

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: P132880

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P132880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P132879)  
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+IMPACT SHIELD  
Description: LUMARK CROSSTOUR 20W LED WALL PACK WITH WHITE HOUSING  
HOUSING  
Light Source: [1] 3500K LED  
Ballast/Driver: [1] ELECTRONIC DRIVER

**Summary**

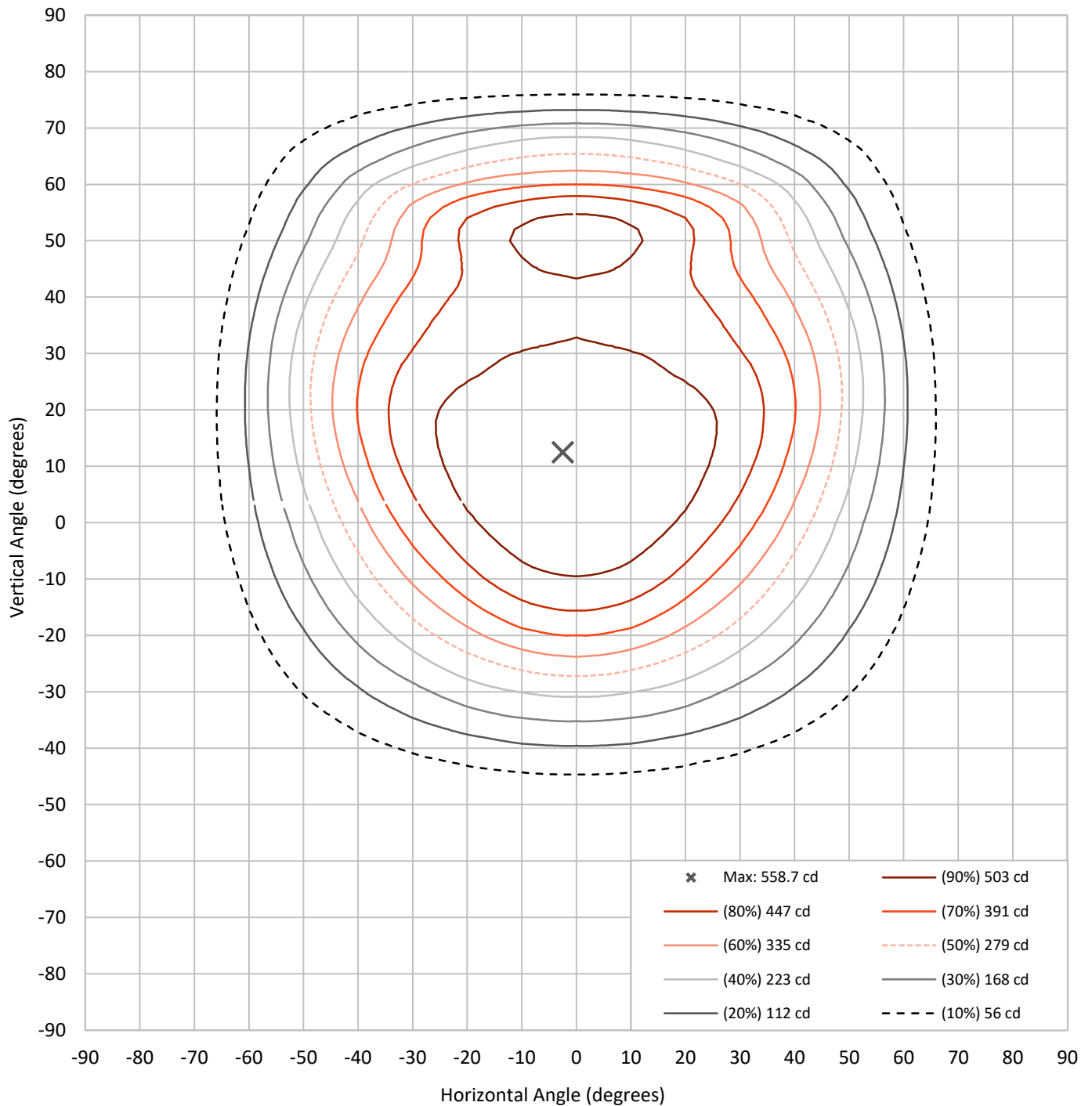
Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	1138.5 lumens	Max Intensity:	558.7 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 12.5°V
Efficacy:	63.2 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.46' x L: 0.12' x H: 0.1')		
Beam Angle (50%):	95°H x 92.5°V	Field Angle (10%):	131.4°H x 120.5°V
Beam Lumens:	881.9 lumens	Field Lumens:	1115.7 lumens
Beam Efficiency:	77.5%	Field Efficiency:	98.0%
Input Watts (W):	18		
Input Voltage (V):	NR		
Input Current (A <sub>in</sub> ):	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: P132880

