

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: HALO

Report Number: P601068

Luminaire Tested: **FSS1530**

Issue Date: 09/14/16

Test Information

Test Method: LM-79-08
Report Number: P601068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28247)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 09/14/16
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: FSS1530
Description: SMALL SINGLE HEAD LED FLOOD RAN AT 30°
Light Source: (1) 5000K, 70 CRI LED
Ballast/Driver: -

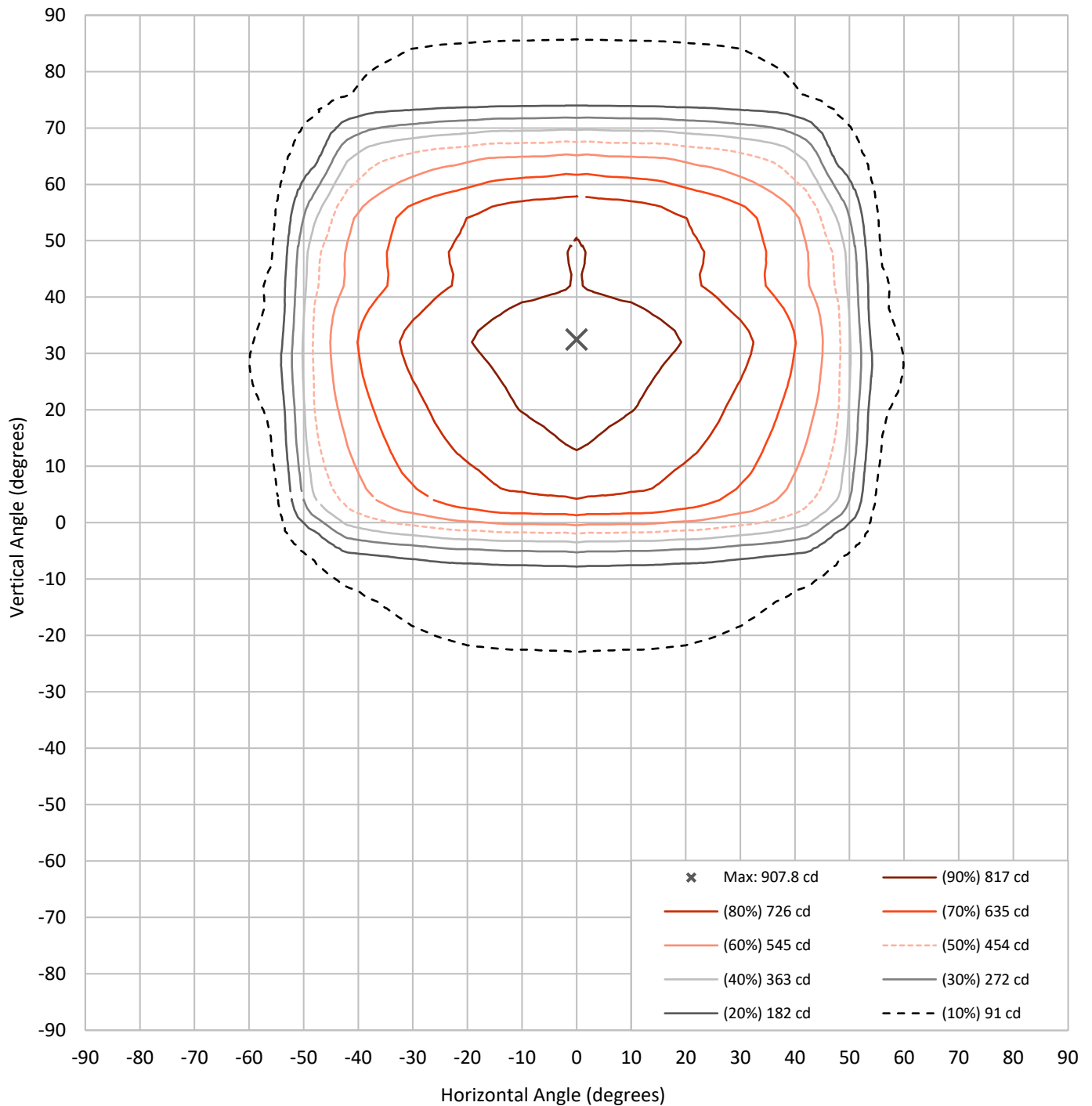
