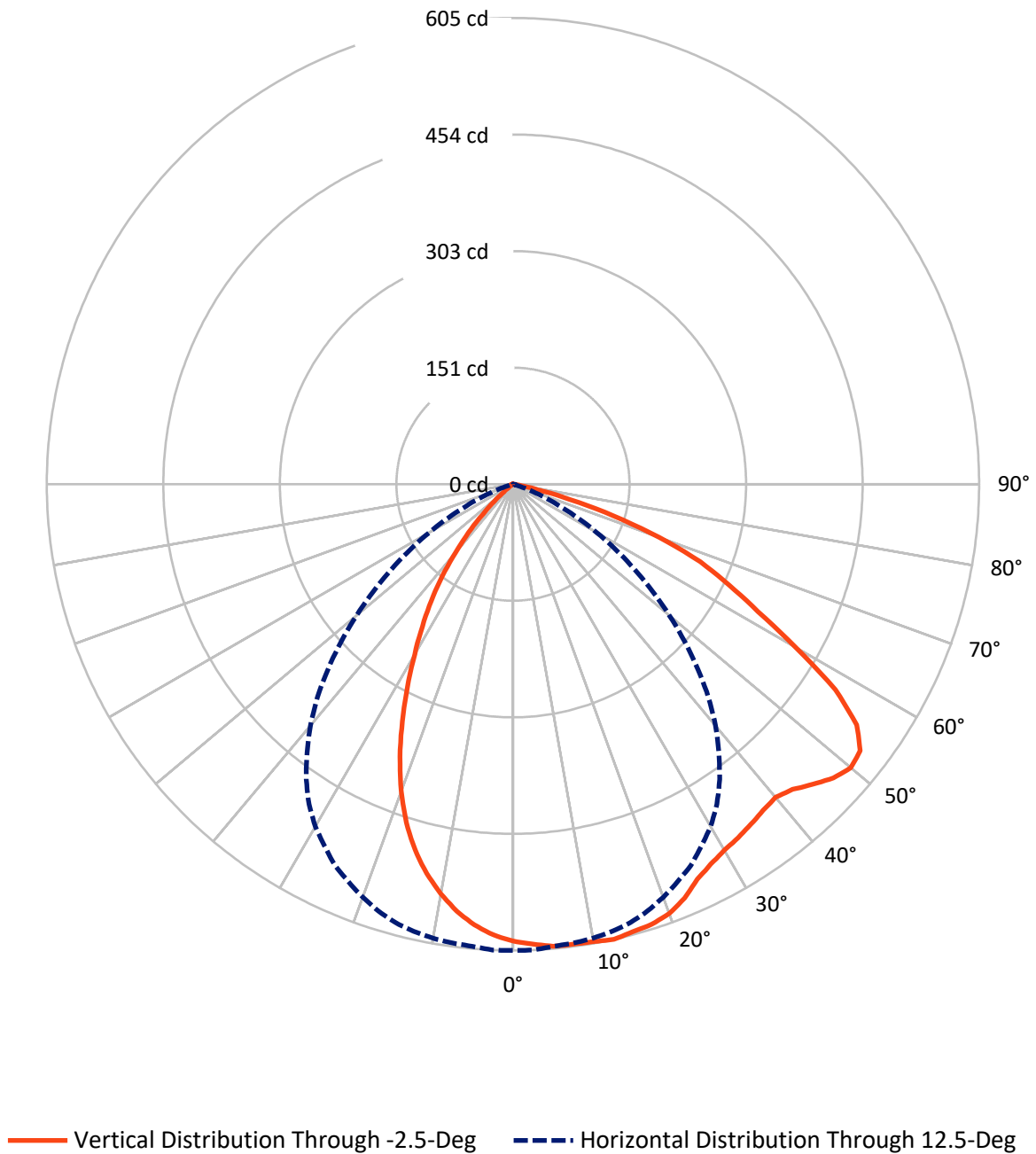
Lumen Table



REPORT NUMBER: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

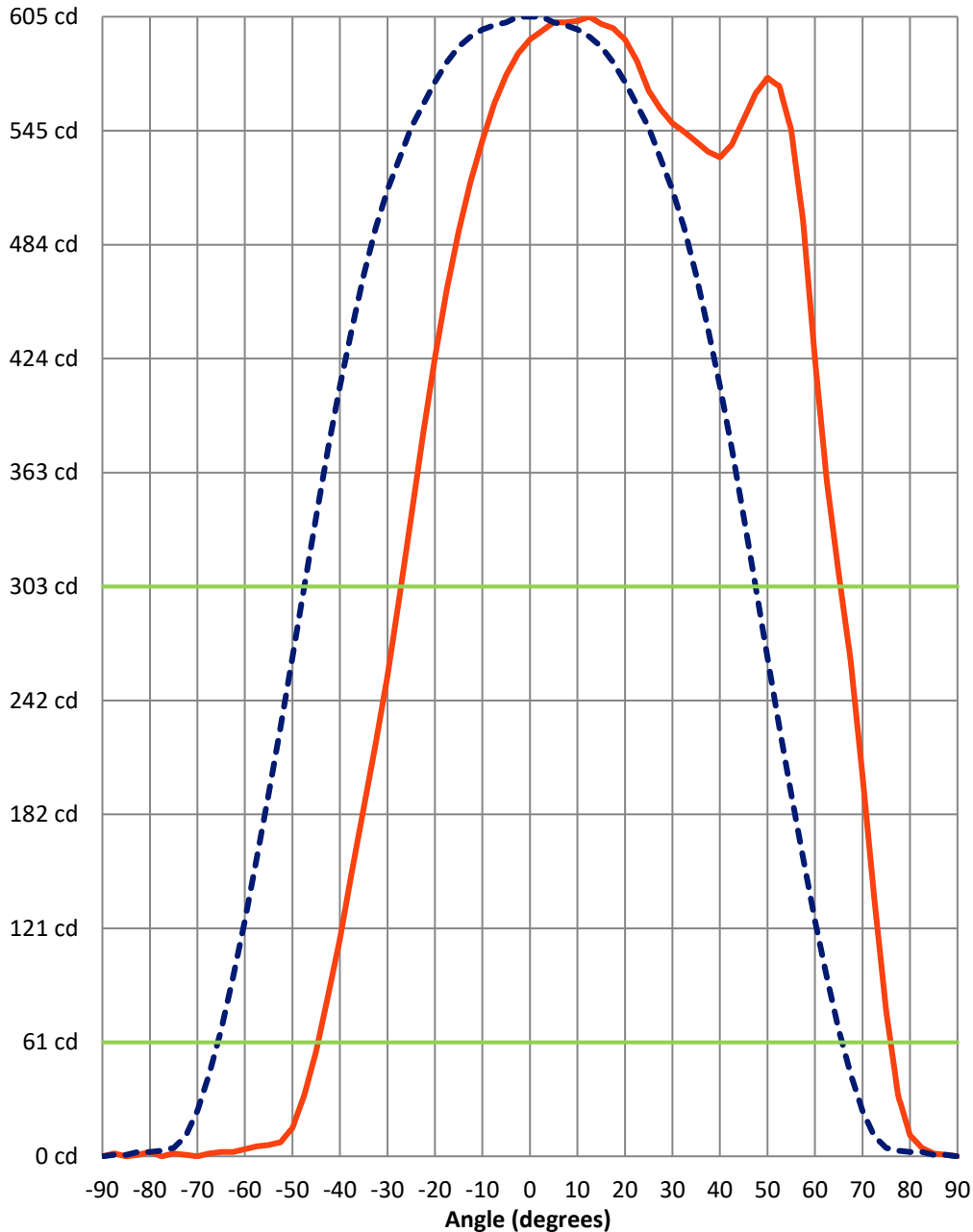
Luminous Intensity Polar Plot



REPORT NUMBER: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

Luminous Intensity Plot



Beam:
 H Angle: 95°
 V Angle: 92.5°
 Lumens: 955.5
 Efficiency: 77.5%

Field:
 H Angle: 131.4°
 V Angle: 120.5°
 Lumens: 1208.9
 Efficiency: 98.0%

Spill:
 Lumens: 24.7
 Efficiency: 2.0%

— Vertical Distribution through -2.5-Deg
 - - - Horizontal Distribution through 12.5-Deg



