

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: P27500

Luminaire Tested: **XTOR2B-FLD-KNC**

Test Date: 04/11/16

**Test Information**

Test Method: LM-79-08  
Report Number: P27500  
Test Lab: INNOVATION CENTER-P2  
Test Date: 04/11/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: XTOR2B-FLD-KNC  
Description: CROSSTOUR 18W FLOOD LED WITH BRONZE HOUSING AND VISOR  
Light Source: (1) 3500K CITIZEN LED  
CLL028-1203C4-50AL7K3  
Ballast/Driver: (1) ERP ELECTRONIC DRIVER  
ESS020W-0425-42-CPLV

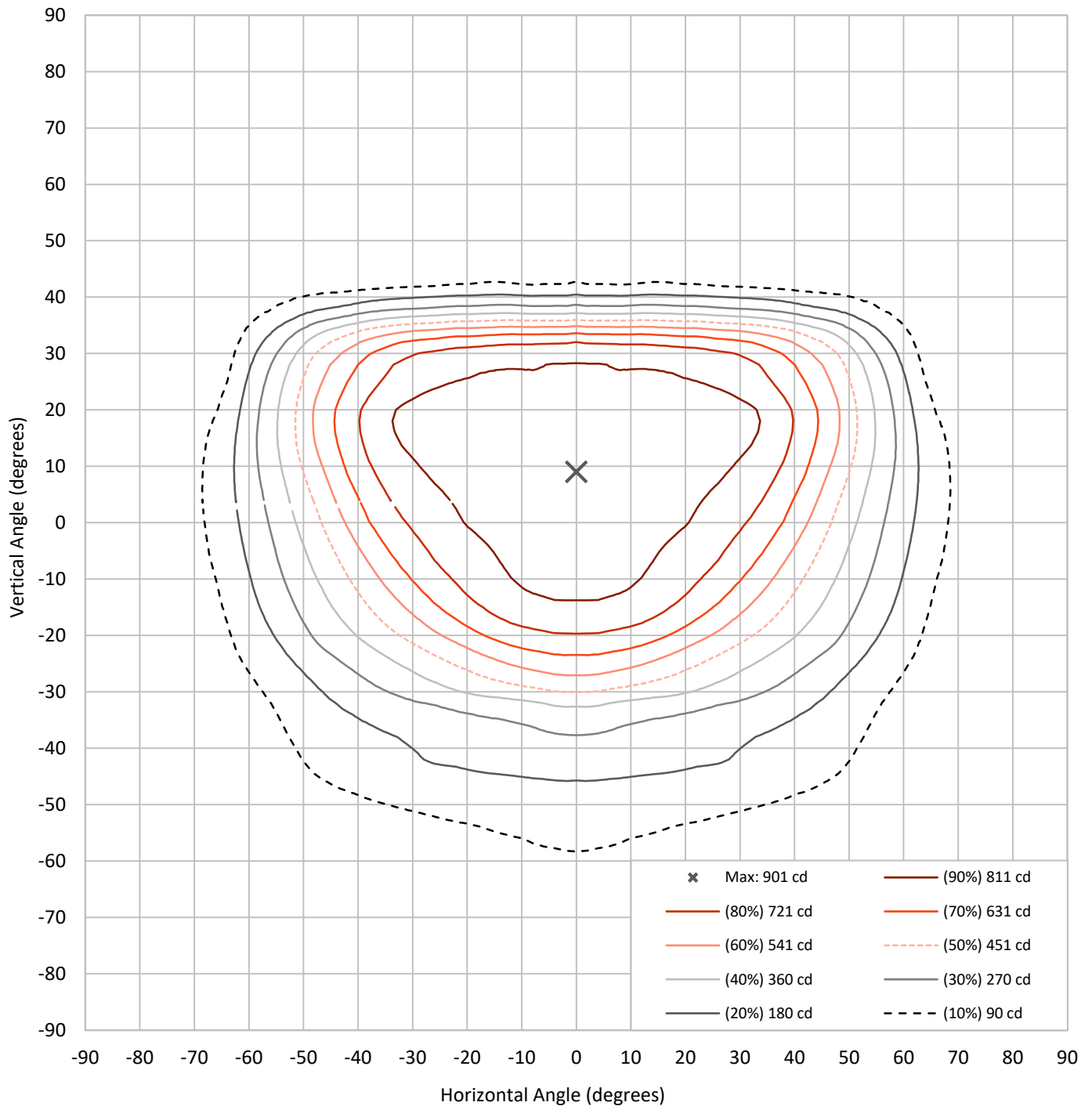
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	1491.3 lumens	Max Intensity:	901 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 9°V
Efficacy:	81.9 lumens/watt		
Luminous Opening:	(L: 0' x W: 0.46' x H: 0.17')		
Beam Angle (50%):	100.1°H x 66°V	Field Angle (10%):	137°H x 100.6°V
Beam Lumens:	1104.1 lumens	Field Lumens:	1416.9 lumens
Beam Efficiency:	74.0%	Field Efficiency:	95.0%
Input Watts (W):	18.2		
Input Voltage (V):	120.0		
Input Current (Ain):	0.153		
Voltage Rise (V):	NR		
Power Factor:	0.9982		
Total Harmonic Distortion (THDi):	14.2%		
Frequency (hertz):	60		
Stabilization Time:	0.5 HR		
Operation Time:	24 HR		
Ambient Temperature (°C):	25.2		
Test Distance:	25 FT		