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

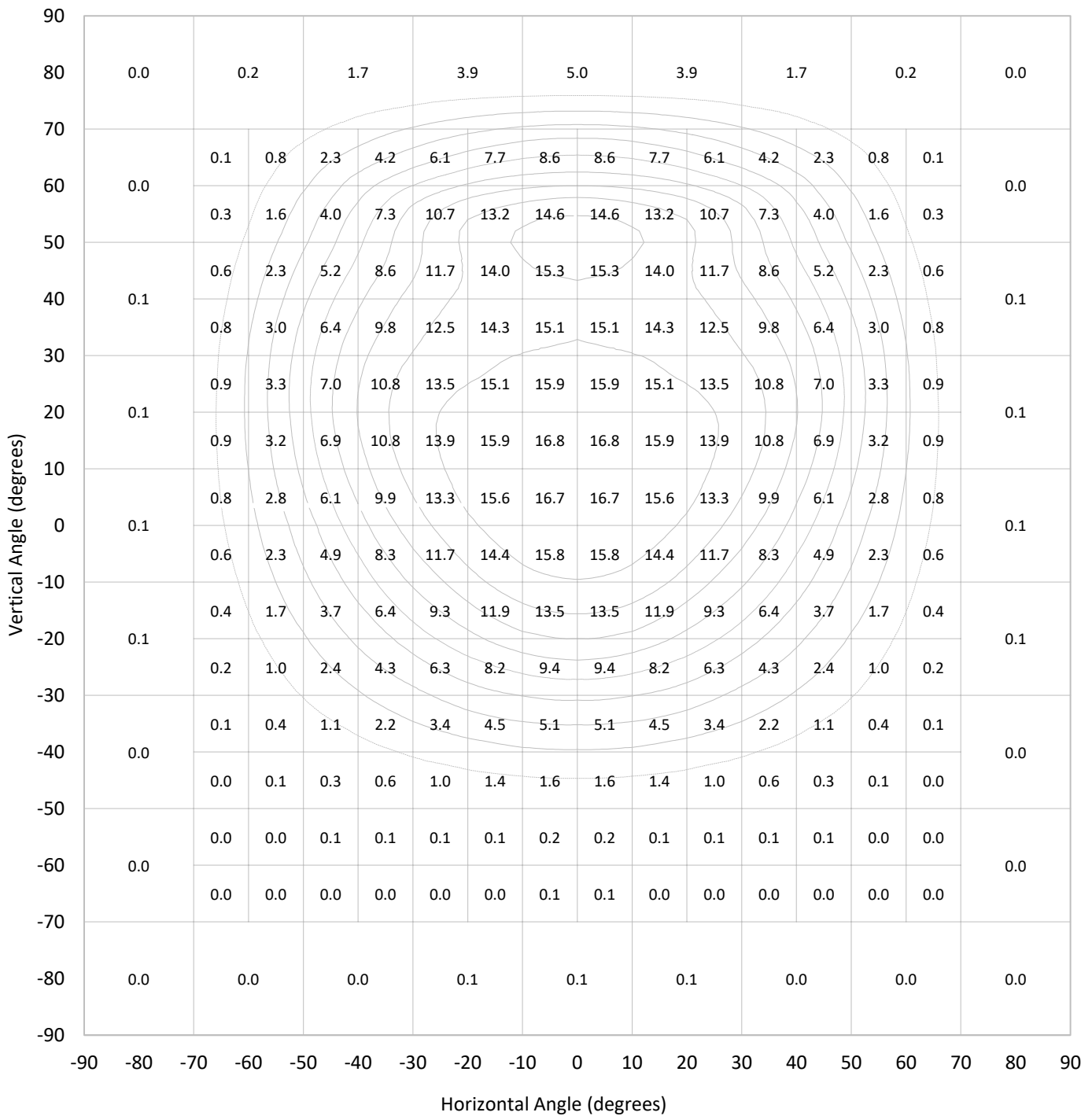
### Iso-Candela Plot





REPORT NUMBER: P132880  
 CATALOG NUMBER: XTOR2A-N-WT-XTORFLD+VISOR+IMPACT SHIELD

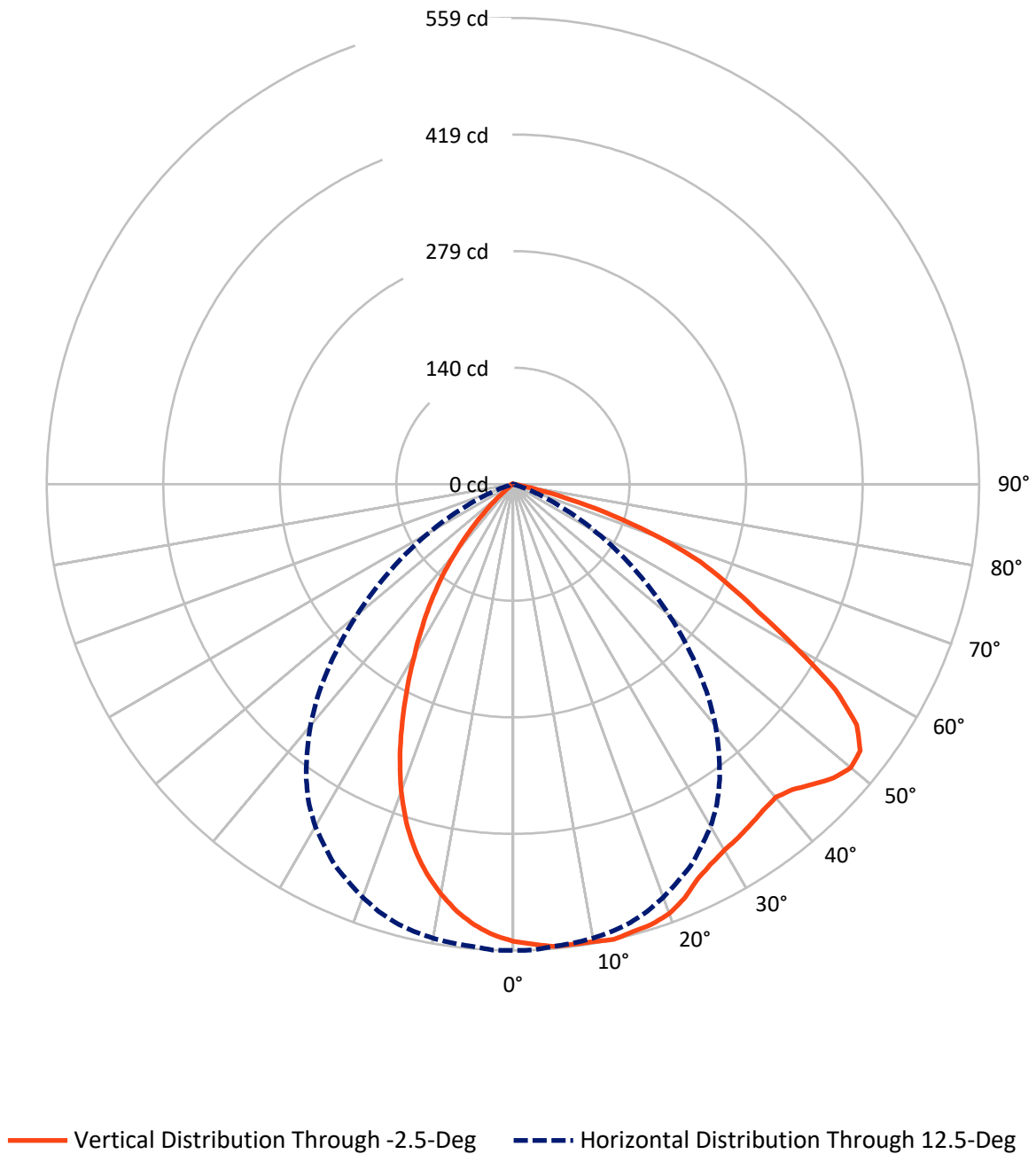
### Lumen Table



REPORT NUMBER: P132880

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

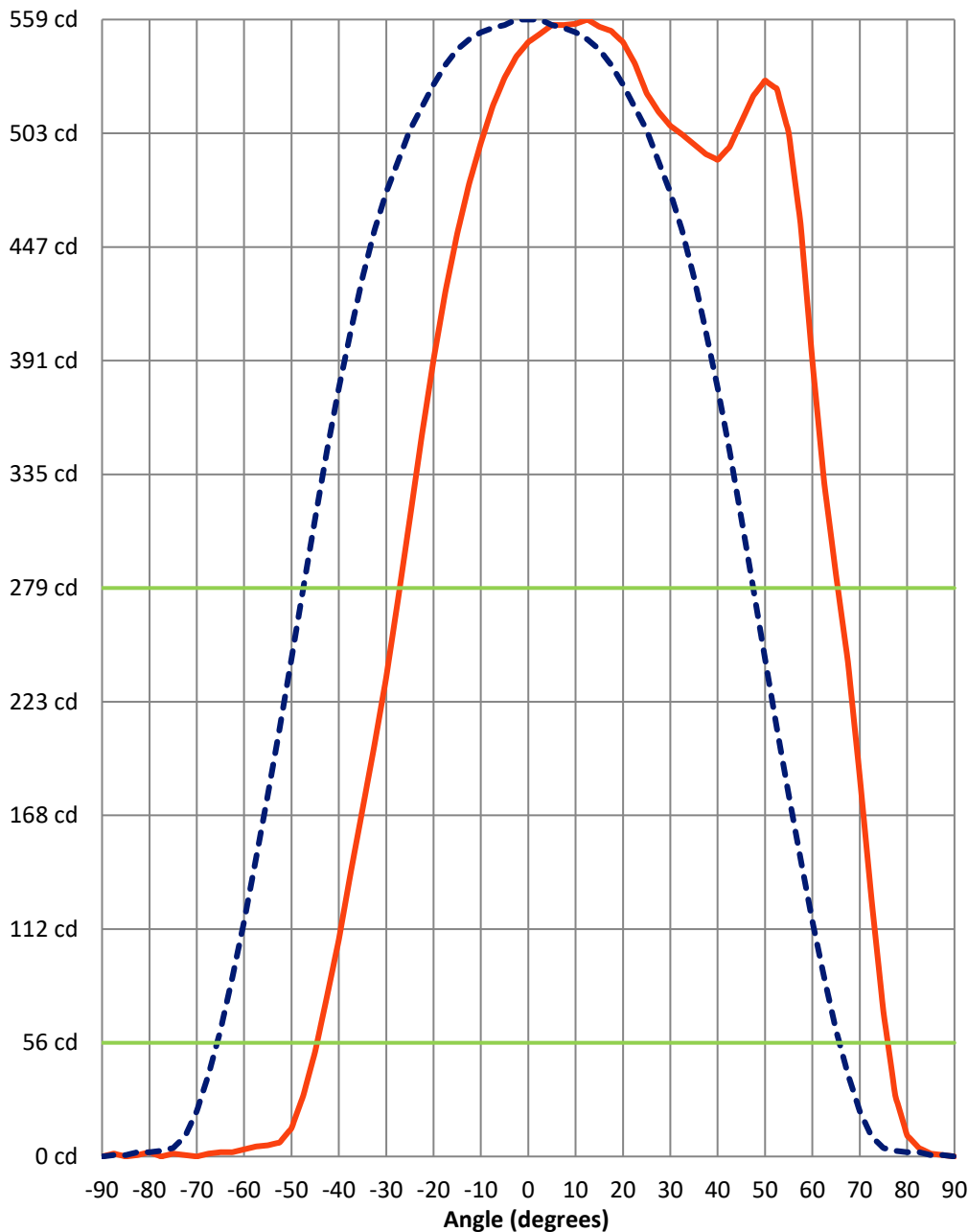
### Luminous Intensity Polar Plot



REPORT NUMBER: P132880

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

### Luminous Intensity Plot



**Beam:**  
 H Angle: 95°  
 V Angle: 92.5°  
 Lumens: 881.9  
 Efficiency: 77.5%

**Field:**  
 H Angle: 131.4°  
 V Angle: 120.5°  
 Lumens: 1115.7  
 Efficiency: 98.0%

**Spill:**  
 Lumens: 22.8  
 Efficiency: 2.0%

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



REPORT NUMBER: P132880

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

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	1