REPORT NUMBER: P132879

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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	5
67.5°	0	0	1	1	2	2	2	2	2	4	7
65°	0	0	1	1	2	2	2	2	3	5	9
62.5°	0	0	1	1	2	2	2	2	4	6	13
60°	0	0	1	1	2	2	2	3	4	8	16
57.5°	0	1	1	2	2	2	2	3	5	11	20
55°	0	1	1	2	2	2	2	3	7	13	24
52.5°	0	1	1	2	2	2	2	4	8	17	29
50°	0	1	1	2	2	2	2	5	9	20	33
47.5°	0	1	1	2	2	2	2	5	12	23	38
45°	0	1	1	2	2	2	3	6	14	26	42
42.5°	0	1	1	2	3	2	4	8	17	29	46
40°	0	1	1	2	3	2	4	9	18	32	51
37.5°	0	1	1	2	3	2	5	10	20	34	54
35°	0	1	1	2	2	2	5	11	22	37	58
32.5°	0	1	1	2	2	2	5	11	23	39	62
30°	0	1	1	2	2	2	5	11	23	41	65
27.5°	0	1	1	2	2	2	5	12	24	42	66
25°	0	1	1	2	2	2	5	12	25	44	68
22.5°	0	1	1	2	2	2	5	12	26	45	69
20°	0	1	1	2	2	2	5	12	26	45	69
17.5°	0	1	1	2	2	3	4	11	26	45	69
15°	0	1	1	2	2	3	5	11	25	45	69
12.5°	0	1	1	2	2	3	5	11	25	45	69
10°	0	1	1	2	2	3	5	11	23	42	66
7.5°	0	1	1	2	2	3	5	10	22	41	63
5°	0	1	1	2	2	3	5	9	20	39	61
2.5°	0	1	1	2	2	3	5	8	19	37	59
0°	0	1	1	2	2	3	5	7	17	34	55
-2.5°	0	1	1	2	2	3	5	7	15	31	51
-5°	0	1	1	2	2	3	4	6	14	29	47
-7.5°	0	1	1	2	2	3	4	5	11	25	42
-10°	0	1	1	2	2	3	4	5	9	21	37
-12.5°	0	1	1	2	2	2	3	5	8	18	33
-15°	0	1	1	2	2	2	3	5	7	15	28
-17.5°	0	1	1	2	2	2	3	4	6	13	23
-20°	0	1	1	2	2	2	3	4	5	11	19



REPORT NUMBER: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

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	5	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	5	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	5
-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-WT-XTORFLD+VISOR+IMPACT SHIELD

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	5	6
77.5°	2	2	3	4	5	8	9	11	13	14	15
75°	3	4	6	9	12	16	19	23	29	33	37
72.5°	5	8	11	16	22	29	36	42	49	57	65
70°	8	12	18	26	35	44	54	64	74	85	96
67.5°	11	18	26	37	51	63	75	88	100	114	128
65°	16	24	36	50	67	80	98	113	129	146	161
62.5°	20	32	45	62	79	96	118	137	160	179	199
60°	26	39	56	74	91	113	136	159	187	214	237
57.5°	33	47	66	86	106	132	156	182	211	239	270
55°	38	54	75	95	119	149	174	203	233	262	294
52.5°	44	62	83	105	133	162	188	219	248	280	310
50°	50	69	92	118	146	173	199	232	260	292	322
47.5°	56	77	103	130	159	187	216	247	274	305	333
45°	62	85	113	141	171	202	233	263	292	321	347
42.5°	68	94	122	152	184	216	248	279	310	337	363
40°	73	100	131	163	197	230	263	295	325	353	378
37.5°	79	108	140	174	209	243	278	310	339	367	393
35°	85	115	148	183	221	255	289	322	353	381	407
32.5°	89	121	155	192	228	265	300	334	366	395	419
30°	94	125	159	198	235	273	309	343	377	405	431
27.5°	96	128	163	202	240	279	316	351	384	414	442
25°	97	130	166	205	243	283	320	357	390	421	449
22.5°	98	131	167	206	244	282	323	360	393	426	454
20°	98	131	167	205	242	281	321	359	396	427	454
17.5°	98	130	165	202	239	277	317	356	392	424	451
15°	97	128	162	198	234	272	311	348	385	418	447
12.5°	95	125	159	193	228	265	303	340	376	409	439
10°	92	122	153	187	220	257	293	329	365	398	430
7.5°	89	118	148	180	211	247	282	318	353	385	418
5°	86	113	143	173	202	236	269	304	338	370	404
2.5°	82	108	137	165	193	227	257	291	325	356	389
0°	77	102	130	156	183	214	242	276	308	339	371
-2.5°	73	97	123	149	174	204	231	263	292	323	355
-5°	66	91	116	140	165	192	218	247	275	303	334
-7.5°	61	84	107	131	154	180	205	233	259	285	315
-10°	55	76	99	122	143	168	193	217	243	268	294
-12.5°	49	69	90	112	133	156	179	202	227	250	274
-15°	44	61	81	101	122	142	165	186	210	232	252
-17.5°	38	54	72	91	110	128	151	171	192	213	233
-20°	32	46	62	80	98	115	135	155	174	194	212



