

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: P132877

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P132877
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR2A-XTORFLD+VISOR+IMPACT SHIELD
Description: LUMARK CROSSTOUR 20W LED WALL PACK WITH CARBON BRONZE HOUSING HOUSING
Light Source: [1] 5000K LED
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

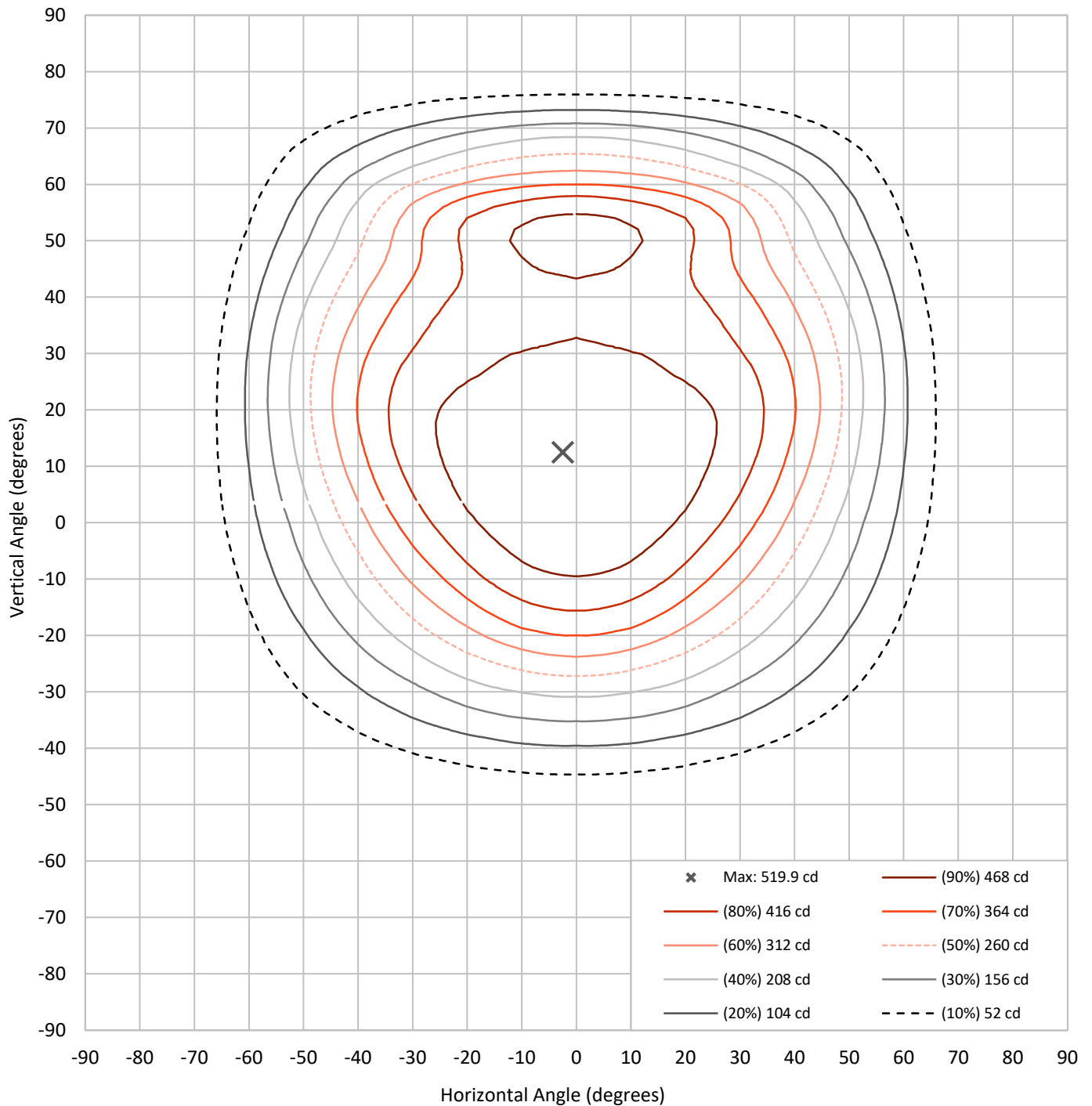
Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	1059.3 lumens	Max Intensity:	519.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 12.5°V
Efficacy:	58.8 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.12' x L: 0.46' x H: 0.1')		
Beam Angle (50%):	95°H x 92.5°V	Field Angle (10%):	131.4°H x 120.5°V
Beam Lumens:	820.5 lumens	Field Lumens:	1038.1 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		