77.5°	0	0	0	1	1	1	1	1	1	1	1
75°	0	0	1	1	1	1	1	1	1	1	2
72.5°	0	0	1	1	1	1	1	1	1	2	3
70°	0	0	1	1	1	1	1	1	1	2	4
67.5°	0	0	1	1	1	1	1	1	2	4	6
65°	0	0	1	1	1	1	1	2	3	4	8
62.5°	0	0	1	1	1	1	2	2	4	6	12
60°	0	0	1	1	1	1	2	3	4	8	15
57.5°	0	1	1	1	1	2	2	3	5	10	18
55°	0	1	1	1	1	2	2	3	6	12	22
52.5°	0	1	1	1	2	2	2	4	7	15	27
50°	0	1	1	1	2	2	2	4	8	18	31
47.5°	0	1	1	1	2	2	2	5	11	21	35
45°	0	1	1	1	2	2	3	6	13	24	38
42.5°	0	1	1	1	3	2	4	7	15	27	43
40°	0	1	1	2	3	2	4	8	17	29	47
37.5°	0	1	1	2	3	2	4	9	19	31	50
35°	0	1	1	2	2	2	4	10	20	34	54
32.5°	0	1	1	2	2	2	4	10	21	36	57
30°	0	1	1	2	2	2	5	10	22	38	60
27.5°	0	1	1	2	2	2	5	11	22	39	61
25°	0	1	1	2	2	2	5	11	23	40	63
22.5°	0	1	1	2	2	2	4	11	24	41	63
20°	0	1	1	2	2	2	4	11	24	42	64
17.5°	0	1	1	2	2	3	4	10	24	42	64
15°	0	1	1	2	2	3	4	10	23	41	63
12.5°	0	1	1	2	2	3	4	10	22	39	61
10°	0	1	1	2	2	3	4	10	22	39	61
7.5°	0	1	1	2	2	3	4	9	20	38	59
5°	0	1	1	2	2	3	4	8	19	36	56
2.5°	0	1	1	2	2	3	4	7	17	34	54
0°	0	1	1	2	2	3	4	6	15	31	51