REPORT NUMBER: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	26	39	53	69	86	102	119	138	156	174	192
-25°	20	32	44	58	74	89	103	122	137	155	171
-27.5°	16	25	36	48	62	76	89	104	119	134	150
-30°	12	19	27	38	51	63	76	87	101	114	128
-32.5°	8	14	20	29	39	50	61	71	82	94	106
-35°	6	10	14	20	29	38	48	56	65	76	86
-37.5°	5	7	9	14	20	26	36	42	49	57	66
-40°	3	5	6	9	13	17	23	30	36	42	48
-42.5°	2	4	5	5	8	11	14	19	23	27	32
-45°	2	4	4	4	5	6	8	10	14	16	20
-47.5°	2	3	4	4	4	5	5	6	7	9	10
-50°	2	3	3	3	3	4	3	3	4	5	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



REPORT NUMBER: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

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	5	5	5
80°	8	8	8	8	9	9	9	10	11	11	11
77.5°	17	20	21	23	26	27	28	29	29	31	32
75°	40	44	48	53	57	60	63	66	69	72	73
72.5°	72	79	85	93	100	106	112	117	122	127	130
70°	106	117	127	137	146	156	165	173	180	187	193
67.5°	142	156	168	182	194	205	217	227	236	244	251
65°	177	194	209	222	236	250	263	274	283	291	298
62.5°	218	236	254	270	285	298	313	325	334	342	349
60°	262	285	303	323	341	356	371	385	396	404	411
57.5°	299	325	353	373	395	415	431	445	457	468	478
55°	325	354	386	410	434	456	476	490	504	516	526
52.5°	343	371	400	428	453	475	497	513	527	539	550
50°	351	379	406	432	456	477	497	515	530	544	554
47.5°	359	384	409	432	454	474	493	510	524	536	547
45°	371	395	416	437	456	474	489	502	515	527	537
42.5°	385	408	429	447	463	478	491	502	513	522	529
40°	401	424	442	460	475	488	499	507	515	521	526
37.5°	416	437	455	471	485	497	506	513	519	525	529
35°	429	448	467	482	495	504	512	520	528	531	535
32.5°	442	460	477	491	501	512	522	528	534	538	541
30°	455	473	488	501	511	520	530	535	541	544	546
27.5°	465	484	498	511	522	530	537	541	547	550	553
25°	473	491	508	521	531	540	545	549	554	559	562
22.5°	477	498	516	529	539	547	553	559	565	569	574
20°	479	503	521	534	546	555	563	569	574	581	587
17.5°	478	501	521	538	549	560	569	577	584	590	594
15°	476	498	519	534	549	561	571	581	588	593	598
12.5°	468	493	513	530	547	559	571	581	590	595	599
10°	458	483	505	523	541	555	568	580	588	593	597
7.5°	448	473	495	516	533	549	563	574	584	590	596
5°	434	461	484	506	523	541	556	568	578	587	593
2.5°	419	447	470	492	513	531	547	559	571	581	588
0°	400	429	452	477	497	517	534	548	561	572	581
-2.5°	384	411	436	460	480	501	519	534	548	561	570
-5°	363	390	417	439	461	482	502	519	533	546	556
-7.5°	343	369	396	418	440	462	482	500	515	529	542
-10°	322	348	372	396	417	439	460	480	494	508	520
-12.5°	300	325	348	371	393	414	435	454	472	486	497
-15°	276	300	323	344	365	387	406	427	443	459	471
-17.5°	254	276	297	319	337	356	375	394	411	427	442
-20°	230	251	271	291	309	325	343	360	377	391	404