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Iso-Candela Plot

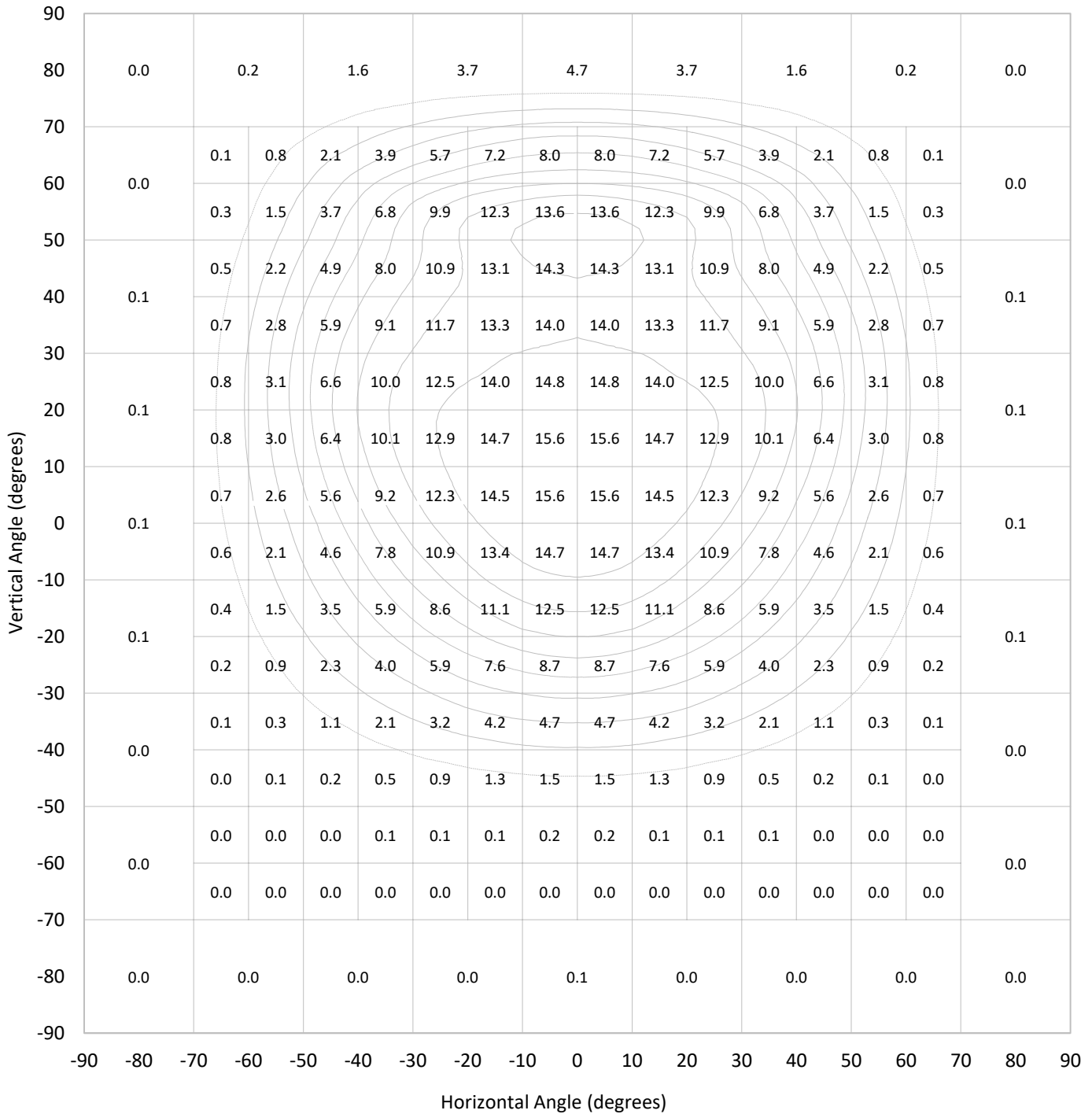