-2.5°	0	1	1	2	2	3	4	6	14	29	47
-5°	0	1	1	2	2	3	4	6	13	27	43
-7.5°	0	1	1	2	2	3	4	5	10	23	38
-10°	0	1	1	2	2	3	4	5	8	20	34
-12.5°	0	1	1	2	2	2	3	4	7	17	30
-15°	0	1	1	1	2	2	3	4	6	14	26
-17.5°	0	1	1	1	2	2	3	4	6	12	22
-20°	0	1	1	1	2	2	3	4	5	10	17



REPORT NUMBER: P132880

CATALOG NUMBER: XTOR2A-N-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	1	2	2	2	3	4	8	13
-25°	0	1	1	1	2	2	2	3	4	6	10
-27.5°	0	1	1	1	2	2	2	3	3	4	8
-30°	0	1	1	1	1	2	2	2	3	4	6
-32.5°	0	1	1	1	1	2	1	2	3	3	4
-35°	0	1	1	1	1	2	1	2	3	3	3
-37.5°	0	1	1	1	1	1	1	2	2	2	2
-40°	0	1	1	1	1	1	1	2	3	2	2
-42.5°	0	1	1	0	1	1	1	2	3	2	2
-45°	0	1	1	0	1	1	1	1	2	2	2
-47.5°	0	1	1	0	1	1	1	1	2	2	2
-50°	0	1	1	0	1	1	1	1	2	2	1
-52.5°	0	1	1	0	1	1	1	1	1	2	1
-55°	0	1	1	0	1	1	1	1	1	1	1
-57.5°	0	1	1	0	1	1	1	1	1	1	1
-60°	0	0	1	1	1	1	1	1	1	1	1
-62.5°	0	0	1	1	1	1	1	1	1	0	1
-65°	0	0	1	1	1	1	1	1	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	1
-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





