

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: P14681-R2

Luminaire Tested: **XTOR2A-N-XTORFLD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14681-R2
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR2A-N-XTORFLD
Description: ***THIS A REVISION OF P14681 TO UPDATE THE REPORT***
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1509.5 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.46' x L: 0.12' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G0

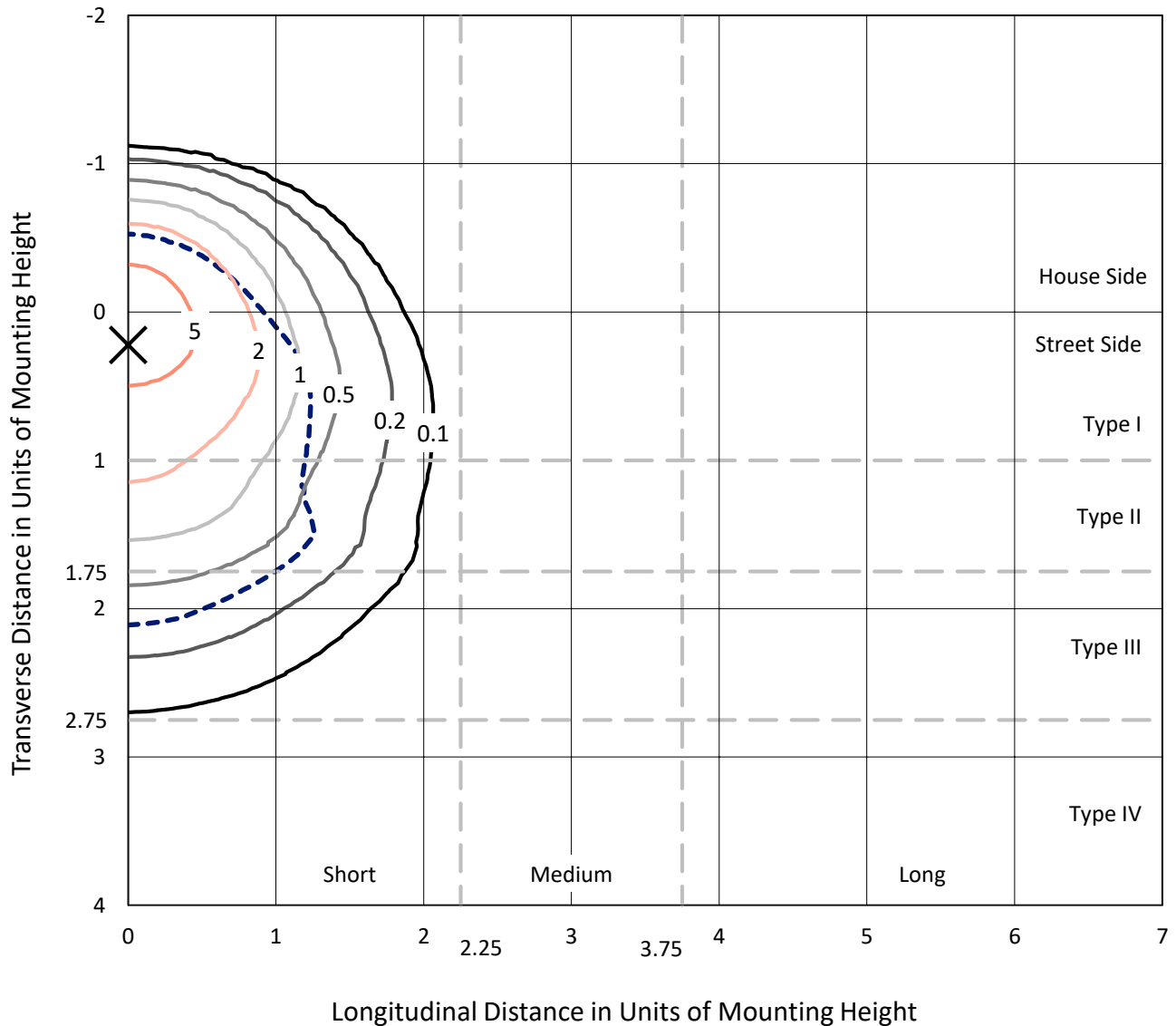
Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P14681-R2
 CATALOG NUMBER: XTOR2A-N-XTORFLD