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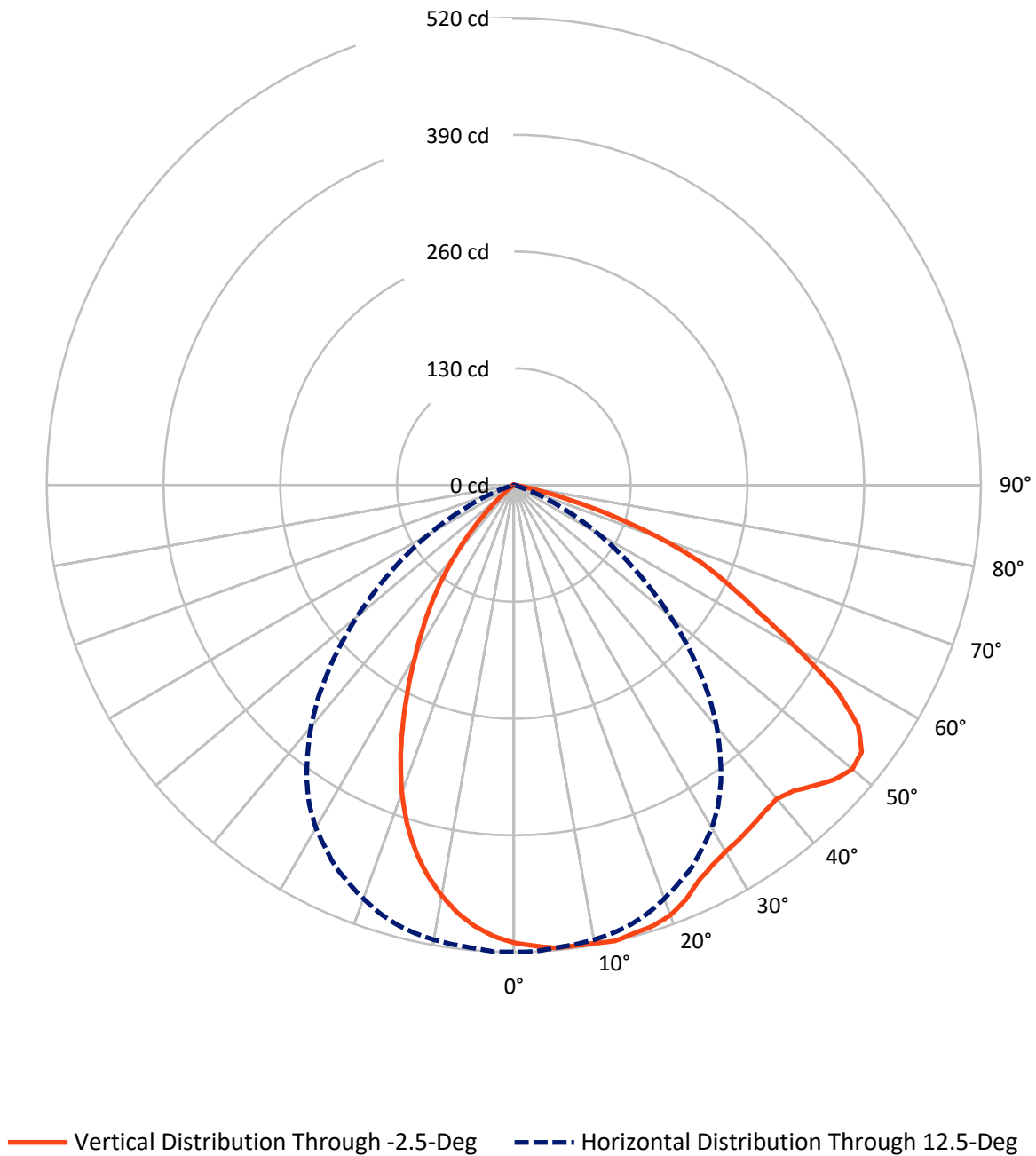
Lumen Table



