

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: P132878

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P132878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P132877)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR2A-N-XTORFLD+VISOR+IMPACT SHIELD
Description: LUMARK CROSSTOUR 20W LED WALL PACK WITH CARBON BRONZE HOUSING HOUSING
Light Source: [1] 3500K LED
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

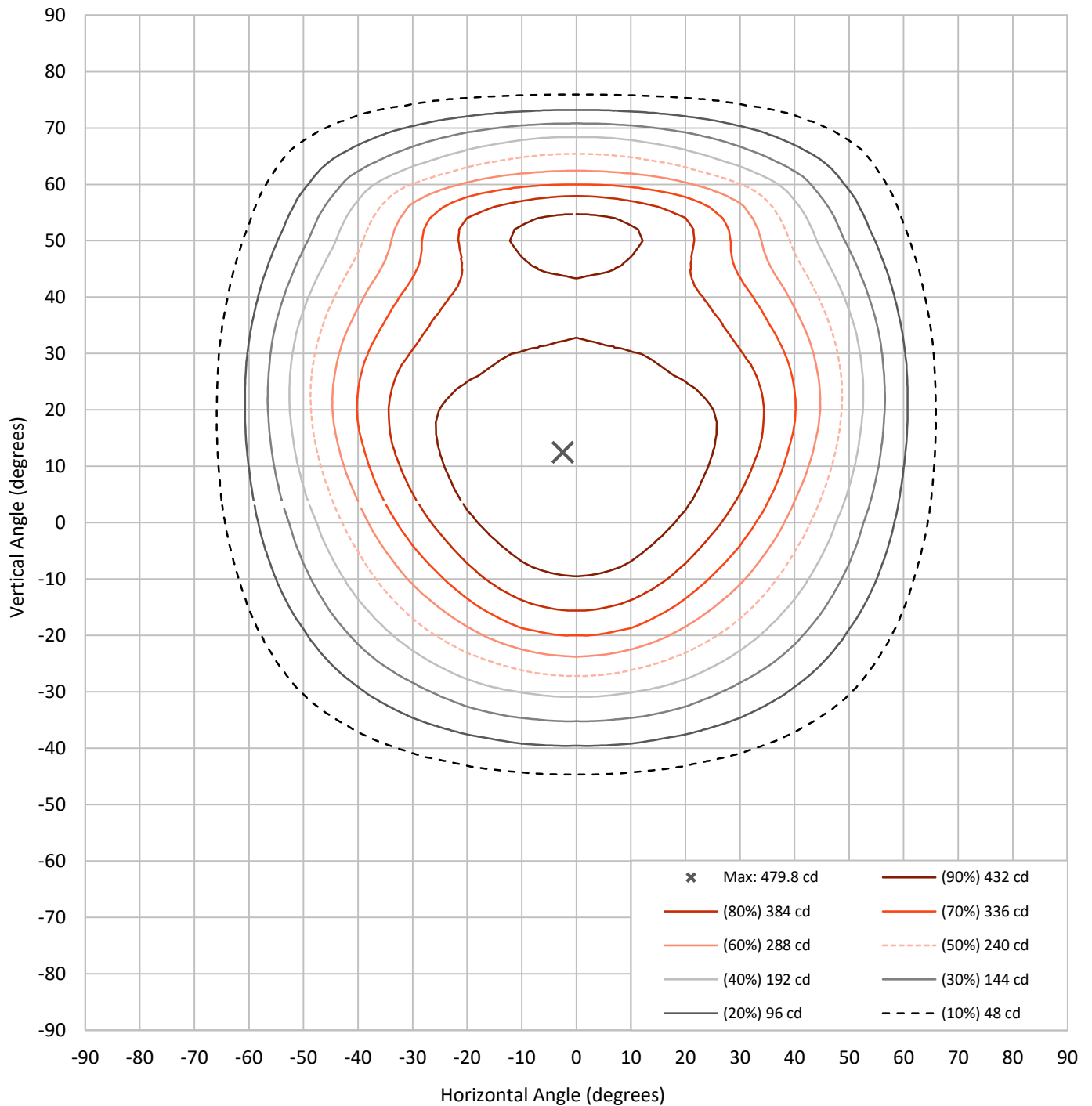
Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	977.7 lumens	Max Intensity:	479.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 12.5°V
Efficacy:	54.3 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.46' x L: 0.12' x H: 0.1')		
Beam Angle (50%):	95°H x 92.5°V	Field Angle (10%):	131.4°H x 120.5°V
Beam Lumens:	757.3 lumens	Field Lumens:	958.1 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		