REPORT NUMBER: P132880

CATALOG NUMBER: XTOR2A-N-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	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	2	2
80°	1	1	1	2	2	3	3	4	4	4	6
77.5°	1	2	3	4	4	7	8	10	12	13	14
75°	3	4	6	8	11	15	17	22	27	30	34
72.5°	4	7	10	15	20	27	33	39	45	53	60
70°	7	11	17	24	32	40	50	59	68	79	89
67.5°	10	17	24	34	47	58	69	81	93	105	118
65°	15	22	33	46	62	74	91	105	119	135	148
62.5°	19	29	42	57	72	89	109	126	148	165	183
60°	24	36	52	68	84	105	125	147	173	198	219
57.5°	30	43	61	80	98	122	144	168	195	221	249
55°	35	50	69	88	110	137	161	187	215	242	271
52.5°	40	57	77	97	123	149	174	202	229	258	286
50°	46	64	85	109	135	160	184	214	240	270	298
47.5°	52	71	95	120	146	173	199	228	253	282	307
45°	57	79	104	130	158	186	215	242	270	296	320
42.5°	63	86	113	140	170	199	229	258	286	311	335
40°	68	93	121	150	182	213	242	272	300	325	349
37.5°	73	100	129	160	193	224	256	286	313	339	362
35°	78	106	137	169	204	235	267	298	325	352	376
32.5°	82	112	143	177	210	245	277	308	338	364	387
30°	86	115	147	183	217	252	285	316	348	374	398
27.5°	89	118	150	186	222	257	291	324	355	382	408
25°	90	120	153	189	224	261	295	330	360	389	415
22.5°	91	121	154	190	225	261	298	332	363	393	419
20°	91	121	154	189	224	259	296	332	365	394	419
17.5°	91	120	152	186	220	256	293	328	362	392	417
15°	89	118	150	183	216	251	287	321	355	386	412
12.5°	88	116	146	178	210	245	279	314	347	378	405
10°	85	112	141	173	203	237	270	304	337	367	396
7.5°	82	109	137	166	195	228	260	293	325	355	386
5°	80	105	132	160	187	218	248	281	312	341	373
2.5°	76	100	127	153	178	209	237	269	300	328	359
0°	71	94	120	144	169	197	224	254	284	313	342
-2.5°	67	89	114	137	161	188	213	242	270	298	327
-5°	61	84	107	129	152	177	201	228	254	280	309
-7.5°	56	77	99	121	142	167	190	215	239	263	291
-10°	51	70	91	112	132	155	178	201	224	247	272
-12.5°	45	63	83	103	123	144	165	187	209	231	253
-15°	40	56	75	93	112	131	153	172	194	214	233
-17.5°	35	50	66	84	102	118	139	158	177	197	215
-20°	29	43	57	74	91	106	125	143	160	179	196



REPORT NUMBER: P132880

CATALOG NUMBER: XTOR2A-N-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°	24	36	49	63	80	94	110	128	144	161	177
-25°	19	29	40	54	68	82	95	112	127	143	158
-27.5°	15	23	33	44	57	70	82	96	110	123	139
-30°	11	17	25	35	47	58	70	80	93	105	118
-32.5°	8	13	19	27	36	46	56	66	76	87	98
-35°	6	9	13	19	27	35	44	52	60	70	80
-37.5°	4	6	8	13	18	24	33	39	45	53	61
-40°	3	5	6	8	12	16	22	28	33	38	44
-42.5°	2	4	4	4	8	10	13	17	22	25	29
-45°	2	4	4	4	5	6	8	9	13	15	18
-47.5°	2	3	4	4	4	4	4	6	6	8	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	1	1	3	3	2	2	3	3
-57.5°	1	2	2	1	1	1	2	2	2	2	2
-60°	1	1	1	1	1	1	1	1	1	2	2
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	0	0	1	0	1	1	1	1	1	1
-67.5°	1	0	0	1	1	1	1	1	1	1	1
-70°	1	0	0	1	1	1	1	1	1	1	1
-72.5°	1	1	0	1	1	1	1	1	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	1	1	1	1
-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: P132880