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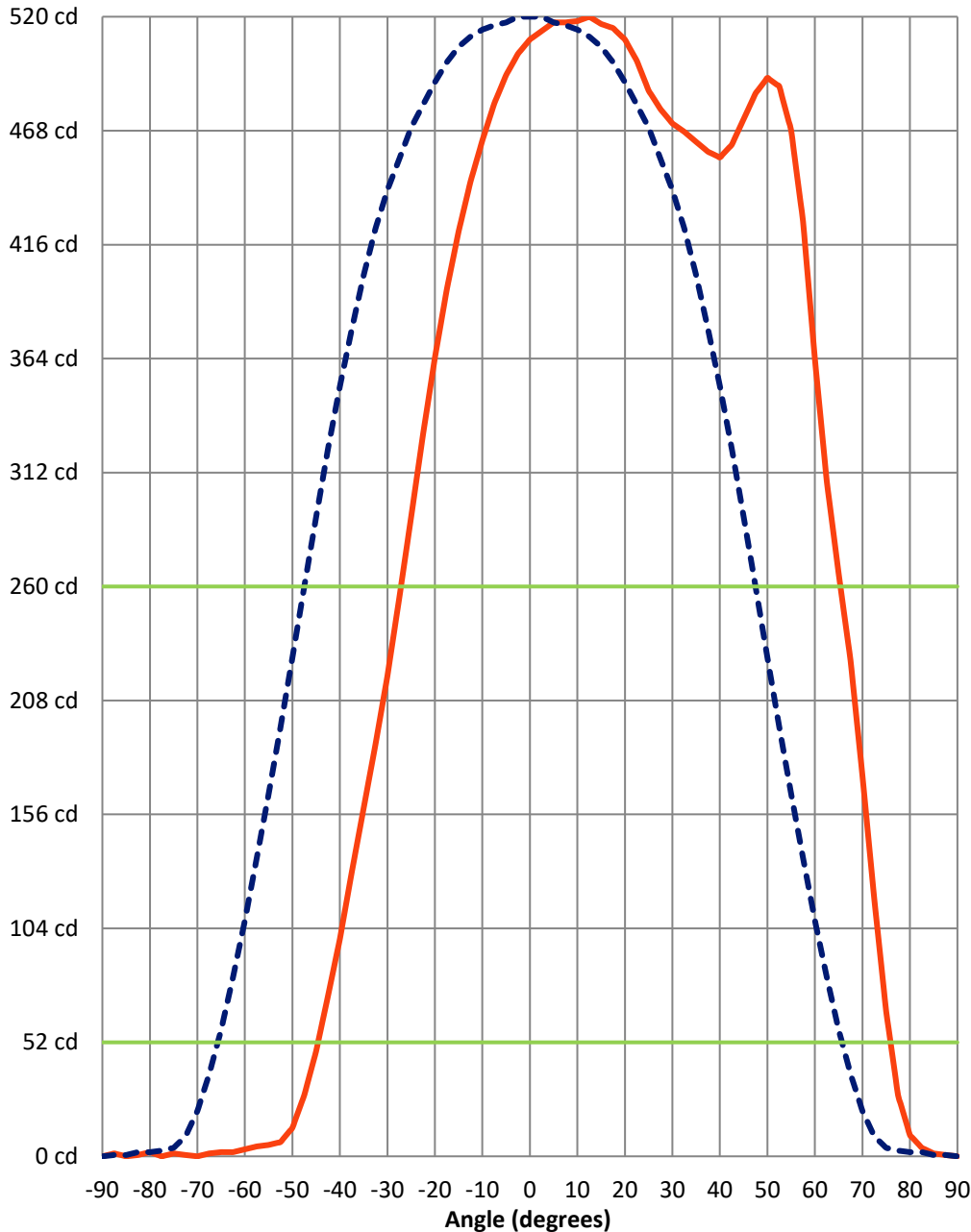
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 95°
 V Angle: 92.5°
 Lumens: 820.5
 Efficiency: 77.5%

Field:
 H Angle: 131.4°
 V Angle: 120.5°
 Lumens: 1038.1
 Efficiency: 98.0%

Spill:
 Lumens: 21.2
 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	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	3	6
65°	0	0	1	1	1	1	1	2	3	4	8
62.5°	0	0	1	1	1	1	2	2	3	5	11
60°	0	0	1	1	1	1	2	3	3	7	14
57.5°	0	1	1	1	1	2	2	3	5	9	17
55°	0	1	1	1	1	2	2	3	6	11	21
52.5°	0	1	1	1	2	2	2	3	7	14	25
50°	0	1	1	1	2	2	2	4	8	17	29
47.5°	0	1	1	1	2	2	2	5	10	19	32
45°	0	1	1	1	2	2	3	5	12	23	36
42.5°	0	1	1	1	3	2	3	7	14	25	40
40°	0	1	1	2	3	2	3	8	16	27	43
37.5°	0	1	1	2	3	2	4	8	18	29	47
35°	0	1	1	2	2	2	4	9	19	32	50
32.5°	0	1	1	2	2	2	4	10	19	34	53
30°	0	1	1	2	2	2	5	10	20	35	56
27.5°	0	1	1	2	2	2	5	10	21	36	57
25°	0	1	1	2	2	2	5	10	21	38	58
22.5°	0	1	1	2	2	2	4	10	22	38	59
20°	0	1	1	2	2	2	4	10	22	39	60
17.5°	0	1	1	2	2	3	3	10	22	39	60
15°	0	1	1	2	2	3	4	10	21	38	59
12.5°	0	1	1	2	2	3	4	9	21	38	58
10°	0	1	1	2	2	3	4	9	20	36	56
7.5°	0	1	1	2	2	3	4	8	19	35	54
5°	0	1	1	2	2	3	4	8	18	34	53
2.5°	0	1	1	2	2	3	4	7	16	32	51
0°	0	1	1	2	2	3	4	6	14	29	47
-2.5°	0	1	1	2	2	3	4	6	13	27	44
-5°	0	1	1	2	2	3	3	5	12	25	40
-7.5°	0	1	1	2	2	3	3	5	10	21	36
-10°	0	1	1	2	2	3	3	5	8	18	32
-12.5°	0	1	1	2	2	2	3	4	7	16	28
-15°	0	1	1	1	2	2	3	4	6	13	24
-17.5°	0	1	1	1	2	2	3	3	5	11	20
-20°	0	1	1	1	2	2	3	3	5	9	16



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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	2	2	2	3	4	7	12
-25°	0	1	1	1	2	2	2	3	3	5	10
-27.5°	0	1	1	1	2	2	2	3	3	4	7
-30°	0	1	1	1	1	2	2	2	3	3	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