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Iso-Candela Plot

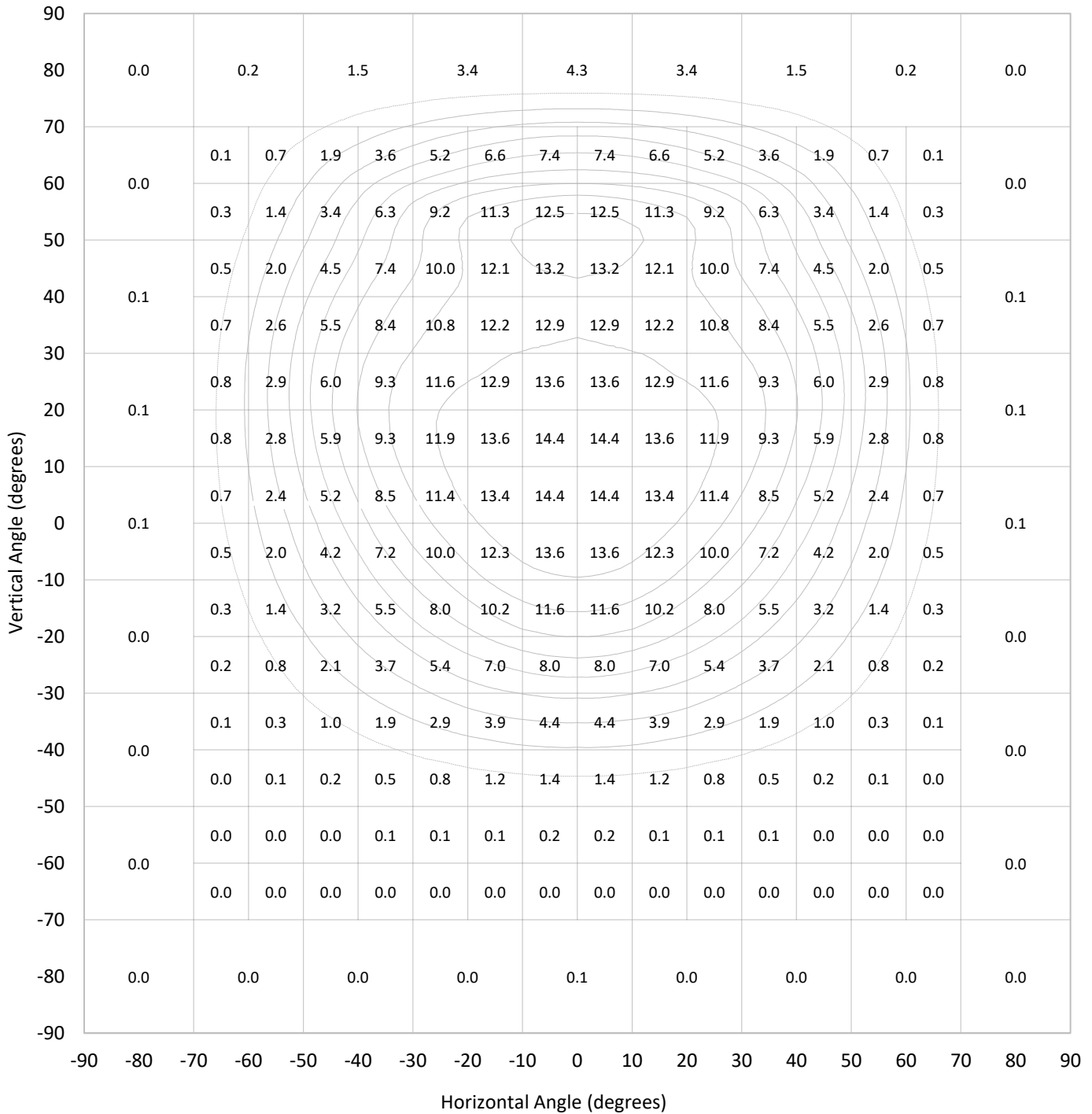




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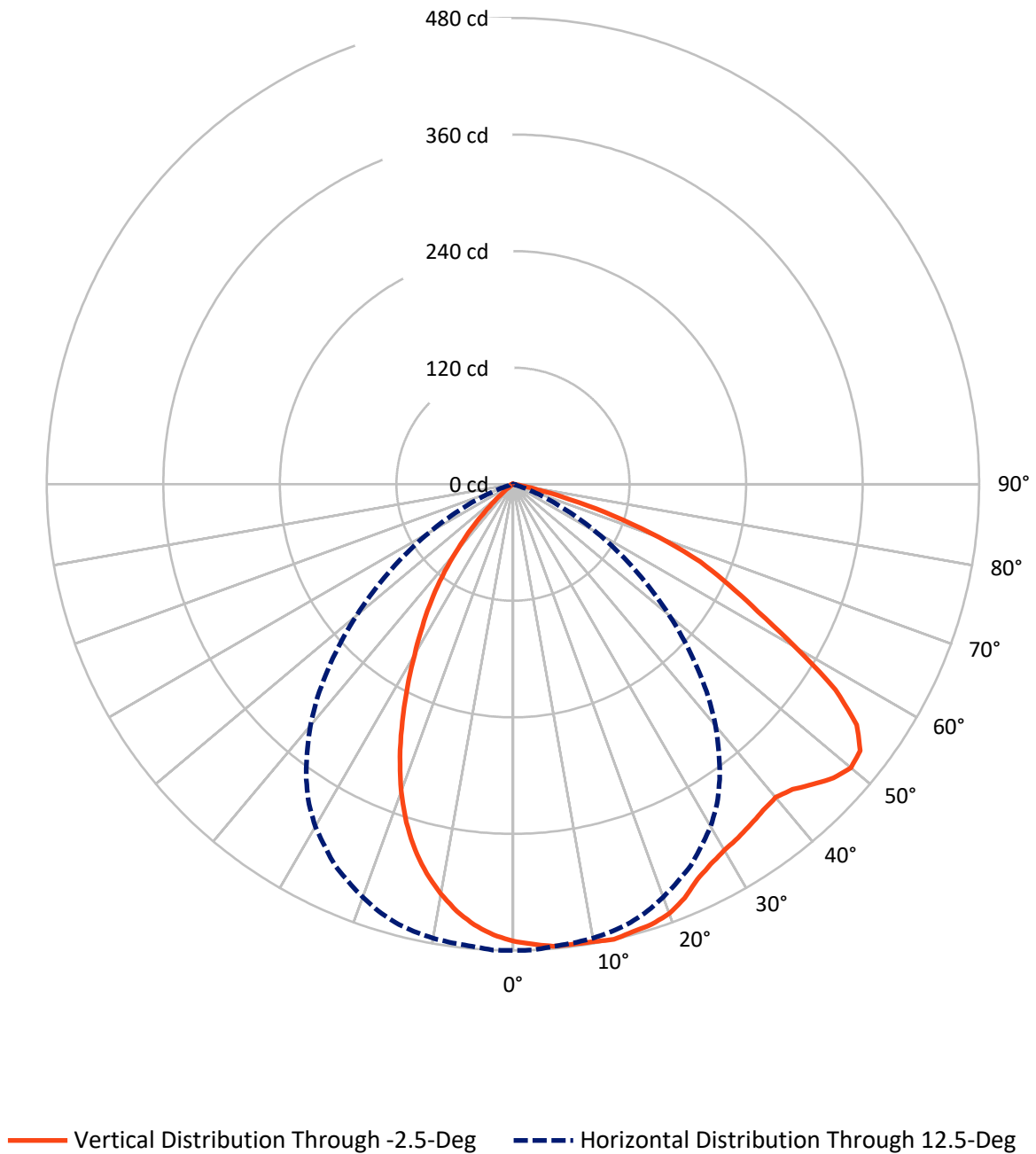