CATALOG NUMBER: XTOR2A-N-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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	3	3	3	3	4	4	4	4	4	4	4
80°	7	7	8	8	8	8	8	9	10	10	10
77.5°	16	18	20	22	24	25	26	27	27	29	29
75°	37	40	45	49	53	56	59	61	64	66	68
72.5°	66	72	79	86	92	98	103	108	113	117	120
70°	98	108	117	126	135	144	153	160	167	173	178
67.5°	131	144	155	168	179	190	200	209	217	225	232
65°	164	179	193	205	218	231	242	253	261	268	275
62.5°	201	218	234	249	263	275	288	300	309	316	322
60°	242	263	280	298	315	329	343	355	365	373	380
57.5°	276	300	326	344	364	383	398	410	422	432	441
55°	300	327	356	378	401	421	440	452	465	476	486
52.5°	316	342	369	395	418	438	459	473	486	497	507
50°	324	350	375	399	421	440	459	475	489	502	511
47.5°	332	355	378	399	419	438	455	470	484	495	504
45°	342	364	384	403	421	438	451	463	475	486	495
42.5°	355	377	396	412	427	441	454	463	474	481	488
40°	370	391	408	424	438	451	461	468	475	481	486
37.5°	384	403	420	435	448	458	467	474	479	484	488
35°	396	414	431	445	457	465	472	480	487	490	494
32.5°	408	424	440	453	463	472	481	487	493	496	499
30°	420	436	450	462	472	480	489	494	499	502	504
27.5°	429	447	460	472	481	489	495	500	504	508	510
25°	436	454	469	481	490	498	503	507	511	516	519
22.5°	440	460	477	488	497	505	510	516	521	525	530
20°	442	464	481	493	504	512	520	525	530	536	541
17.5°	441	463	481	496	507	517	525	532	539	544	548
15°	440	460	479	493	507	518	527	536	543	548	552
12.5°	432	455	474	489	504	516	527	536	544	549	552
10°	423	446	466	483	499	512	525	535	543	548	551
7.5°	413	437	457	476	492	507	520	530	539	544	550
5°	401	426	447	467	483	500	513	525	533	541	548
2.5°	387	412	434	454	474	490	504	516	527	536	543
0°	369	396	417	440	459	477	493	506	518	528	536
-2.5°	354	379	402	424	443	463	479	493	506	518	526
-5°	335	360	385	405	426	445	463	479	492	504	513
-7.5°	316	341	365	386	406	426	445	461	475	488	500
-10°	297	321	343	365	385	405	424	443	456	469	480
-12.5°	277	300	321	342	362	382	401	419	435	449	459
-15°	255	277	298	318	337	357	375	394	409	424	435
-17.5°	234	255	275	294	311	329	346	364	380	394	408
-20°	213	232	250	268	285	300	316	332	348	361	373



REPORT NUMBER: P132880

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

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	192	208	225	242	258	272	286	299	312	324	335
-25°	172	185	200	215	229	244	256	266	277	288	297
-27.5°	152	164	176	189	202	215	226	236	244	251	259
-30°	131	142	153	163	176	187	197	207	215	220	225
-32.5°	109	121	131	140	148	159	169	177	185	190	194
-35°	88	98	108	116	124	132	139	146	153	160	163
-37.5°	69	76	84	93	100	106	112	117	122	128	132
-40°	50	56	63	69	75	81	86	91	94	98	102
-42.5°	33	38	43	48	52	56	61	66	69	71	74
-45°	21	23	25	29	32	35	38	41	44	47	48
-47.5°	11	12	14	15	16	18	21	22	24	26	27
-50°	6	6	7	8	9	8	8	10	11	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	1	2	2	2	2	3
-62.5°	2	1	1	1	1	1	1	1	1	2	2
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	2	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	0
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-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°	1	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: P132880

CATALOG NUMBER: XTOR2A-N-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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	4	4	4	4	4	4	4	4	4	4	4
80°	10	10	10	11	10	10	10	10	10	10	9
77.5°	29	30	30	29	30	30	29	29	29	27	27
75°	69	71	71	71	71	71	69	68	66	64	61
72.5°	123	126	126	126	126	126	123	120	117	113	108
70°	182	186	187	187	187	186	182	178	173	167	160
67.5°	237	242	243	244	243	242	237	232	225	217	209
65°	280	284	286	286	286	284	280	275	268	261	253
62.5°	326	329	331	332	331	329	326	322	316	309	300
60°	385	389	391	390	391	389	385	380	373	365	355
57.5°	449	454	458	460	458	454	449	441	432	422	410
55°	493	499	503	504	503	499	493	486	476	465	452
52.5°	516	521	525	525	525	521	516	507	497	486	473
50°	519	525	529	531	529	525	519	511	502	489	475
47.5°	512	518	521	523	521	518	512	504	495	484	470
45°	502	507	509	511	509	507	502	495	486	475	463
42.5°	493	495	496	498	496	495	493	488	481	474	463
40°	488	489	490	490	490	489	488	486	481	475	468
37.5°	491	492	493	494	493	492	491	488	484	479	474
35°	496	497	497	499	497	497	496	494	490	487	480
32.5°	500	502	502	504	502	502	500	499	496	493	487
30°	505	505	507	507	507	505	505	504	502	499	494
27.5°	511	512	513	514	513	512	511	510	508	504	500
25°	520	523	523	524	523	523	520	519	516	511	507
22.5°	532	535	537	539	537	535	532	530	525	521	516
20°	543	546	548	550	548	546	543	541	536	530	525
17.5°	550	552	553	554	553	552	550	548	544	539	532
15°	554	555	555	556	555	555	554	552	548	543	536
12.5°	555	556	559	559	559	556	555	552	549	544	536
10°	554	556	557	558	557	556	554	551	548	543	535
7.5°	554	556	556	557	556	556	554	550	544	539	530
5°	552	555	556	557	556	555	552	548	541	533	525
2.5°	548	551	552	553	552	551	548	543	536	527	516
0°	542	545	548	548	548	545	542	536	528	518	506
-2.5°	533	539	541	541	541	539	533	526	518	506	493
-5°	521	527	530	532	530	527	521	513	504	492	479
-7.5°	507	513	516	516	516	513	507	500	488	475	461
-10°	490	495	498	500	498	495	490	480	469	456	443
-12.5°	468	475	478	479	478	475	468	459	449	435	419
-15°	443	449	454	454	454	449	443	435	424	409	394
-17.5°	415	421	425	425	425	421	415	408	394	380	364
-20°	380	387	392	391	392	387	380	373	361	348	332