Iso-Footcandle Lines of Horizontal Illumination

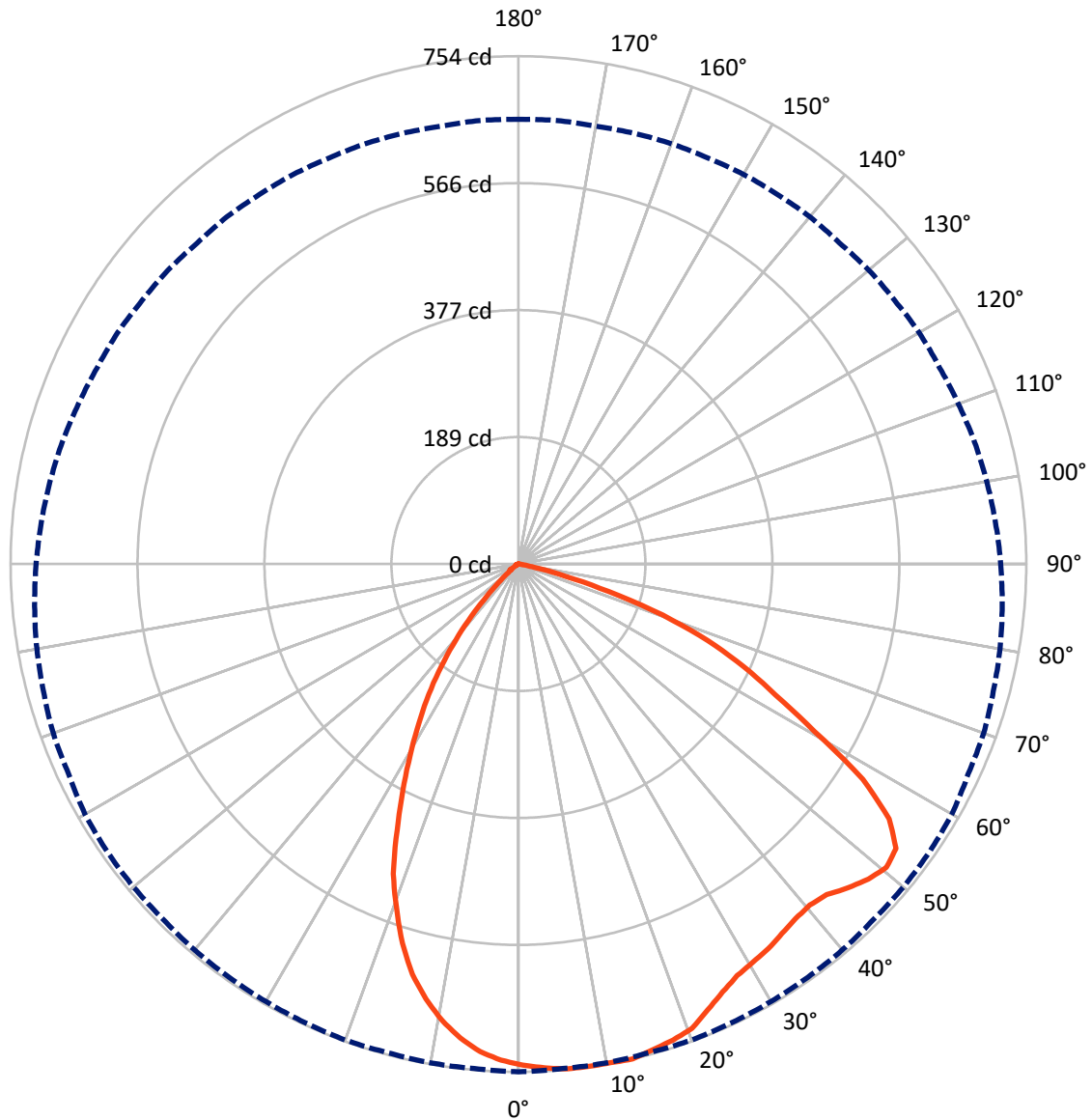
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P14681-R2
CATALOG NUMBER: XTOR2A-N-XTORFLD