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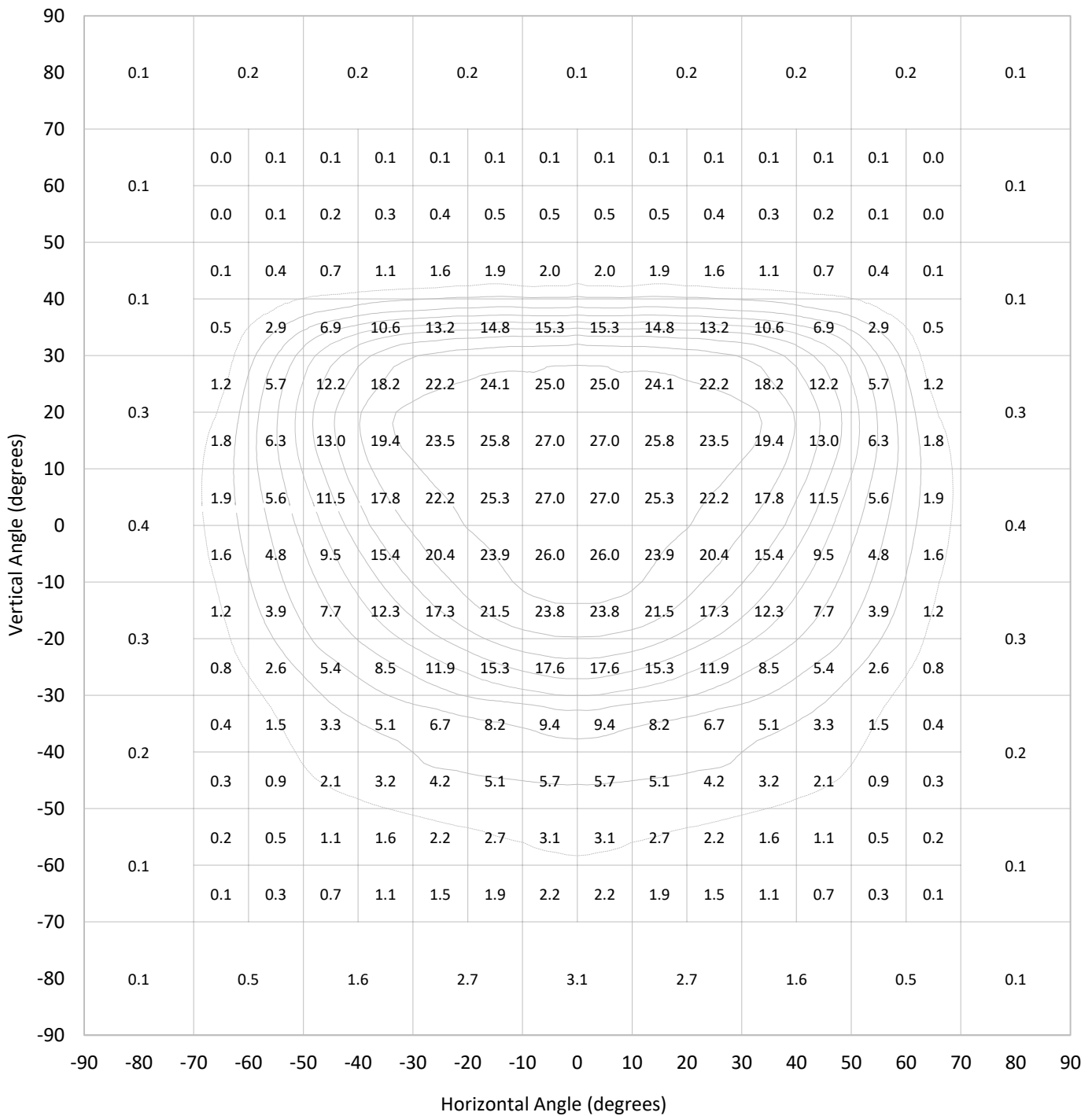
### Iso-Candela Plot