Lumen Table



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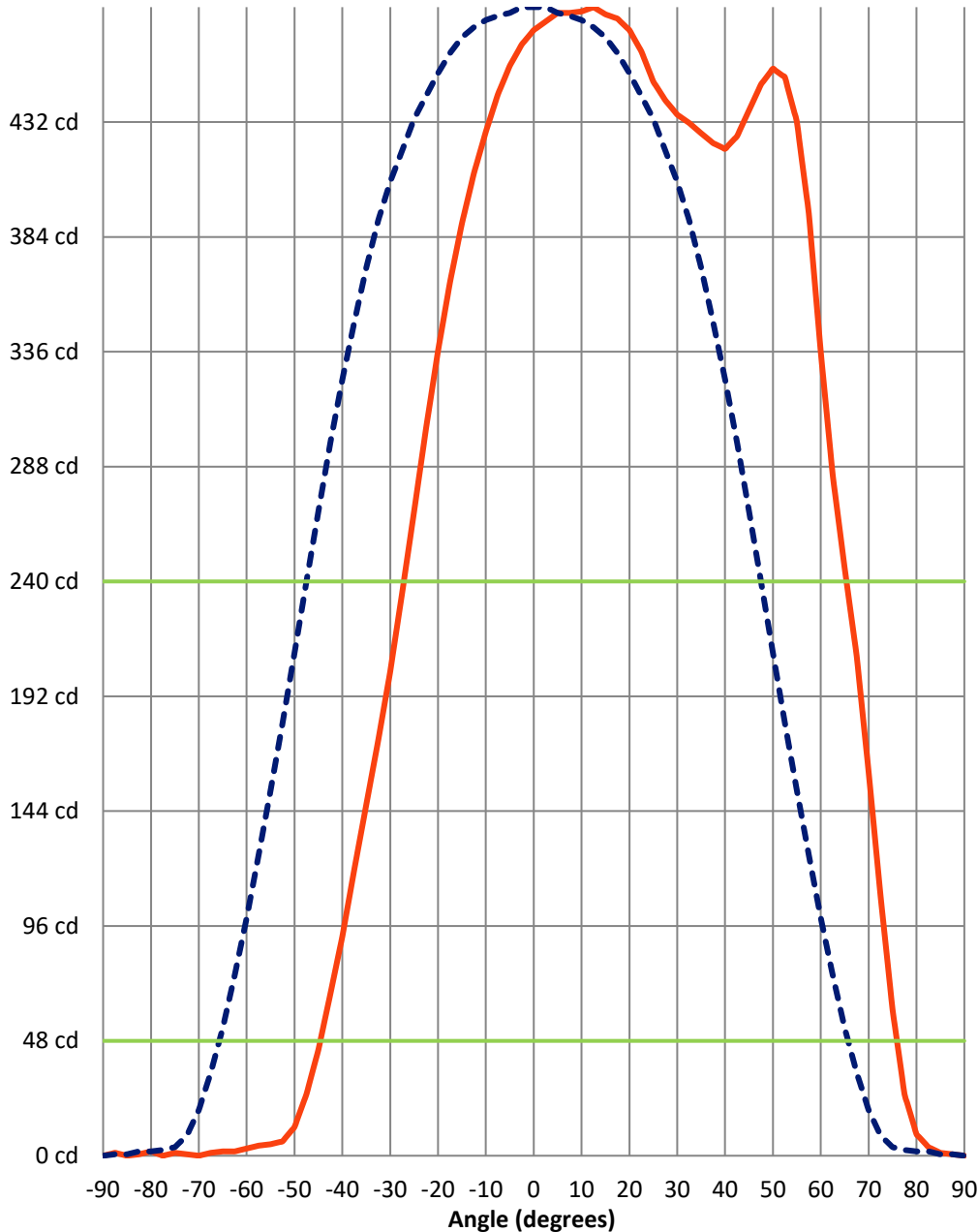
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 95°
 V Angle: 92.5°
 Lumens: 757.3
 Efficiency: 77.5%