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 12.5-Deg Vertical

REPORT NUMBER: P14681-R2

CATALOG NUMBER: XTOR2A-N-XTORFLD

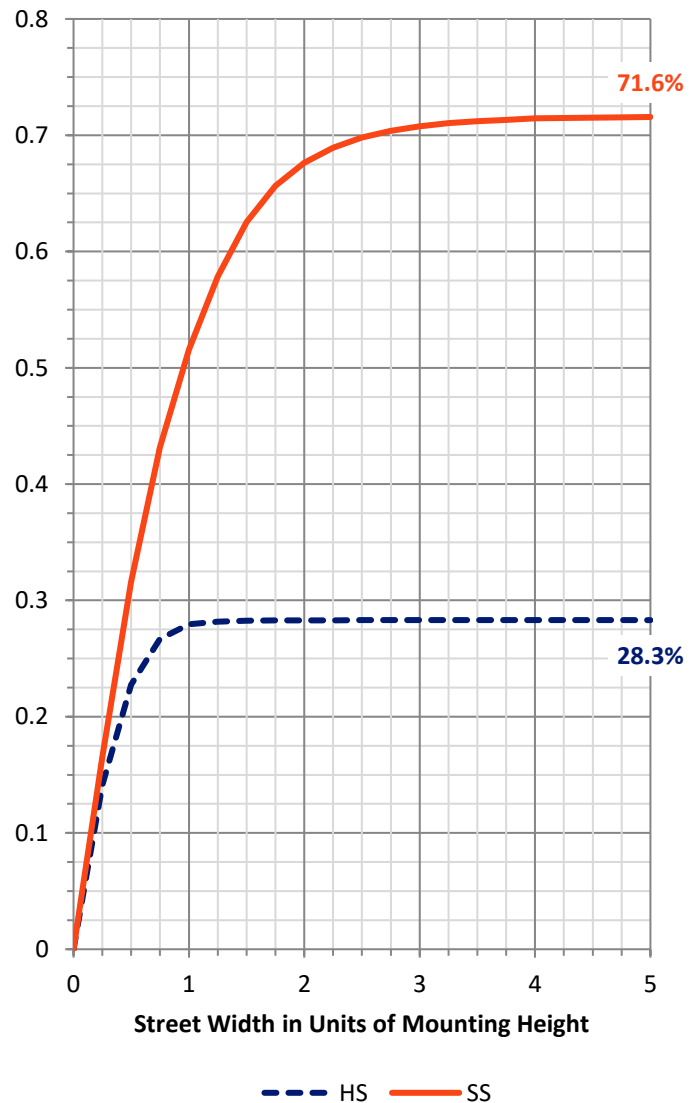
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	431.1	0.0	431.1
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	1078.4	0.0	1078.4
	% Fixture	71.4	0.0	71.4
Total	Lumens	1509.5	0.0	1509.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	4.6
10°-20°	195.7	13.0
20°-30°	275.1	18.2
30°-40°	299.0	19.8
40°-50°	277.3	18.4
50°-60°	226.2	15.0
60°-70°	129.9	8.6
70°-80°	35.1	2.3
80°-90°	1.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1509.5	100.0
0°-180°	1509.5	100.0