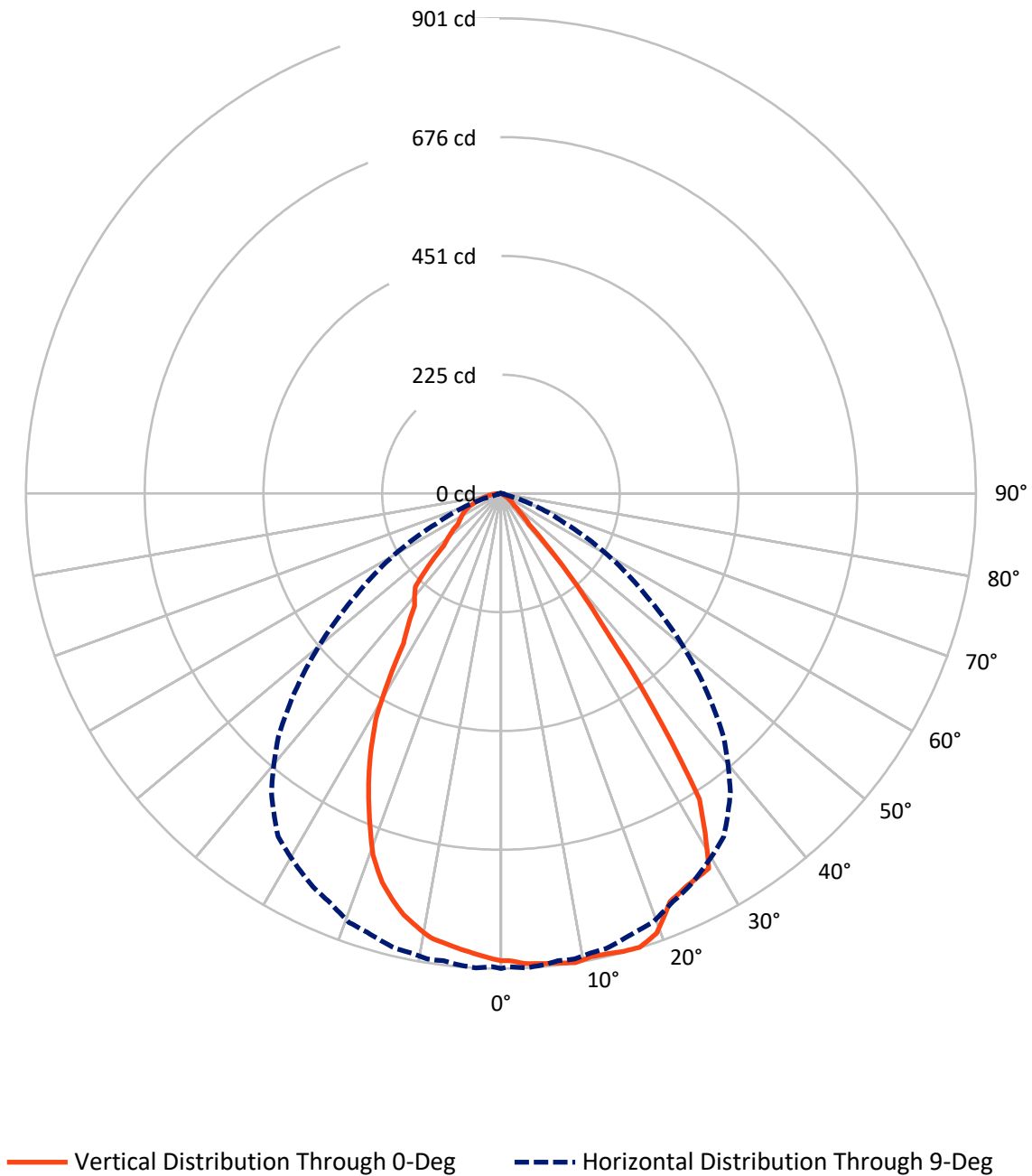
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### Lumen Table