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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	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	3	3	4	5
77.5°	1	2	3	3	4	7	8	10	11	12	13
75°	3	3	5	8	10	14	16	20	25	28	32
72.5°	4	7	10	14	19	25	31	36	42	49	56
70°	7	10	16	23	30	38	47	55	64	73	82
67.5°	10	16	23	32	43	54	64	75	86	98	110
65°	14	21	31	43	58	69	84	97	111	125	138
62.5°	18	27	39	53	67	82	101	117	137	154	171
60°	23	34	48	64	78	97	117	137	161	184	204
57.5°	28	40	57	74	91	113	134	156	182	206	231
55°	32	47	64	82	102	128	150	174	200	225	252
52.5°	38	53	71	90	114	139	161	188	213	241	266
50°	43	60	79	101	125	148	171	199	224	251	277
47.5°	48	66	88	112	136	161	185	212	235	262	286
45°	53	73	97	121	147	173	200	226	251	276	298
42.5°	58	80	105	130	158	185	213	240	266	290	312
40°	63	86	113	140	169	198	226	253	279	303	325
37.5°	68	93	120	149	180	209	239	266	291	315	337
35°	73	99	127	158	190	219	248	277	303	327	349
32.5°	77	104	133	165	196	228	258	287	314	339	360
30°	80	107	137	170	202	234	265	294	324	348	370
27.5°	82	110	140	173	206	239	271	301	330	356	380
25°	84	112	143	176	209	243	275	307	335	362	386
22.5°	84	112	143	177	209	242	277	309	338	366	390
20°	84	112	143	176	208	241	276	309	340	366	390
17.5°	84	112	141	173	205	238	272	305	336	364	388
15°	83	110	139	170	201	233	267	299	331	359	384
12.5°	82	108	136	165	196	228	260	292	323	351	377
10°	79	104	132	161	189	220	252	283	313	342	369
7.5°	77	101	127	154	182	212	242	273	303	331	359
5°	74	97	123	148	174	203	231	261	290	318	347
2.5°	71	93	118	142	166	195	220	250	279	305	334
0°	66	88	112	134	157	183	208	237	265	291	318
-2.5°	62	83	106	128	150	175	198	226	251	277	305
-5°	57	78	99	120	141	165	187	212	236	261	287
-7.5°	53	72	92	112	132	155	176	200	222	245	270
-10°	47	66	85	104	123	145	165	187	209	230	253
-12.5°	42	59	77	96	114	134	154	174	195	215	235
-15°	38	53	69	87	104	122	142	160	180	199	217
-17.5°	32	46	62	78	95	110	130	147	165	183	200
-20°	27	40	53	69	84	99	116	133	149	167	182



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CATALOG NUMBER: XTOR2A-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°	22	33	45	59	74	88	102	119	134	150	165
-25°	18	27	38	50	64	77	89	104	118	133	147
-27.5°	14	21	31	41	53	66	77	90	102	115	129
-30°	10	16	23	32	43	54	65	75	87	98	110
-32.5°	7	12	18	25	33	43	53	61	71	81	91
-35°	5	8	12	18	25	32	41	48	56	65	74
-37.5°	4	6	8	12	17	23	31	36	42	49	57
-40°	3	5	5	8	11	15	20	26	31	36	41
-42.5°	2	3	4	4	7	9	12	16	20	23	27
-45°	2	3	3	3	5	5	7	8	12	14	17
-47.5°	2	3	3	3	3	4	4	5	6	8	8
-50°	2	3	3	3	3	3	3	3	3	4	5
-52.5°	2	3	3	2	3	3	3	3	3	3	3
-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: P132877