REPORT NUMBER: P14681-R2

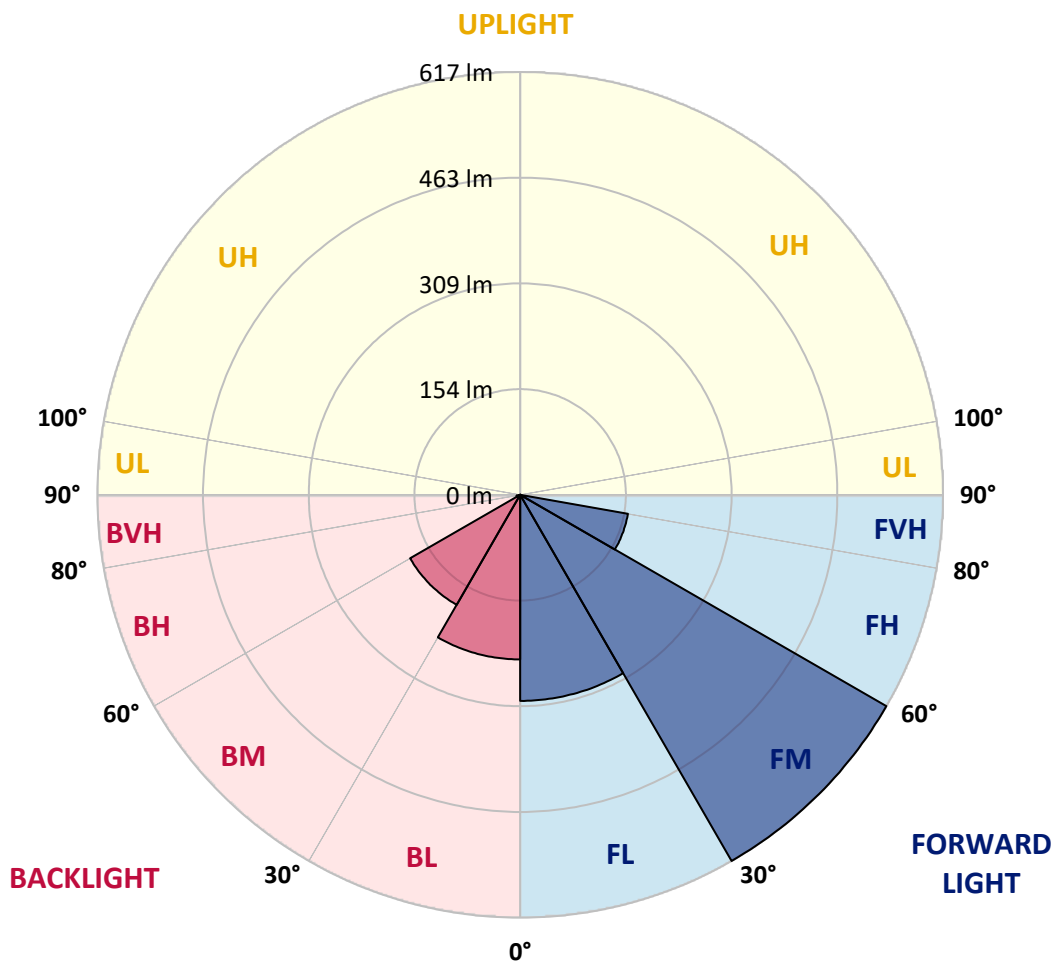
CATALOG NUMBER: XTOR2A-N-XTORFLD

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.7	19.9			
FM	(30°-60°)	617.1	40.9			
FH	(60°-80°)	159.7	10.6			G0/660
FVH	(80°-90°)	0.9	0.1			G0/10
BL	(0°-30°)	240.2	15.9	B1/500		
BM	(30°-60°)	185.5	12.3	B0/220		
BH	(60°-80°)	5.4	0.4	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type III Short