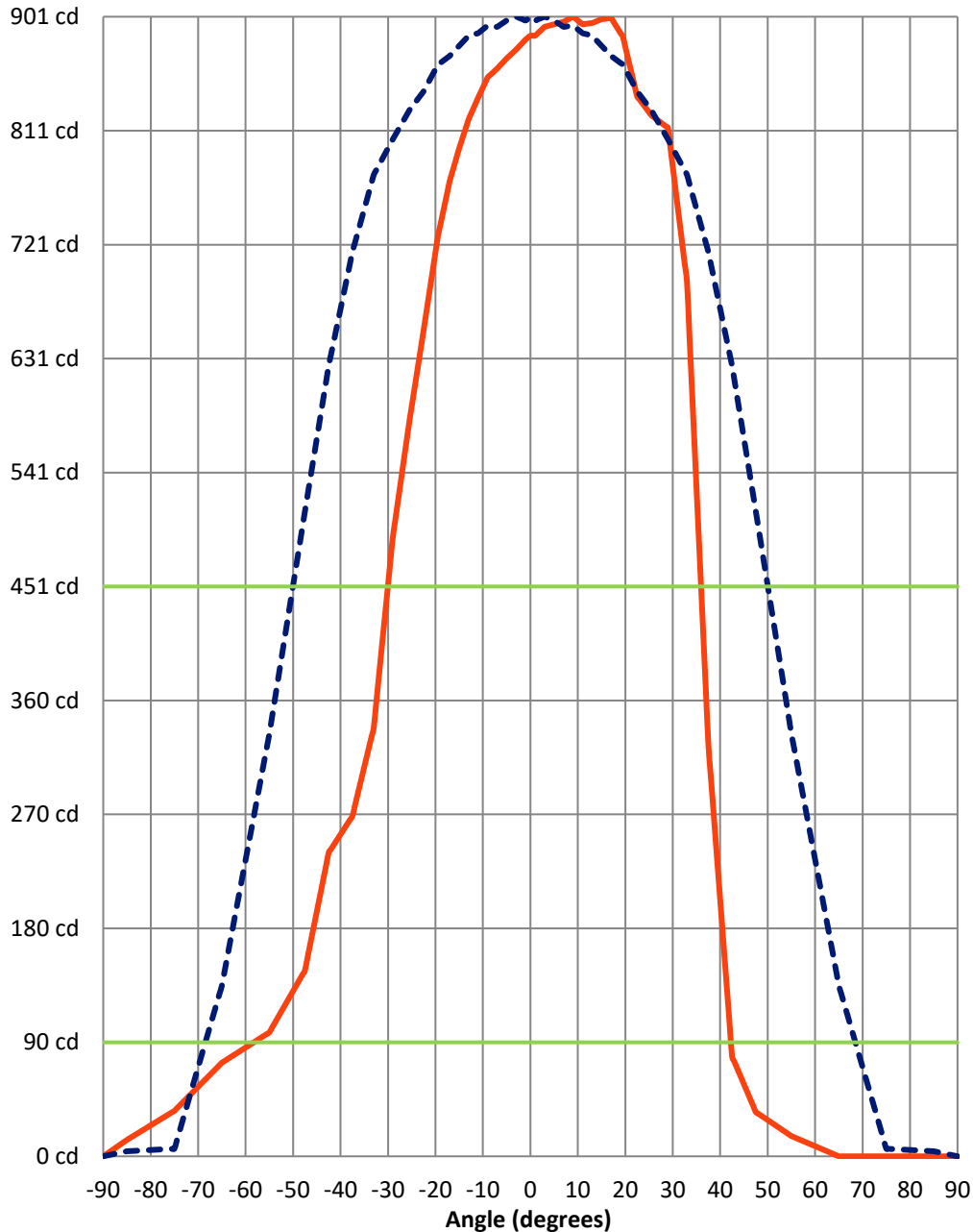
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 100.1°  
 V Angle: 66°  
 Lumens: 1104.1  
 Efficiency: 74.0%