REPORT NUMBER: P132880

CATALOG NUMBER: XTOR2A-N-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°	343	350	354	357	354	350	343	335	324	312	299
-25°	305	310	314	315	314	310	305	297	288	277	266
-27.5°	266	271	274	274	274	271	266	259	251	244	236
-30°	229	233	235	235	235	233	229	225	220	215	207
-32.5°	197	201	202	201	202	201	197	194	190	185	177
-35°	166	169	171	170	171	169	166	163	160	153	146
-37.5°	135	137	139	139	139	137	135	132	128	122	117
-40°	104	105	107	106	107	105	104	102	98	94	91
-42.5°	77	77	79	79	79	77	77	74	71	69	66
-45°	50	51	52	51	52	51	50	48	47	44	41
-47.5°	27	29	30	30	30	29	27	27	26	24	22
-50°	14	14	14	13	14	14	14	13	12	11	10
-52.5°	8	8	7	7	7	8	8	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	1	1
-65°	1	2	2	1	2	2	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-70°	0	0	0	0	0	0	0	0	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-75°	1	2	1	0	1	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	1	1	1	1	1	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	1	1	1	2	1	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P132880

CATALOG NUMBER: XTOR2A-N-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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	4	4	4	3	3	3	3	2	2	1	1
80°	8	8	8	8	8	7	7	6	4	4	4
77.5°	26	25	24	22	20	18	16	14	13	12	10
75°	59	56	53	49	45	40	37	34	30	27	22
72.5°	103	98	92	86	79	72	66	60	53	45	39
70°	153	144	135	126	117	108	98	89	79	68	59
67.5°	200	190	179	168	155	144	131	118	105	93	81
65°	242	231	218	205	193	179	164	148	135	119	105
62.5°	288	275	263	249	234	218	201	183	165	148	126
60°	343	329	315	298	280	263	242	219	198	173	147
57.5°	398	383	364	344	326	300	276	249	221	195	168
55°	440	421	401	378	356	327	300	271	242	215	187
52.5°	459	438	418	395	369	342	316	286	258	229	202
50°	459	440	421	399	375	350	324	298	270	240	214
47.5°	455	438	419	399	378	355	332	307	282	253	228
45°	451	438	421	403	384	364	342	320	296	270	242
42.5°	454	441	427	412	396	377	355	335	311	286	258
40°	461	451	438	424	408	391	370	349	325	300	272
37.5°	467	458	448	435	420	403	384	362	339	313	286
35°	472	465	457	445	431	414	396	376	352	325	298
32.5°	481	472	463	453	440	424	408	387	364	338	308
30°	489	480	472	462	450	436	420	398	374	348	316
27.5°	495	489	481	472	460	447	429	408	382	355	324
25°	503	498	490	481	469	454	436	415	389	360	330
22.5°	510	505	497	488	477	460	440	419	393	363	332
20°	520	512	504	493	481	464	442	419	394	365	332
17.5°	525	517	507	496	481	463	441	417	392	362	328
15°	527	518	507	493	479	460	440	412	386	355	321
12.5°	527	516	504	489	474	455	432	405	378	347	314
10°	525	512	499	483	466	446	423	396	367	337	304
7.5°	520	507	492	476	457	437	413	386	355	325	293
5°	513	500	483	467	447	426	401	373	341	312	281
2.5°	504	490	474	454	434	412	387	359	328	300	269
0°	493	477	459	440	417	396	369	342	313	284	254
-2.5°	479	463	443	424	402	379	354	327	298	270	242
-5°	463	445	426	405	385	360	335	309	280	254	228
-7.5°	445	426	406	386	365	341	316	291	263	239	215
-10°	424	405	385	365	343	321	297	272	247	224	201
-12.5°	401	382	362	342	321	300	277	253	231	209	187
-15°	375	357	337	318	298	277	255	233	214	194	172
-17.5°	346	329	311	294	275	255	234	215	197	177	158
-20°	316	300	285	268	250	232	213	196	179	160	143



REPORT NUMBER: P132880

CATALOG NUMBER: XTOR2A-N-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°	286	272	258	242	225	208	192	177	161	144	128
-25°	256	244	229	215	200	185	172	158	143	127	112
-27.5°	226	215	202	189	176	164	152	139	123	110	96
-30°	197	187	176	163	153	142	131	118	105	93	80
-32.5°	169	159	148	140	131	121	109	98	87	76	66
-35°	139	132	124	116	108	98	88	80	70	60	52
-37.5°	112	106	100	93	84	76	69	61	53	45	39
-40°	86	81	75	69	63	56	50	44	38	33	28
-42.5°	61	56	52	48	43	38	33	29	25	22	17
-45°	38	35	32	29	25	23	21	18	15	13	9
-47.5°	21	18	16	15	14	12	11	9	8	6	6
-50°	8	8	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	1	2	2	2	2	2	2	2	1	1
-62.5°	1	1	1	1	1	1	2	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	2	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-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	1	1	1	1	1
-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: P132880