REPORT NUMBER: P14681-R2

CATALOG NUMBER: XTOR2A-N-XTORFLD

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	744	744	744	744	744	744	744	744	744	744	744
2.5°	749	748	749	748	749	750	750	749	748	748	749
5°	753	753	752	753	752	752	754	752	751	750	750
7.5°	753	752	751	751	752	752	752	752	751	751	751
10°	753	751	752	752	751	750	751	750	751	750	748
12.5°	754	752	752	751	752	751	750	749	748	746	746
15°	748	749	749	747	748	748	749	748	746	745	743
17.5°	743	743	743	744	744	744	745	744	744	742	739
20°	736	736	736	734	733	734	735	736	735	734	732
22.5°	719	720	721	723	724	723	725	725	728	730	726
25°	704	703	702	703	705	707	708	707	711	714	715
27.5°	692	693	693	692	693	693	696	696	699	700	703
30°	686	686	686	685	685	684	686	686	685	687	692
32.5°	681	681	682	680	680	678	677	674	673	673	675
35°	674	674	674	671	670	667	663	659	657	658	656
37.5°	668	667	667	666	663	658	654	648	642	637	634
40°	666	663	662	659	653	647	642	634	628	618	611
42.5°	671	669	664	655	644	634	627	618	608	596	586
45°	686	683	672	657	639	621	607	595	583	572	557
47.5°	699	696	686	665	642	613	590	572	560	543	527
50°	708	703	693	674	647	612	577	549	529	511	495
52.5°	702	699	692	675	650	613	569	527	498	476	458
55°	668	664	660	650	634	609	567	511	465	438	417
57.5°	603	600	599	595	587	574	549	504	439	400	375
60°	505	503	504	505	505	500	494	472	421	356	326
62.5°	428	426	423	422	415	415	413	406	390	333	281
65°	368	366	363	352	344	335	328	326	322	305	243
67.5°	303	302	299	292	286	274	260	253	244	246	221
70°	227	224	222	219	217	211	205	196	184	178	173
72.5°	140	139	141	142	142	142	141	139	133	126	117
75°	72	73	74	75	79	81	83	84	85	83	79
77.5°	24	25	26	26	28	30	34	37	40	43	42
80°	8	8	8	9	7	7	8	8	12	13	16
82.5°	3	2	4	3	4	2	4	3	2	3	3
85°	0	0	1	0	0	0	0	0	0	1	1
87.5°	0	1	0	2	0	1	0	0	0	1	0
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P14681-R2
 CATALOG NUMBER: XTOR2A-N-XTORFLD

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	744	744	744	744	744	744	744	744	744	744	744
2.5°	747	747	747	746	746	745	745	744	744	744	742
5°	748	747	747	746	745	744	744	741	741	739	738
7.5°	749	746	744	743	741	738	740	735	732	730	727
10°	746	745	742	740	737	734	731	727	724	719	717
12.5°	745	743	737	735	730	726	721	716	711	706	701
15°	740	737	733	728	724	717	711	704	698	690	684
17.5°	736	732	726	720	714	706	699	689	681	671	662
20°	729	724	717	712	704	694	684	671	659	646	634
22.5°	722	717	710	701	694	679	666	653	634	620	605
25°	712	705	696	686	673	657	641	623	605	587	570
27.5°	703	697	685	672	656	638	618	597	575	554	535
30°	690	684	672	656	637	620	594	569	541	519	495
32.5°	674	669	654	636	616	592	564	535	505	479	455
35°	653	648	634	611	589	559	528	494	464	436	412
37.5°	632	628	613	587	562	529	491	455	424	397	371
40°	607	603	588	561	531	497	453	415	384	355	328
42.5°	579	572	559	529	496	457	412	375	343	316	291
45°	545	536	525	495	461	416	370	333	303	278	253
47.5°	513	500	487	459	423	376	331	295	267	241	217
50°	478	460	446	419	383	337	291	259	231	206	183
52.5°	440	419	400	376	339	296	254	221	196	173	151
55°	397	374	353	331	298	255	215	186	163	138	117
57.5°	351	329	308	285	256	214	178	152	131	108	88
60°	303	279	257	236	209	173	142	116	95	76	57
62.5°	258	235	212	192	167	138	110	87	67	49	34
65°	213	192	169	149	126	102	80	59	42	26	15
67.5°	169	149	129	109	89	68	50	34	20	9	3
70°	141	115	95	76	59	44	30	16	6	2	4
72.5°	110	81	63	49	35	23	12	5	2	1	2
75°	69	56	42	29	18	10	6	4	3	2	2
77.5°	38	30	21	13	6	3	3	2	1	1	1
80°	15	11	7	2	1	1	0	0	0	0	0
82.5°	3	2	2	2	2	1	1	1	1	0	0
85°	1	0	0	1	0	0	0	0	0	0	0
87.5°	0	1	0	1	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P14681-R2
 CATALOG NUMBER: XTOR2A-N-XTORFLD