CATALOG NUMBER: XTOR2A-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	3	3	3	3	4	4	4
80°	7	7	7	7	8	8	8	8	10	10	9
77.5°	15	17	18	20	22	23	24	25	25	27	27
75°	34	38	42	45	49	52	54	57	60	62	63
72.5°	62	67	73	80	86	91	96	101	105	109	112
70°	91	101	109	117	126	134	142	148	155	161	166
67.5°	122	134	145	156	167	176	186	195	202	209	216
65°	152	167	180	191	203	215	226	235	243	250	256
62.5°	187	203	218	232	244	256	268	279	287	294	300
60°	225	244	261	277	293	306	319	331	340	347	353
57.5°	257	279	303	320	339	357	370	382	392	402	410
55°	279	304	331	352	373	392	409	421	432	443	452
52.5°	294	318	344	368	389	408	427	440	452	463	472
50°	301	325	349	371	392	410	427	442	455	467	476
47.5°	309	330	351	371	390	407	423	438	450	460	469
45°	318	339	357	375	392	407	420	431	442	452	461
42.5°	331	351	368	384	397	410	422	431	441	448	454
40°	344	364	380	395	408	419	429	436	442	447	452
37.5°	357	375	391	405	417	427	434	441	445	451	454
35°	368	385	401	414	425	432	440	447	453	456	460
32.5°	379	395	410	421	430	440	448	453	458	462	464
30°	391	406	419	430	439	447	455	460	464	467	469
27.5°	399	416	428	439	448	455	461	465	469	473	475
25°	406	422	436	447	456	464	468	471	476	480	483
22.5°	410	428	443	454	463	470	475	480	485	489	493
20°	411	432	447	459	469	476	484	489	493	499	504
17.5°	410	430	447	462	471	481	489	495	502	506	510
15°	409	428	445	459	471	482	490	499	505	510	513
12.5°	402	423	441	455	469	480	490	499	506	511	514
10°	394	415	434	449	464	476	488	498	505	510	513
7.5°	384	406	425	443	458	471	484	493	501	506	512
5°	373	396	416	434	449	465	478	488	496	504	510
2.5°	360	384	404	423	441	456	469	480	491	499	505
0°	344	368	388	410	427	444	458	471	482	491	499
-2.5°	329	353	374	395	412	430	446	459	471	482	489
-5°	312	335	358	377	396	414	431	445	458	469	478
-7.5°	294	317	340	359	378	397	414	429	442	454	465
-10°	276	299	320	340	359	377	395	412	425	436	447
-12.5°	257	279	299	318	337	355	373	390	405	417	427
-15°	237	258	277	296	313	332	349	366	381	394	405
-17.5°	218	237	255	274	289	306	322	338	353	367	379
-20°	198	216	233	250	265	279	294	309	324	336	347



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CATALOG NUMBER: XTOR2A-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°	179	193	209	225	240	253	266	278	290	301	312
-25°	160	172	186	200	213	227	238	248	258	268	276
-27.5°	141	152	163	176	188	200	211	220	227	233	241
-30°	122	132	143	152	163	174	183	193	200	204	209
-32.5°	102	112	122	130	138	148	158	165	172	176	180
-35°	82	91	101	108	115	123	129	136	143	148	152
-37.5°	64	71	78	86	93	99	104	109	113	119	123
-40°	47	53	58	64	70	75	80	84	88	91	95
-42.5°	31	36	40	45	48	52	57	62	64	66	69
-45°	19	21	23	27	30	32	36	38	41	43	45
-47.5°	10	11	13	14	15	17	19	21	23	24	25
-50°	5	5	7	7	8	8	8	9	10	11	12
-52.5°	3	3	4	4	5	5	5	5	5	5	7
-55°	3	3	3	3	3	3	3	3	4	4	5
-57.5°	2	2	2	2	2	2	2	3	3	3	3
-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



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CATALOG NUMBER: XTOR2A-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	3	4	4	4	4	4	4	3
80°	10	10	10	10	10	10	10	9	10	10	8
77.5°	27	28	28	27	28	28	27	27	27	25	25
75°	64	66	66	66	66	66	64	63	62	60	57
72.5°	114	117	117	117	117	117	114	112	109	105	101
70°	169	173	174	174	174	173	169	166	161	155	148
67.5°	220	226	226	227	226	226	220	216	209	202	195
65°	261	264	266	266	266	264	261	256	250	243	235
62.5°	303	306	308	309	308	306	303	300	294	287	279
60°	358	362	364	363	364	362	358	353	347	340	331
57.5°	417	422	427	428	427	422	417	410	402	392	382
55°	459	464	468	469	468	464	459	452	443	432	421
52.5°	480	485	488	489	488	485	480	472	463	452	440
50°	483	488	492	494	492	488	483	476	467	455	442
47.5°	476	482	485	487	485	482	476	469	460	450	438
45°	467	471	473	476	473	471	467	461	452	442	431
42.5°	458	460	462	464	462	460	458	454	448	441	431
40°	454	455	456	456	456	455	454	452	447	442	436
37.5°	457	458	458	460	458	458	457	454	451	445	441
35°	462	463	463	464	463	463	462	460	456	453	447
32.5°	465	467	467	469	467	467	465	464	462	458	453
30°	470	470	471	472	471	470	470	469	467	464	460
27.5°	476	476	478	478	478	476	476	475	473	469	465
25°	484	486	486	487	486	486	484	483	480	476	471
22.5°	495	498	500	501	500	498	495	493	489	485	480
20°	506	508	510	511	510	508	506	504	499	493	489
17.5°	512	513	515	515	515	513	512	510	506	502	495
15°	515	516	517	517	517	516	515	513	510	505	499
12.5°	516	517	520	520	520	517	516	514	511	506	499
10°	515	517	518	519	518	517	515	513	510	505	498
7.5°	515	517	517	518	517	517	515	512	506	501	493
5°	513	516	517	518	517	516	513	510	504	496	488
2.5°	510	513	513	515	513	513	510	505	499	491	480
0°	504	508	510	510	510	508	504	499	491	482	471
-2.5°	496	501	503	504	503	501	496	489	482	471	459
-5°	485	490	493	495	493	490	485	478	469	458	445
-7.5°	472	477	480	480	480	477	472	465	454	442	429
-10°	456	460	464	465	464	460	456	447	436	425	412
-12.5°	436	441	445	446	445	441	436	427	417	405	390
-15°	412	418	422	423	422	418	412	405	394	381	366
-17.5°	386	392	395	395	395	392	386	379	367	353	338
-20°	354	360	364	364	364	360	354	347	336	324	309