Field:
 H Angle: 131.4°
 V Angle: 120.5°
 Lumens: 958.1
 Efficiency: 98.0%

Spill:
 Lumens: 19.6
 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	2
70°	0	0	1	1	1	1	1	1	1	2	4
67.5°	0	0	1	1	1	1	1	1	2	3	5
65°	0	0	1	1	1	1	1	2	2	4	7
62.5°	0	0	1	1	1	1	2	2	3	5	10
60°	0	0	1	1	1	1	2	2	3	7	13
57.5°	0	1	1	1	1	2	2	2	4	8	16
55°	0	1	1	1	1	2	2	2	5	10	19
52.5°	0	1	1	1	2	2	2	3	6	13	23
50°	0	1	1	1	2	2	2	4	7	16	26
47.5°	0	1	1	1	2	2	2	4	10	18	30
45°	0	1	1	1	2	2	2	5	11	21	33
42.5°	0	1	1	1	2	2	3	6	13	23	37
40°	0	1	1	2	2	2	3	7	14	25	40
37.5°	0	1	1	2	2	2	4	8	16	27	43
35°	0	1	1	2	2	2	4	8	17	29	46
32.5°	0	1	1	2	2	2	4	9	18	31	49
30°	0	1	1	2	2	2	4	9	19	32	51
27.5°	0	1	1	2	2	2	4	10	19	34	53
25°	0	1	1	2	2	2	4	10	20	35	54
22.5°	0	1	1	2	2	2	4	10	20	35	55
20°	0	1	1	2	2	2	4	10	20	36	55
17.5°	0	1	1	2	2	2	3	9	20	36	55
15°	0	1	1	2	2	2	4	9	20	35	55
12.5°	0	1	1	2	2	2	4	8	19	35	53
10°	0	1	1	2	2	2	4	8	19	34	52
7.5°	0	1	1	2	2	2	4	8	17	32	50
5°	0	1	1	2	2	2	4	7	16	31	49
2.5°	0	1	1	2	2	2	4	6	15	29	47
0°	0	1	1	2	2	2	4	5	13	27	44
-2.5°	0	1	1	2	2	2	4	5	12	25	41
-5°	0	1	1	2	2	2	3	5	11	23	37
-7.5°	0	1	1	2	2	2	3	4	9	20	33
-10°	0	1	1	2	2	2	3	4	7	17	29
-12.5°	0	1	1	2	2	2	2	4	6	14	26
-15°	0	1	1	1	2	2	2	4	5	12	22
-17.5°	0	1	1	1	2	2	2	3	5	10	19
-20°	0	1	1	1	2	2	2	3	4	8	15