**Field:**  
 H Angle: 137°  
 V Angle: 100.6°  
 Lumens: 1416.9  
 Efficiency: 95.0%

**Spill:**  
 Lumens: 74.5  
 Efficiency: 5.0%

— Vertical Distribution through 0-Deg  
 - - - Horizontal Distribution through 9-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	0	1	1	1	2	2	2	2	2	2	3
75°	0	0	0	1	1	1	1	1	1	1	1
65°	0	0	0	1	1	1	1	1	1	1	1
55°	16	16	16	16	16	16	16	16	16	15	15
47.5°	35	35	34	33	32	30	29	28	27	25	23
42.5°	79	73	70	74	69	69	72	77	81	78	72
37.5°	326	316	317	316	315	316	326	329	326	320	315
33°	691	679	683	678	681	674	679	675	669	662	655
29°	813	810	813	810	804	805	804	806	802	802	793
25.5°	823	820	824	821	814	818	816	818	816	817	812
22.5°	838	834	839	834	829	831	830	834	833	835	835
19.5°	885	882	885	882	877	877	872	874	873	874	874
17°	900	897	901	897	889	891	886	887	883	880	878
15°	899	897	901	897	890	892	887	886	881	877	874
13°	896	893	899	896	892	893	886	885	879	873	868
11°	895	893	898	896	891	892	886	885	878	872	866
9°	901	898	901	898	893	894	888	886	878	870	863
7°	897	895	899	895	887	889	882	881	873	863	852
5°	895	892	897	891	883	882	874	874	864	853	844
3°	893	890	895	889	881	879	868	863	854	845	836
1°	886	885	890	884	877	875	862	858	845	835	824
0°	886	883	887	881	873	871	859	855	840	830	820
-1°	883	881	884	878	869	867	854	850	835	824	813
-3°	875	872	876	869	861	856	844	837	823	812	798
-5°	868	865	869	862	851	848	833	827	813	800	787
-7°	860	858	861	853	844	840	827	818	803	790	775
-9°	853	851	853	847	835	833	819	811	793	779	763
-11°	837	834	839	833	825	821	808	799	781	766	746
-13°	820	817	822	818	810	807	794	784	763	747	726
-15°	797	796	799	794	786	783	769	759	741	725	701
-17°	771	768	774	767	757	754	741	732	713	695	667
-19.5°	727	722	728	722	713	707	694	683	662	643	614
-22.5°	653	653	656	648	638	632	618	605	584	565	538
-25.5°	581	581	582	573	562	553	539	524	506	490	467
-29°	489	489	489	479	468	458	449	434	422	415	398
-33°	339	340	341	330	318	305	304	295	294	293	284
-37.5°	269	268	267	262	257	250	245	238	231	223	214
-42.5°	240	241	242	235	228	223	217	213	211	207	200
-47.5°	147	148	149	145	145	144	141	139	135	133	129
-55°	98	98	97	96	95	93	91	89	87	84	80
-65°	74	75	73	73	73	72	71	70	68	66	63
-75°	36	37	36	36	36	36	36	35	35	35	34
-85°	13	13	14	15	15	15	15	15	15	15	15