REPORT NUMBER: P132877

CATALOG NUMBER: XTOR2A-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°	320	326	329	332	329	326	320	312	301	290	278
-25°	284	288	292	293	292	288	284	276	268	258	248
-27.5°	248	252	255	255	255	252	248	241	233	227	220
-30°	213	217	219	218	219	217	213	209	204	200	193
-32.5°	183	187	188	187	188	187	183	180	176	172	165
-35°	154	157	159	158	159	157	154	152	148	143	136
-37.5°	126	128	130	129	130	128	126	123	119	113	109
-40°	97	98	99	99	99	98	97	95	91	88	84
-42.5°	71	72	73	73	73	72	71	69	66	64	62
-45°	47	47	48	47	48	47	47	45	43	41	38
-47.5°	25	27	28	28	28	27	25	25	24	23	21
-50°	13	13	13	12	13	13	13	12	11	10	9
-52.5°	8	7	7	7	7	7	8	7	5	5	5
-55°	5	5	5	5	5	5	5	5	4	4	3
-57.5°	3	5	5	5	5	5	3	3	3	3	3
-60°	3	3	3	3	3	3	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	3	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: P132877

CATALOG NUMBER: XTOR2A-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°	3	3	3	3	3	3	3	2	2	1	1
80°	8	8	8	7	7	7	7	5	4	3	3
77.5°	24	23	22	20	18	17	15	13	12	11	10
75°	54	52	49	45	42	38	34	32	28	25	20
72.5°	96	91	86	80	73	67	62	56	49	42	36
70°	142	134	126	117	109	101	91	82	73	64	55
67.5°	186	176	167	156	145	134	122	110	98	86	75
65°	226	215	203	191	180	167	152	138	125	111	97
62.5°	268	256	244	232	218	203	187	171	154	137	117
60°	319	306	293	277	261	244	225	204	184	161	137
57.5°	370	357	339	320	303	279	257	231	206	182	156
55°	409	392	373	352	331	304	279	252	225	200	174
52.5°	427	408	389	368	344	318	294	266	241	213	188
50°	427	410	392	371	349	325	301	277	251	224	199
47.5°	423	407	390	371	351	330	309	286	262	235	212
45°	420	407	392	375	357	339	318	298	276	251	226
42.5°	422	410	397	384	368	351	331	312	290	266	240
40°	429	419	408	395	380	364	344	325	303	279	253
37.5°	434	427	417	405	391	375	357	337	315	291	266
35°	440	432	425	414	401	385	368	349	327	303	277
32.5°	448	440	430	421	410	395	379	360	339	314	287
30°	455	447	439	430	419	406	391	370	348	324	294
27.5°	461	455	448	439	428	416	399	380	356	330	301
25°	468	464	456	447	436	422	406	386	362	335	307
22.5°	475	470	463	454	443	428	410	390	366	338	309
20°	484	476	469	459	447	432	411	390	366	340	309
17.5°	489	481	471	462	447	430	410	388	364	336	305
15°	490	482	471	459	445	428	409	384	359	331	299
12.5°	490	480	469	455	441	423	402	377	351	323	292
10°	488	476	464	449	434	415	394	369	342	313	283
7.5°	484	471	458	443	425	406	384	359	331	303	273
5°	478	465	449	434	416	396	373	347	318	290	261
2.5°	469	456	441	423	404	384	360	334	305	279	250
0°	458	444	427	410	388	368	344	318	291	265	237
-2.5°	446	430	412	395	374	353	329	305	277	251	226
-5°	431	414	396	377	358	335	312	287	261	236	212
-7.5°	414	397	378	359	340	317	294	270	245	222	200
-10°	395	377	359	340	320	299	276	253	230	209	187
-12.5°	373	355	337	318	299	279	257	235	215	195	174
-15°	349	332	313	296	277	258	237	217	199	180	160
-17.5°	322	306	289	274	255	237	218	200	183	165	147
-20°	294	279	265	250	233	216	198	182	167	149	133