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	744	744	744	744	744	744	744	744	744	744	744
2.5°	742	742	740	740	740	739	741	739	738	738	739
5°	735	735	733	733	733	731	730	728	729	727	727
7.5°	726	723	721	719	717	715	714	713	712	711	710
10°	712	709	707	703	701	699	697	696	693	692	689
12.5°	695	690	687	682	679	674	673	670	668	665	664
15°	676	670	663	658	654	648	646	641	638	635	632
17.5°	652	643	636	629	623	620	613	608	602	598	595
20°	624	612	604	594	585	579	572	566	560	554	550
22.5°	593	580	567	555	544	535	528	520	515	507	503
25°	553	538	522	508	495	483	474	465	457	451	443
27.5°	514	495	479	464	448	434	422	412	403	395	388
30°	475	453	435	420	403	387	375	362	352	344	338
32.5°	433	413	396	377	361	344	333	319	308	299	292
35°	389	370	346	326	310	298	285	277	264	254	247
37.5°	346	322	303	284	268	254	242	230	220	211	203
40°	304	284	265	246	230	215	204	189	179	169	162
42.5°	269	246	227	211	192	178	164	149	138	128	119
45°	231	209	189	171	155	139	125	111	99	88	80
47.5°	196	175	156	139	120	104	90	76	66	58	49
50°	162	142	123	104	88	71	58	45	36	29	23
52.5°	129	108	91	74	57	44	32	21	16	11	9
55°	98	79	62	47	33	22	14	9	6	7	8
57.5°	68	54	37	25	15	8	6	8	9	9	7
60°	40	27	16	8	3	2	3	5	4	2	2
62.5°	21	11	5	4	4	4	7	4	3	1	3
65°	8	4	3	4	5	5	3	2	2	2	1
67.5°	1	7	1	1	3	0	0	3	1	0	1
70°	3	1	2	3	2	1	0	1	0	0	2
72.5°	0	0	1	2	1	0	0	0	0	0	0
75°	2	2	3	2	0	0	1	1	1	0	2
77.5°	2	2	0	0	0	0	0	0	0	1	0
80°	0	0	0	0	0	0	1	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	1	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	1	1	2	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P14681-R2
 CATALOG NUMBER: XTOR2A-N-XTORFLD

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	744	744	744	744
2.5°	739	739	737	737
5°	727	726	726	726
7.5°	710	709	709	709
10°	690	689	688	687
12.5°	662	660	661	660
15°	631	629	628	629
17.5°	593	590	589	589
20°	546	543	541	542
22.5°	501	492	491	496
25°	440	439	434	434
27.5°	384	380	377	378
30°	335	327	326	326
32.5°	286	282	280	279
35°	242	236	233	235
37.5°	197	192	189	190
40°	156	149	147	146
42.5°	114	108	105	104
45°	74	70	67	66
47.5°	44	39	37	40
50°	20	18	17	19
52.5°	11	12	13	13
55°	11	13	14	16
57.5°	6	7	8	8
60°	4	3	3	4
62.5°	2	2	3	4
65°	2	2	2	2
67.5°	1	0	0	2
70°	0	0	0	3
72.5°	0	0	0	0
75°	2	1	0	1
77.5°	0	0	0	0
80°	0	0	0	0
82.5°	0	0	0	0
85°	0	0	0	0
87.5°	0	0	0	0
90°	0	0	0	0

(END OF REPORT)