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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	2	4	7	11
-25°	0	1	1	1	2	2	2	2	3	5	9
-27.5°	0	1	1	1	2	2	2	2	2	4	7
-30°	0	1	1	1	1	2	2	2	2	3	5
-32.5°	0	1	1	1	1	2	1	2	2	2	4
-35°	0	1	1	1	1	2	1	2	2	2	2
-37.5°	0	1	1	1	1	1	1	2	2	2	2
-40°	0	1	1	1	1	1	1	2	2	2	2
-42.5°	0	1	1	0	1	1	1	2	2	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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CATALOG NUMBER: XTOR2A-N-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	2	2	3	3	4	5
77.5°	1	2	2	3	4	6	7	9	10	11	12
75°	2	3	5	7	10	13	15	19	23	26	29
72.5°	4	6	9	13	17	23	28	34	39	46	51
70°	6	10	14	21	28	35	43	51	59	68	76
67.5°	9	14	21	29	40	50	59	69	80	90	102
65°	13	19	28	40	53	63	78	90	102	116	128
62.5°	16	25	36	49	62	76	93	108	127	142	157
60°	21	31	44	59	72	90	108	126	148	170	188
57.5°	26	37	53	68	84	105	124	144	168	190	214
55°	30	43	59	75	95	118	138	161	185	208	233
52.5°	35	49	66	83	105	128	149	174	197	222	246
50°	40	55	73	93	116	137	158	184	206	232	256
47.5°	44	61	81	103	126	148	171	196	217	242	264
45°	49	68	89	112	136	160	184	208	232	254	275
42.5°	54	74	97	120	146	171	197	221	245	267	288
40°	58	80	104	129	156	183	208	234	257	279	300
37.5°	63	86	111	138	166	193	220	245	269	291	311
35°	67	91	117	145	175	202	229	256	279	302	323
32.5°	71	96	123	152	181	210	238	264	290	313	332
30°	74	99	126	157	186	216	245	272	299	321	342
27.5°	76	102	129	160	190	221	250	278	305	329	351
25°	77	103	132	162	193	224	254	283	309	334	356
22.5°	78	104	132	163	193	224	256	285	312	337	360
20°	78	104	132	162	192	223	254	285	314	338	360
17.5°	78	103	130	160	189	220	251	282	311	336	358
15°	77	102	129	157	185	215	247	276	305	331	354
12.5°	75	99	126	153	181	210	240	269	298	324	348
10°	73	96	122	148	175	203	232	261	289	315	340
7.5°	71	93	117	142	168	196	223	252	279	305	331
5°	68	90	113	137	160	187	213	241	268	293	320
2.5°	65	86	109	131	153	180	203	231	257	282	308
0°	61	81	103	123	145	169	192	218	244	269	294
-2.5°	57	77	98	118	138	162	183	208	232	256	281
-5°	53	72	92	111	130	152	173	196	218	241	265
-7.5°	49	66	85	104	122	143	163	184	205	226	250
-10°	44	60	78	96	114	133	153	172	193	212	233
-12.5°	39	55	71	89	105	123	142	160	180	198	217
-15°	35	49	64	80	96	113	131	148	166	184	200
-17.5°	30	43	57	72	87	102	120	136	152	169	184
-20°	25	37	49	63	78	91	107	123	138	154	168



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CATALOG NUMBER: XTOR2A-N-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°	20	31	42	55	68	81	95	110	123	138	152
-25°	16	25	35	46	59	71	82	96	109	123	136
-27.5°	13	20	28	38	49	60	71	83	95	106	119
-30°	10	15	22	30	40	50	60	69	80	90	102
-32.5°	7	11	16	23	31	40	49	56	65	75	84
-35°	5	8	11	16	23	30	38	44	51	60	68
-37.5°	4	5	7	11	16	21	28	34	39	46	53
-40°	2	4	5	7	10	14	19	24	28	33	38
-42.5°	2	3	4	4	7	8	11	15	19	22	25
-45°	2	3	3	3	4	5	7	8	11	13	16
-47.5°	2	2	3	3	3	4	4	5	5	7	8
-50°	2	2	2	2	2	3	2	2	3	4	4
-52.5°	2	2	2	2	2	3	2	2	2	3	3
-55°	2	2	2	1	1	2	2	2	2	2	2
-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



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CATALOG NUMBER: XTOR2A-N-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°	2	2	2	2	3	3	3	3	4	4	4
80°	6	6	7	7	7	7	7	8	9	9	8
77.5°	14	16	17	19	20	22	22	23	23	25	25
75°	32	35	38	42	46	48	50	53	55	57	58
72.5°	57	62	68	74	79	84	89	93	97	101	103
70°	84	93	101	108	116	124	131	137	143	148	153
67.5°	113	123	133	144	154	163	172	180	187	193	199
65°	141	154	166	176	187	198	208	217	224	230	236
62.5°	173	187	201	214	226	236	248	257	265	271	276
60°	208	226	241	256	270	282	294	305	314	320	326
57.5°	237	258	280	296	313	329	342	352	362	371	379
55°	257	281	306	325	344	361	378	388	399	409	417
52.5°	272	294	317	339	359	376	394	406	418	427	436
50°	278	300	322	342	361	378	394	408	420	431	439
47.5°	285	305	324	342	360	376	391	404	415	425	433
45°	294	313	330	346	361	376	388	398	408	418	425
42.5°	305	324	340	354	367	379	390	398	407	413	419
40°	318	336	351	364	376	387	396	402	408	413	417
37.5°	330	346	361	373	385	394	401	407	411	416	419
35°	340	355	370	382	392	399	406	412	418	421	424
32.5°	350	364	378	389	397	406	413	418	423	426	428
30°	361	375	386	397	405	412	420	424	428	431	433
27.5°	369	384	395	405	413	420	425	429	433	436	438
25°	375	390	403	413	421	428	432	435	439	443	446
22.5°	378	395	409	419	427	434	438	443	448	451	455
20°	379	398	413	424	433	440	446	451	455	461	465
17.5°	379	397	413	426	435	444	451	457	463	467	471
15°	378	395	411	424	435	445	452	460	466	470	474
12.5°	371	391	407	420	433	443	452	461	467	471	474
10°	363	383	400	415	428	440	451	459	466	470	473
7.5°	355	375	392	409	422	435	446	455	463	467	473
5°	344	366	384	401	415	429	441	451	458	465	470
2.5°	332	354	373	390	407	421	433	443	453	460	466
0°	317	340	358	378	394	410	423	434	445	453	460
-2.5°	304	325	345	364	381	397	412	424	434	445	452
-5°	288	309	330	348	366	382	398	411	422	433	441
-7.5°	272	293	314	331	349	366	382	396	408	419	430
-10°	255	276	295	314	331	348	364	381	392	403	412
-12.5°	238	257	276	294	311	328	345	360	374	385	394
-15°	219	238	256	273	289	306	322	338	351	364	373
-17.5°	201	219	236	252	267	282	297	312	326	339	350
-20°	183	199	215	230	245	257	272	285	299	310	320