CATALOG NUMBER: XTOR2A-N-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	1	1	1	1	1	1	1	1
80°	3	3	2	2	1	1	1	1	1	1	1
77.5°	8	7	4	4	3	2	1	1	1	1	1
75°	17	15	11	8	6	4	3	2	1	1	1
72.5°	33	27	20	15	10	7	4	3	2	1	1
70°	50	40	32	24	17	11	7	4	2	1	1
67.5°	69	58	47	34	24	17	10	6	4	2	1
65°	91	74	62	46	33	22	15	8	4	3	2
62.5°	109	89	72	57	42	29	19	12	6	4	2
60°	125	105	84	68	52	36	24	15	8	4	3
57.5°	144	122	98	80	61	43	30	18	10	5	3
55°	161	137	110	88	69	50	35	22	12	6	3
52.5°	174	149	123	97	77	57	40	27	15	7	4
50°	184	160	135	109	85	64	46	31	18	8	4
47.5°	199	173	146	120	95	71	52	35	21	11	5
45°	215	186	158	130	104	79	57	38	24	13	6
42.5°	229	199	170	140	113	86	63	43	27	15	7
40°	242	213	182	150	121	93	68	47	29	17	8
37.5°	256	224	193	160	129	100	73	50	31	19	9
35°	267	235	204	169	137	106	78	54	34	20	10
32.5°	277	245	210	177	143	112	82	57	36	21	10
30°	285	252	217	183	147	115	86	60	38	22	10
27.5°	291	257	222	186	150	118	89	61	39	22	11
25°	295	261	224	189	153	120	90	63	40	23	11
22.5°	298	261	225	190	154	121	91	63	41	24	11
20°	296	259	224	189	154	121	91	64	42	24	11
17.5°	293	256	220	186	152	120	91	64	42	24	10
15°	287	251	216	183	150	118	89	63	41	23	10
12.5°	279	245	210	178	146	116	88	62	40	22	10
10°	270	237	203	173	141	112	85	61	39	22	10
7.5°	260	228	195	166	137	109	82	59	38	20	9
5°	248	218	187	160	132	105	80	56	36	19	8
2.5°	237	209	178	153	127	100	76	54	34	17	7
0°	224	197	169	144	120	94	71	51	31	15	6
-2.5°	213	188	161	137	114	89	67	47	29	14	6
-5°	201	177	152	129	107	84	61	43	27	13	6
-7.5°	190	167	142	121	99	77	56	38	23	10	5
-10°	178	155	132	112	91	70	51	34	20	8	5
-12.5°	165	144	123	103	83	63	45	30	17	7	4
-15°	153	131	112	93	75	56	40	26	14	6	4
-17.5°	139	118	102	84	66	50	35	22	12	6	4
-20°	125	106	91	74	57	43	29	17	10	5	4



REPORT NUMBER: P132880

CATALOG NUMBER: XTOR2A-N-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°	110	94	80	63	49	36	24	13	8	4	3
-25°	95	82	68	54	40	29	19	10	6	4	3
-27.5°	82	70	57	44	33	23	15	8	4	3	3
-30°	70	58	47	35	25	17	11	6	4	3	2
-32.5°	56	46	36	27	19	13	8	4	3	3	2
-35°	44	35	27	19	13	9	6	3	3	3	2
-37.5°	33	24	18	13	8	6	4	2	2	2	2
-40°	22	16	12	8	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	1
-47.5°	4	4	4	4	4	3	2	2	2	2	1
-50°	3	4	3	3	3	3	2	1	2	2	1
-52.5°	3	4	3	2	3	3	2	1	2	1	1
-55°	3	3	1	1	2	3	2	1	1	1	1
-57.5°	2	1	1	1	2	2	1	1	1	1	1
-60°	1	1	1	1	1	1	1	1	1	1	1
-62.5°	1	1	1	1	1	1	1	1	0	1	1
-65°	1	1	0	1	0	0	1	1	0	1	1
-67.5°	1	1	1	1	0	0	1	1	1	1	1
-70°	1	1	1	1	0	0	1	1	1	1	1
-72.5°	1	1	1	1	0	1	1	1	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: P132880

CATALOG NUMBER: XTOR2A-N-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°	1	1	1	1	1	0	0
65°	1	1	1	1	1	0	0
62.5°	2	1	1	1	1	0	0
60°	2	1	1	1	1	0	0
57.5°	2	2	1	1	1	1	0
55°	2	2	1	1	1	1	0
52.5°	2	2	2	1	1	1	0
50°	2	2	2	1	1	1	0
47.5°	2	2	2	1	1	1	0
45°	3	2	2	1	1	1	0
42.5°	4	2	3	1	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	1	1	1	0
-17.5°	3	2	2	1	1	1	0
-20°	3	2	2	1	1	1	0



REPORT NUMBER: P132880

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

**CANDELA DISTRIBUTION (continued):**

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