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	1474.1 lumens	Max Intensity:	907.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 32.5°V
Efficacy:	71.9 lumens/watt		
Luminous Opening:	(L: 0 ' x W: 0.33 ' x H: 0 ')		
Beam Angle (50%):	96.6°H x 69.4°V	Field Angle (10%):	118.1°H x 108.8°V
Beam Lumens:	1168.2 lumens	Field Lumens:	1402.7 lumens
Beam Efficiency:	79.3%	Field Efficiency:	95.2%
Input Watts (W):	20.5		
Input Voltage (V):	120		
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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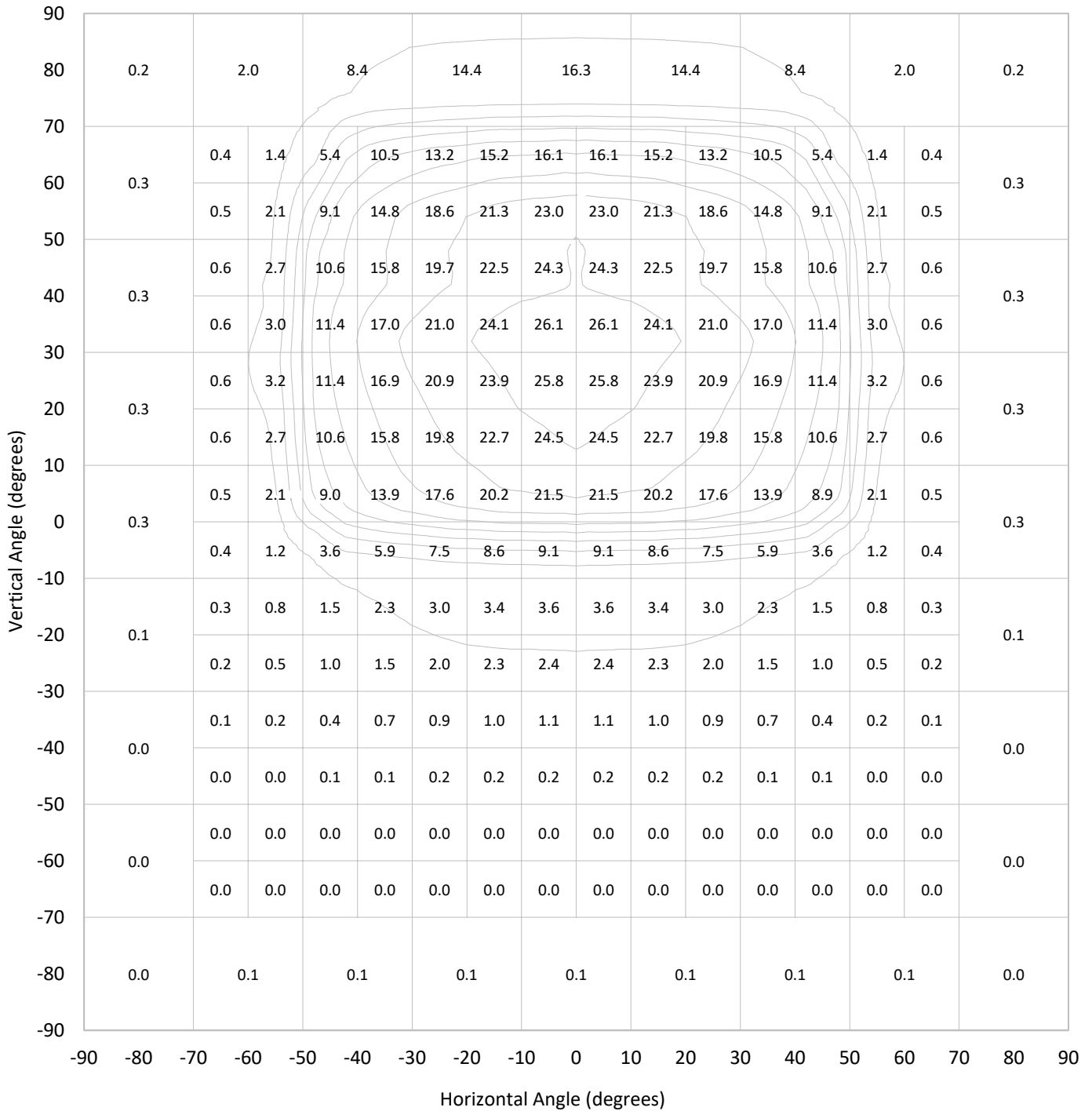
Iso-Candela Plot