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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°	165	178	193	208	221	234	246	257	268	278	288
-25°	148	159	172	185	197	209	220	229	238	247	255
-27.5°	130	141	151	162	174	184	195	203	209	215	223
-30°	113	122	132	140	151	160	169	178	184	189	193
-32.5°	94	104	113	120	128	136	145	152	159	163	166
-35°	75	84	93	100	107	113	119	126	132	137	140
-37.5°	59	65	72	80	86	91	96	101	105	110	113
-40°	43	49	54	59	65	69	74	78	81	84	87
-42.5°	28	33	37	41	44	48	53	57	59	61	63
-45°	18	20	22	25	28	30	33	35	38	40	41
-47.5°	10	10	12	13	14	16	18	19	21	22	23
-50°	5	5	6	7	8	7	7	8	10	10	11
-52.5°	3	3	4	4	5	4	4	5	5	5	6
-55°	2	2	2	2	3	2	2	3	4	4	4
-57.5°	2	2	2	2	2	2	2	2	2	2	3
-60°	2	2	2	2	2	1	2	2	2	2	2
-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: P132878

CATALOG NUMBER: XTOR2A-N-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°	9	9	9	10	9	9	9	8	9	9	8
77.5°	25	26	26	25	26	26	25	25	25	23	23
75°	59	61	61	61	61	61	59	58	57	55	53
72.5°	105	108	108	108	108	108	105	103	101	97	93
70°	156	160	160	161	160	160	156	153	148	143	137
67.5°	203	208	209	209	209	208	203	199	193	187	180
65°	241	244	245	246	245	244	241	236	230	224	217
62.5°	280	282	284	285	284	282	280	276	271	265	257
60°	330	334	336	335	336	334	330	326	320	314	305
57.5°	385	390	394	395	394	390	385	379	371	362	352
55°	424	428	432	433	432	428	424	417	409	399	388
52.5°	443	448	451	451	451	448	443	436	427	418	406
50°	446	451	454	456	454	451	446	439	431	420	408
47.5°	440	445	448	449	448	445	440	433	425	415	404
45°	431	435	437	439	437	435	431	425	418	408	398
42.5°	423	425	426	428	426	425	423	419	413	407	398
40°	419	420	421	421	421	420	419	417	413	408	402
37.5°	422	422	423	424	423	422	422	419	416	411	407
35°	426	427	427	428	427	427	426	424	421	418	412
32.5°	430	431	431	433	431	431	430	428	426	423	418
30°	434	434	435	436	435	434	434	433	431	428	424
27.5°	439	440	441	442	441	440	439	438	436	433	429
25°	447	449	449	450	449	449	447	446	443	439	435
22.5°	457	459	461	463	461	459	457	455	451	448	443
20°	467	469	470	472	470	469	467	465	461	455	451
17.5°	473	474	475	476	475	474	473	471	467	463	457
15°	476	476	477	477	477	476	476	474	470	466	460
12.5°	476	477	480	480	480	477	476	474	471	467	461
10°	476	477	478	479	478	477	476	473	470	466	459
7.5°	476	477	477	478	477	477	476	473	467	463	455
5°	474	476	477	478	477	476	474	470	465	458	451
2.5°	470	473	474	475	474	473	470	466	460	453	443
0°	465	468	470	470	470	468	465	460	453	445	434
-2.5°	458	463	464	465	464	463	458	452	445	434	424
-5°	448	452	455	457	455	452	448	441	433	422	411
-7.5°	436	440	443	443	443	440	436	430	419	408	396
-10°	421	425	428	429	428	425	421	412	403	392	381
-12.5°	402	407	410	412	410	407	402	394	385	374	360
-15°	381	386	390	390	390	386	381	373	364	351	338
-17.5°	356	361	365	365	365	361	356	350	339	326	312
-20°	327	333	336	336	336	333	327	320	310	299	285