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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°	208	225	244	262	279	295	310	324	338	351	363
-25°	186	201	217	233	248	264	277	288	300	312	322
-27.5°	165	177	190	205	219	233	245	256	264	272	281
-30°	142	154	166	177	190	202	214	224	233	238	244
-32.5°	119	131	142	152	161	172	183	192	200	205	210
-35°	95	106	117	126	134	143	150	159	166	173	177
-37.5°	75	82	91	100	108	115	122	127	132	138	143
-40°	54	61	68	75	82	88	94	98	102	106	110
-42.5°	36	42	47	52	56	60	66	72	75	77	80
-45°	23	25	27	32	35	38	42	45	48	51	52
-47.5°	12	13	15	17	17	20	23	24	26	28	29
-50°	6	6	8	8	10	9	9	11	12	13	14
-52.5°	4	4	5	5	6	5	5	6	6	6	8
-55°	3	3	3	3	4	3	3	4	5	5	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: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

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°	5	5	5	4	5	5	5	5	5	5	4
80°	11	11	11	12	11	11	11	11	11	11	10
77.5°	32	33	33	32	33	33	32	32	31	29	29
75°	75	77	77	77	77	77	75	73	72	69	66
72.5°	133	137	137	137	137	137	133	130	127	122	117
70°	197	202	202	203	202	202	197	193	187	180	173
67.5°	257	263	263	264	263	263	257	251	244	236	227
65°	303	307	310	310	310	307	303	298	291	283	274
62.5°	353	356	359	359	359	356	353	349	342	334	325
60°	417	421	424	423	424	421	417	411	404	396	385
57.5°	486	491	497	498	497	491	486	478	468	457	445
55°	534	541	545	546	545	541	534	526	516	504	490
52.5°	559	565	568	569	568	565	559	550	539	527	513
50°	562	568	573	575	573	568	562	554	544	530	515
47.5°	555	561	565	567	565	561	555	547	536	524	510
45°	544	549	551	554	551	549	544	537	527	515	502
42.5°	534	536	538	540	538	536	534	529	522	513	502
40°	528	530	531	531	531	530	528	526	521	515	507
37.5°	532	533	534	535	534	533	532	529	525	519	513
35°	538	539	539	541	539	539	538	535	531	528	520
32.5°	542	544	544	546	544	544	542	541	538	534	528
30°	547	547	549	550	549	547	547	546	544	541	535
27.5°	554	555	556	557	556	555	554	553	550	547	541
25°	564	566	566	568	566	566	564	562	559	554	549
22.5°	577	580	582	584	582	580	577	574	569	565	559
20°	589	592	593	596	593	592	589	587	581	574	569
17.5°	596	598	599	600	599	598	596	594	590	584	577
15°	600	601	602	602	602	601	600	598	593	588	581
12.5°	601	602	605	605	605	602	601	599	595	590	581
10°	600	602	603	605	603	602	600	597	593	588	580
7.5°	600	602	602	603	602	602	600	596	590	584	574
5°	598	601	602	603	602	601	598	593	587	578	568
2.5°	593	597	598	599	598	597	593	588	581	571	559
0°	587	591	593	593	593	591	587	581	572	561	548
-2.5°	578	584	586	587	586	584	578	570	561	548	534
-5°	565	571	574	576	574	571	565	556	546	533	519
-7.5°	550	556	559	559	559	556	550	542	529	515	500
-10°	531	536	540	541	540	536	531	520	508	494	480
-12.5°	507	514	518	519	518	514	507	497	486	472	454
-15°	480	487	491	492	491	487	480	471	459	443	427
-17.5°	449	456	461	461	461	456	449	442	427	411	394
-20°	412	420	424	424	424	420	412	404	391	377	360