REPORT NUMBER: P132877

CATALOG NUMBER: XTOR2A-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°	266	253	240	225	209	193	179	165	150	134	119
-25°	238	227	213	200	186	172	160	147	133	118	104
-27.5°	211	200	188	176	163	152	141	129	115	102	90
-30°	183	174	163	152	143	132	122	110	98	87	75
-32.5°	158	148	138	130	122	112	102	91	81	71	61
-35°	129	123	115	108	101	91	82	74	65	56	48
-37.5°	104	99	93	86	78	71	64	57	49	42	36
-40°	80	75	70	64	58	53	47	41	36	31	26
-42.5°	57	52	48	45	40	36	31	27	23	20	16
-45°	36	32	30	27	23	21	19	17	14	12	8
-47.5°	19	17	15	14	13	11	10	8	8	6	5
-50°	8	8	8	7	7	5	5	5	4	3	3
-52.5°	5	5	5	4	4	3	3	3	3	3	3
-55°	3	3	3	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: P132877

CATALOG NUMBER: XTOR2A-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	3	3	2	1	1	1	1	1
75°	16	14	10	8	5	3	3	2	1	1	1
72.5°	31	25	19	14	10	7	4	3	2	1	1
70°	47	38	30	23	16	10	7	4	2	1	1
67.5°	64	54	43	32	23	16	10	6	3	2	1
65°	84	69	58	43	31	21	14	8	4	3	2
62.5°	101	82	67	53	39	27	18	11	5	3	2
60°	117	97	78	64	48	34	23	14	7	3	3
57.5°	134	113	91	74	57	40	28	17	9	5	3
55°	150	128	102	82	64	47	32	21	11	6	3
52.5°	161	139	114	90	71	53	38	25	14	7	3
50°	171	148	125	101	79	60	43	29	17	8	4
47.5°	185	161	136	112	88	66	48	32	19	10	5
45°	200	173	147	121	97	73	53	36	23	12	5
42.5°	213	185	158	130	105	80	58	40	25	14	7
40°	226	198	169	140	113	86	63	43	27	16	8
37.5°	239	209	180	149	120	93	68	47	29	18	8
35°	248	219	190	158	127	99	73	50	32	19	9
32.5°	258	228	196	165	133	104	77	53	34	19	10
30°	265	234	202	170	137	107	80	56	35	20	10
27.5°	271	239	206	173	140	110	82	57	36	21	10
25°	275	243	209	176	143	112	84	58	38	21	10
22.5°	277	242	209	177	143	112	84	59	38	22	10
20°	276	241	208	176	143	112	84	60	39	22	10
17.5°	272	238	205	173	141	112	84	60	39	22	10
15°	267	233	201	170	139	110	83	59	38	21	10
12.5°	260	228	196	165	136	108	82	58	38	21	9
10°	252	220	189	161	132	104	79	56	36	20	9
7.5°	242	212	182	154	127	101	77	54	35	19	8
5°	231	203	174	148	123	97	74	53	34	18	8
2.5°	220	195	166	142	118	93	71	51	32	16	7
0°	208	183	157	134	112	88	66	47	29	14	6
-2.5°	198	175	150	128	106	83	62	44	27	13	6
-5°	187	165	141	120	99	78	57	40	25	12	5
-7.5°	176	155	132	112	92	72	53	36	21	10	5
-10°	165	145	123	104	85	66	47	32	18	8	5
-12.5°	154	134	114	96	77	59	42	28	16	7	4
-15°	142	122	104	87	69	53	38	24	13	6	4
-17.5°	130	110	95	78	62	46	32	20	11	5	3
-20°	116	99	84	69	53	40	27	16	9	5	3



REPORT NUMBER: P132877

CATALOG NUMBER: XTOR2A-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°	102	88	74	59	45	33	22	12	7	4	3
-25°	89	77	64	50	38	27	18	10	5	3	3
-27.5°	77	66	53	41	31	21	14	7	4	3	3
-30°	65	54	43	32	23	16	10	6	3	3	2
-32.5°	53	43	33	25	18	12	7	4	3	3	2
-35°	41	32	25	18	12	8	5	3	3	3	2
-37.5°	31	23	17	12	8	6	4	2	2	2	2
-40°	20	15	11	8	5	5	3	2	2	3	2
-42.5°	12	9	7	4	4	3	2	2	2	3	2
-45°	7	5	5	3	3	3	2	2	2	2	1
-47.5°	4	4	3	3	3	3	2	2	2	2	1
-50°	3	3	3	3	3	3	2	1	2	2	1
-52.5°	3	3	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: P132877

CATALOG NUMBER: XTOR2A-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°	3	2	3	1	1	1	0
40°	3	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°	3	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°	3	3	2	2	1	1	0
-7.5°	3	3	2	2	1	1	0
-10°	3	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: P132877

CATALOG NUMBER: XTOR2A-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)