REPORT NUMBER: P132878

CATALOG NUMBER: XTOR2A-N-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°	295	301	304	306	304	301	295	288	278	268	257
-25°	262	266	269	270	269	266	262	255	247	238	229
-27.5°	229	233	235	235	235	233	229	223	215	209	203
-30°	197	200	202	202	202	200	197	193	189	184	178
-32.5°	169	172	174	173	174	172	169	166	163	159	152
-35°	142	145	147	146	147	145	142	140	137	132	126
-37.5°	116	118	120	119	120	118	116	113	110	105	101
-40°	89	90	92	91	92	90	89	87	84	81	78
-42.5°	66	66	68	68	68	66	66	63	61	59	57
-45°	43	44	44	44	44	44	43	41	40	38	35
-47.5°	23	25	26	26	26	25	23	23	22	21	19
-50°	12	12	12	11	12	12	12	11	10	10	8
-52.5°	7	7	6	6	6	7	7	6	5	5	5
-55°	5	5	5	5	5	5	5	4	4	4	3
-57.5°	3	4	4	4	4	4	3	3	2	2	2
-60°	2	3	3	3	3	3	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	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: P132878

CATALOG NUMBER: XTOR2A-N-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	2	2	2	2	2	2	1	1
80°	7	7	7	7	7	6	6	5	4	3	3
77.5°	22	22	20	19	17	16	14	12	11	10	9
75°	50	48	46	42	38	35	32	29	26	23	19
72.5°	89	84	79	74	68	62	57	51	46	39	34
70°	131	124	116	108	101	93	84	76	68	59	51
67.5°	172	163	154	144	133	123	113	102	90	80	69
65°	208	198	187	176	166	154	141	128	116	102	90
62.5°	248	236	226	214	201	187	173	157	142	127	108
60°	294	282	270	256	241	226	208	188	170	148	126
57.5°	342	329	313	296	280	258	237	214	190	168	144
55°	378	361	344	325	306	281	257	233	208	185	161
52.5°	394	376	359	339	317	294	272	246	222	197	174
50°	394	378	361	342	322	300	278	256	232	206	184
47.5°	391	376	360	342	324	305	285	264	242	217	196
45°	388	376	361	346	330	313	294	275	254	232	208
42.5°	390	379	367	354	340	324	305	288	267	245	221
40°	396	387	376	364	351	336	318	300	279	257	234
37.5°	401	394	385	373	361	346	330	311	291	269	245
35°	406	399	392	382	370	355	340	323	302	279	256
32.5°	413	406	397	389	378	364	350	332	313	290	264
30°	420	412	405	397	386	375	361	342	321	299	272
27.5°	425	420	413	405	395	384	369	351	329	305	278
25°	432	428	421	413	403	390	375	356	334	309	283
22.5°	438	434	427	419	409	395	378	360	337	312	285
20°	446	440	433	424	413	398	379	360	338	314	285
17.5°	451	444	435	426	413	397	379	358	336	311	282
15°	452	445	435	424	411	395	378	354	331	305	276
12.5°	452	443	433	420	407	391	371	348	324	298	269
10°	451	440	428	415	400	383	363	340	315	289	261
7.5°	446	435	422	409	392	375	355	331	305	279	252
5°	441	429	415	401	384	366	344	320	293	268	241
2.5°	433	421	407	390	373	354	332	308	282	257	231
0°	423	410	394	378	358	340	317	294	269	244	218
-2.5°	412	397	381	364	345	325	304	281	256	232	208
-5°	398	382	366	348	330	309	288	265	241	218	196
-7.5°	382	366	349	331	314	293	272	250	226	205	184
-10°	364	348	331	314	295	276	255	233	212	193	172
-12.5°	345	328	311	294	276	257	238	217	198	180	160
-15°	322	306	289	273	256	238	219	200	184	166	148
-17.5°	297	282	267	252	236	219	201	184	169	152	136
-20°	272	257	245	230	215	199	183	168	154	138	123



REPORT NUMBER: P132878

CATALOG NUMBER: XTOR2A-N-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°	246	234	221	208	193	178	165	152	138	123	110
-25°	220	209	197	185	172	159	148	136	123	109	96
-27.5°	195	184	174	162	151	141	130	119	106	95	83
-30°	169	160	151	140	132	122	113	102	90	80	69
-32.5°	145	136	128	120	113	104	94	84	75	65	56
-35°	119	113	107	100	93	84	75	68	60	51	44
-37.5°	96	91	86	80	72	65	59	53	46	39	34
-40°	74	69	65	59	54	49	43	38	33	28	24
-42.5°	53	48	44	41	37	33	28	25	22	19	15
-45°	33	30	28	25	22	20	18	16	13	11	8
-47.5°	18	16	14	13	12	10	10	8	7	5	5
-50°	7	7	8	7	6	5	5	4	4	3	2
-52.5°	4	4	5	4	4	3	3	3	3	2	2
-55°	2	2	3	2	2	2	2	2	2	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: P132878