-90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	3	3	3	3	3	3	3	3	3	3	4
75°	2	2	2	2	2	2	3	3	3	3	4
65°	1	1	1	1	2	2	2	3	3	3	4
55°	15	16	15	14	12	9	6	5	3	4	4
47.5°	21	20	17	14	11	8	7	6	4	4	4
42.5°	72	66	61	55	44	33	31	28	5	4	4
37.5°	314	303	291	282	259	215	184	102	8	5	4
33°	654	630	618	592	544	468	382	213	21	5	4
29°	787	773	758	719	664	579	485	284	40	6	4
25.5°	806	796	782	750	695	617	518	320	61	6	4
22.5°	832	825	810	782	728	645	546	340	80	6	4
19.5°	870	866	851	821	761	670	563	351	98	6	4
17°	872	865	849	821	763	671	562	354	112	6	4
15°	863	855	838	812	755	663	557	354	120	6	4
13°	855	845	826	801	744	653	545	350	127	6	4
11°	848	835	815	789	731	639	529	343	132	6	4
9°	842	827	804	776	715	625	510	334	135	6	4
7°	831	815	789	760	699	608	492	324	136	7	4
5°	819	802	775	744	682	588	474	314	136	7	4
3°	810	791	761	728	663	570	457	307	134	7	4
1°	800	779	747	712	647	550	441	298	130	7	4
0°	795	771	741	704	638	539	433	294	128	7	4
-1°	787	764	735	695	626	527	425	290	126	7	4
-3°	771	754	719	676	603	506	409	281	121	7	4
-5°	760	739	701	654	577	483	395	272	116	8	4
-7°	747	725	684	631	551	464	382	264	110	8	4
-9°	733	707	662	605	527	445	368	254	103	8	4
-11°	714	684	638	576	503	426	352	245	97	8	4
-13°	692	660	607	547	479	407	339	233	91	8	4
-15°	663	627	574	519	457	388	325	221	85	8	4
-17°	629	592	541	491	432	368	310	207	80	9	4
-19.5°	577	542	498	452	401	342	289	189	72	9	4
-22.5°	506	475	439	399	354	304	259	163	64	9	4
-25.5°	442	414	382	348	308	265	217	137	54	9	4
-29°	379	351	329	299	264	224	179	112	42	9	4
-33°	269	253	246	226	206	180	150	91	31	9	4
-37.5°	209	202	193	182	167	149	128	76	23	8	4
-42.5°	191	189	174	161	147	130	107	55	18	8	4
-47.5°	125	121	115	108	100	89	73	31	16	8	4
-55°	77	72	67	62	56	50	43	24	15	7	4
-65°	60	57	53	47	42	34	26	16	11	7	4
-75°	33	32	30	28	25	22	17	11	8	6	4
-85°	15	14	14	13	13	11	10	8	7	5	4
-90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	90°
90°	0
85°	0
75°	0
65°	0
55°	0
47.5°	0
42.5°	0
37.5°	0
33°	0
29°	0
25.5°	0
22.5°	0
19.5°	0
17°	0
15°	0
13°	0
11°	0
9°	0
7°	0
5°	0
3°	0
1°	0
0°	0
-1°	0
-3°	0
-5°	0
-7°	0
-9°	0
-11°	0
-13°	0
-15°	0
-17°	0
-19.5°	0
-22.5°	0
-25.5°	0
-29°	0
-33°	0
-37.5°	0
-42.5°	0
-47.5°	0
-55°	0
-65°	0
-75°	0
-85°	0
-90°	0

(END OF REPORT)