REPORT NUMBER: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	372	380	384	387	384	380	372	363	351	338	324
-25°	331	336	340	341	340	336	331	322	312	300	288
-27.5°	288	294	297	297	297	294	288	281	272	264	256
-30°	248	253	255	254	255	253	248	244	238	233	224
-32.5°	214	217	219	218	219	217	214	210	205	200	192
-35°	180	183	185	184	185	183	180	177	173	166	159
-37.5°	146	149	151	150	151	149	146	143	138	132	127
-40°	113	114	116	115	116	114	113	110	106	102	98
-42.5°	83	84	85	85	85	84	83	80	77	75	72
-45°	54	55	56	55	56	55	54	52	51	48	45
-47.5°	29	31	33	33	33	31	29	29	28	26	24
-50°	15	15	15	14	15	15	15	14	13	12	11
-52.5°	9	8	8	8	8	8	9	8	6	6	6
-55°	6	6	6	6	6	6	6	5	5	5	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: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

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	8	8	6	5	4	4
77.5°	28	27	26	23	21	20	17	15	14	13	11
75°	63	60	57	53	48	44	40	37	33	29	23
72.5°	112	106	100	93	85	79	72	65	57	49	42
70°	165	156	146	137	127	117	106	96	85	74	64
67.5°	217	205	194	182	168	156	142	128	114	100	88
65°	263	250	236	222	209	194	177	161	146	129	113
62.5°	313	298	285	270	254	236	218	199	179	160	137
60°	371	356	341	323	303	285	262	237	214	187	159
57.5°	431	415	395	373	353	325	299	270	239	211	182
55°	476	456	434	410	386	354	325	294	262	233	203
52.5°	497	475	453	428	400	371	343	310	280	248	219
50°	497	477	456	432	406	379	351	322	292	260	232
47.5°	493	474	454	432	409	384	359	333	305	274	247
45°	489	474	456	437	416	395	371	347	321	292	263
42.5°	491	478	463	447	429	408	385	363	337	310	279
40°	499	488	475	460	442	424	401	378	353	325	295
37.5°	506	497	485	471	455	437	416	393	367	339	310
35°	512	504	495	482	467	448	429	407	381	353	322
32.5°	522	512	501	491	477	460	442	419	395	366	334
30°	530	520	511	501	488	473	455	431	405	377	343
27.5°	537	530	522	511	498	484	465	442	414	384	351
25°	545	540	531	521	508	491	473	449	421	390	357
22.5°	553	547	539	529	516	498	477	454	426	393	360
20°	563	555	546	534	521	503	479	454	427	396	359
17.5°	569	560	549	538	521	501	478	451	424	392	356
15°	571	561	549	534	519	498	476	447	418	385	348
12.5°	571	559	547	530	513	493	468	439	409	376	340
10°	568	555	541	523	505	483	458	430	398	365	329
7.5°	563	549	533	516	495	473	448	418	385	353	318
5°	556	541	523	506	484	461	434	404	370	338	304
2.5°	547	531	513	492	470	447	419	389	356	325	291
0°	534	517	497	477	452	429	400	371	339	308	276
-2.5°	519	501	480	460	436	411	384	355	323	292	263
-5°	502	482	461	439	417	390	363	334	303	275	247
-7.5°	482	462	440	418	396	369	343	315	285	259	233
-10°	460	439	417	396	372	348	322	294	268	243	217
-12.5°	435	414	393	371	348	325	300	274	250	227	202
-15°	406	387	365	344	323	300	276	252	232	210	186
-17.5°	375	356	337	319	297	276	254	233	213	192	171
-20°	343	325	309	291	271	251	230	212	194	174	155



REPORT NUMBER: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	310	295	279	262	244	225	208	192	174	156	138
-25°	277	264	248	233	217	201	186	171	155	137	122
-27.5°	245	233	219	205	190	177	165	150	134	119	104
-30°	214	202	190	177	166	154	142	128	114	101	87
-32.5°	183	172	161	152	142	131	119	106	94	82	71
-35°	150	143	134	126	117	106	95	86	76	65	56
-37.5°	122	115	108	100	91	82	75	66	57	49	42
-40°	94	88	82	75	68	61	54	48	42	36	30
-42.5°	66	60	56	52	47	42	36	32	27	23	19
-45°	42	38	35	32	27	25	23	20	16	14	10
-47.5°	23	20	17	17	15	13	12	10	9	7	6
-50°	9	9	10	8	8	6	6	5	5	4	3
-52.5°	5	5	6	5	5	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: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