CATALOG NUMBER: XTOR2A-N-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°	2	2	2	2	1	1	1	1	1	1	1
77.5°	7	6	4	3	2	2	1	1	1	1	1
75°	15	13	10	7	5	3	2	2	1	1	1
72.5°	28	23	17	13	9	6	4	2	2	1	1
70°	43	35	28	21	14	10	6	4	2	1	1
67.5°	59	50	40	29	21	14	9	5	3	2	1
65°	78	63	53	40	28	19	13	7	4	2	2
62.5°	93	76	62	49	36	25	16	10	5	3	2
60°	108	90	72	59	44	31	21	13	7	3	2
57.5°	124	105	84	68	53	37	26	16	8	4	2
55°	138	118	95	75	59	43	30	19	10	5	2
52.5°	149	128	105	83	66	49	35	23	13	6	3
50°	158	137	116	93	73	55	40	26	16	7	4
47.5°	171	148	126	103	81	61	44	30	18	10	4
45°	184	160	136	112	89	68	49	33	21	11	5
42.5°	197	171	146	120	97	74	54	37	23	13	6
40°	208	183	156	129	104	80	58	40	25	14	7
37.5°	220	193	166	138	111	86	63	43	27	16	8
35°	229	202	175	145	117	91	67	46	29	17	8
32.5°	238	210	181	152	123	96	71	49	31	18	9
30°	245	216	186	157	126	99	74	51	32	19	9
27.5°	250	221	190	160	129	102	76	53	34	19	10
25°	254	224	193	162	132	103	77	54	35	20	10
22.5°	256	224	193	163	132	104	78	55	35	20	10
20°	254	223	192	162	132	104	78	55	36	20	10
17.5°	251	220	189	160	130	103	78	55	36	20	9
15°	247	215	185	157	129	102	77	55	35	20	9
12.5°	240	210	181	153	126	99	75	53	35	19	8
10°	232	203	175	148	122	96	73	52	34	19	8
7.5°	223	196	168	142	117	93	71	50	32	17	8
5°	213	187	160	137	113	90	68	49	31	16	7
2.5°	203	180	153	131	109	86	65	47	29	15	6
0°	192	169	145	123	103	81	61	44	27	13	5
-2.5°	183	162	138	118	98	77	57	41	25	12	5
-5°	173	152	130	111	92	72	53	37	23	11	5
-7.5°	163	143	122	104	85	66	49	33	20	9	4
-10°	153	133	114	96	78	60	44	29	17	7	4
-12.5°	142	123	105	89	71	55	39	26	14	6	4
-15°	131	113	96	80	64	49	35	22	12	5	4
-17.5°	120	102	87	72	57	43	30	19	10	5	3
-20°	107	91	78	63	49	37	25	15	8	4	3



REPORT NUMBER: P132878

CATALOG NUMBER: XTOR2A-N-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°	95	81	68	55	42	31	20	11	7	4	2
-25°	82	71	59	46	35	25	16	9	5	3	2
-27.5°	71	60	49	38	28	20	13	7	4	2	2
-30°	60	50	40	30	22	15	10	5	3	2	2
-32.5°	49	40	31	23	16	11	7	4	2	2	2
-35°	38	30	23	16	11	8	5	2	2	2	2
-37.5°	28	21	16	11	7	5	4	2	2	2	2
-40°	19	14	10	7	5	4	2	2	2	2	2
-42.5°	11	8	7	4	4	3	2	2	2	2	2
-45°	7	5	4	3	3	3	2	2	2	2	1
-47.5°	4	4	3	3	3	2	2	2	2	2	1
-50°	2	3	2	2	2	2	2	1	2	2	1
-52.5°	2	3	2	2	2	2	2	1	2	1	1
-55°	2	2	1	1	2	2	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: P132878

CATALOG NUMBER: XTOR2A-N-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°	2	2	2	1	1	1	0
42.5°	3	2	2	1	1	1	0
40°	3	2	2	2	1	1	0
37.5°	4	2	2	2	1	1	0
35°	4	2	2	2	1	1	0
32.5°	4	2	2	2	1	1	0
30°	4	2	2	2	1	1	0
27.5°	4	2	2	2	1	1	0
25°	4	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	2	2	2	1	1	0
15°	4	2	2	2	1	1	0
12.5°	4	2	2	2	1	1	0
10°	4	2	2	2	1	1	0
7.5°	4	2	2	2	1	1	0
5°	4	2	2	2	1	1	0
2.5°	4	2	2	2	1	1	0
0°	4	2	2	2	1	1	0
-2.5°	4	2	2	2	1	1	0
-5°	3	2	2	2	1	1	0
-7.5°	3	2	2	2	1	1	0
-10°	3	2	2	2	1	1	0
-12.5°	2	2	2	2	1	1	0
-15°	2	2	2	1	1	1	0
-17.5°	2	2	2	1	1	1	0
-20°	2	2	2	1	1	1	0



REPORT NUMBER: P132878

CATALOG NUMBER: XTOR2A-N-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)