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	8	5	4	3	2	2	2	1	1	1
75°	19	16	12	9	6	4	3	2	2	1	1
72.5°	36	29	22	16	11	8	5	3	2	2	1
70°	54	44	35	26	18	12	8	5	2	2	2
67.5°	75	63	51	37	26	18	11	7	4	2	2
65°	98	80	67	50	36	24	16	9	5	3	2
62.5°	118	96	79	62	45	32	20	13	6	4	2
60°	136	113	91	74	56	39	26	16	8	4	3
57.5°	156	132	106	86	66	47	33	20	11	5	3
55°	174	149	119	95	75	54	38	24	13	7	3
52.5°	188	162	133	105	83	62	44	29	17	8	4
50°	199	173	146	118	92	69	50	33	20	9	5
47.5°	216	187	159	130	103	77	56	38	23	12	5
45°	233	202	171	141	113	85	62	42	26	14	6
42.5°	248	216	184	152	122	94	68	46	29	17	8
40°	263	230	197	163	131	100	73	51	32	18	9
37.5°	278	243	209	174	140	108	79	54	34	20	10
35°	289	255	221	183	148	115	85	58	37	22	11
32.5°	300	265	228	192	155	121	89	62	39	23	11
30°	309	273	235	198	159	125	94	65	41	23	11
27.5°	316	279	240	202	163	128	96	66	42	24	12
25°	320	283	243	205	166	130	97	68	44	25	12
22.5°	323	282	244	206	167	131	98	69	45	26	12
20°	321	281	242	205	167	131	98	69	45	26	12
17.5°	317	277	239	202	165	130	98	69	45	26	11
15°	311	272	234	198	162	128	97	69	45	25	11
12.5°	303	265	228	193	159	125	95	67	44	24	11
10°	293	257	220	187	153	122	92	66	42	23	11
7.5°	282	247	211	180	148	118	89	63	41	22	10
5°	269	236	202	173	143	113	86	61	39	20	9
2.5°	257	227	193	165	137	108	82	59	37	19	8
0°	242	214	183	156	130	102	77	55	34	17	7
-2.5°	231	204	174	149	123	97	73	51	31	15	7
-5°	218	192	165	140	116	91	66	47	29	14	6
-7.5°	205	180	154	131	107	84	61	42	25	11	5
-10°	193	168	143	122	99	76	55	37	21	9	5
-12.5°	179	156	133	112	90	69	49	33	18	8	5
-15°	165	142	122	101	81	61	44	28	15	7	5
-17.5°	151	128	110	91	72	54	38	23	13	6	4
-20°	135	115	98	80	62	46	32	19	11	5	4



REPORT NUMBER: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	119	102	86	69	53	39	26	14	8	5	3
-25°	103	89	74	58	44	32	20	11	6	4	3
-27.5°	89	76	62	48	36	25	16	8	5	3	3
-30°	76	63	51	38	27	19	12	7	4	3	2
-32.5°	61	50	39	29	20	14	8	5	3	3	2
-35°	48	38	29	20	14	10	6	3	3	3	2
-37.5°	36	26	20	14	9	7	5	2	2	2	2
-40°	23	17	13	9	6	5	3	2	2	3	2
-42.5°	14	11	8	5	5	4	2	2	2	3	2
-45°	8	6	5	4	4	4	2	2	2	2	2
-47.5°	5	5	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: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

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°	5	2	3	2	1	1	0
35°	5	2	2	2	1	1	0
32.5°	5	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°	5	2	2	2	1	1	0
20°	5	2	2	2	1	1	0
17.5°	4	3	2	2	1	1	0
15°	5	3	2	2	1	1	0
12.5°	5	3	2	2	1	1	0
10°	5	3	2	2	1	1	0
7.5°	5	3	2	2	1	1	0
5°	5	3	2	2	1	1	0
2.5°	5	3	2	2	1	1	0
0°	5	3	2	2	1	1	0
-2.5°	5	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: P132879

CATALOG NUMBER: XTOR2A-WT-XTORFLD+VISOR+IMPACT SHIELD

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)