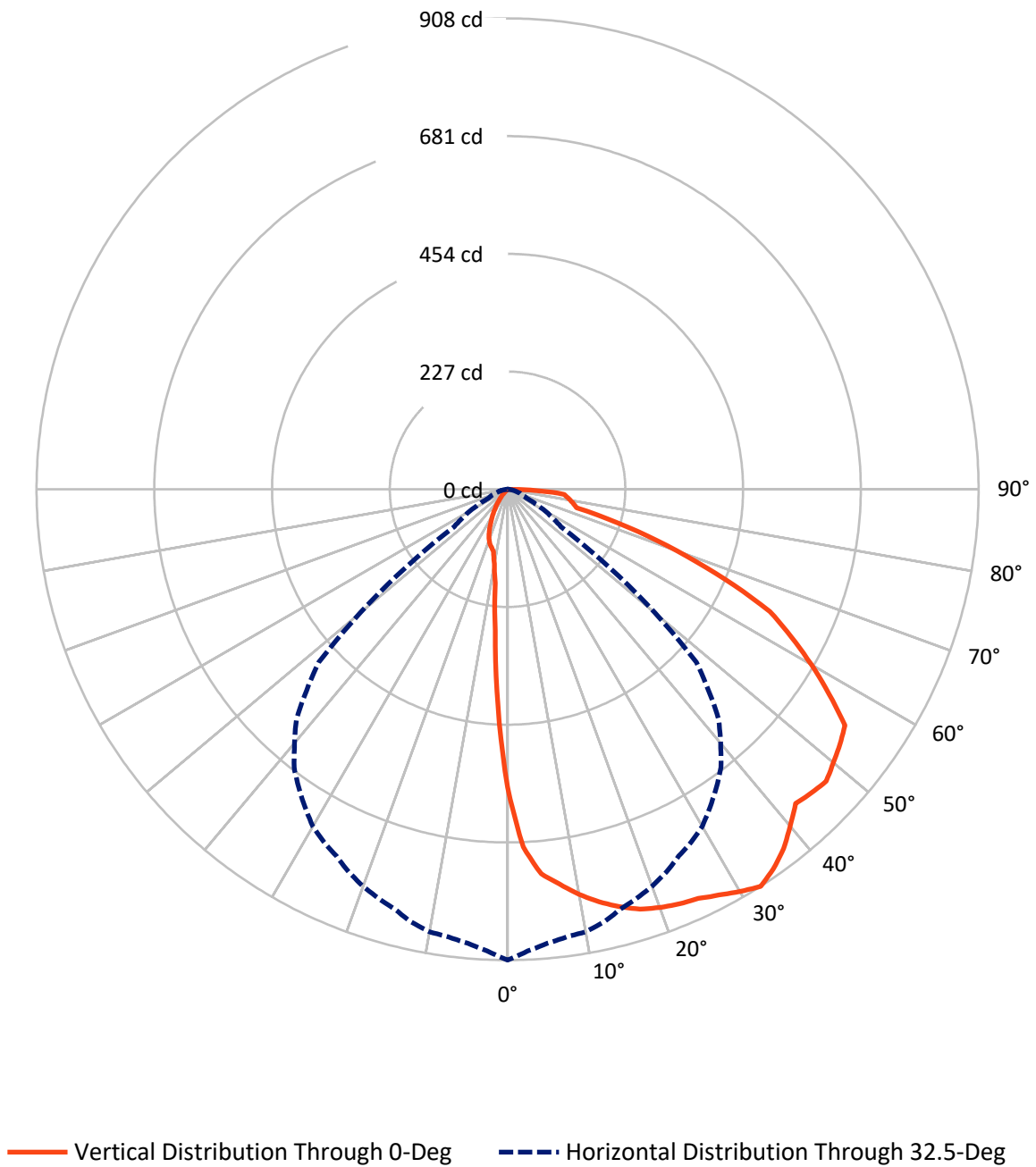
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Lumen Table



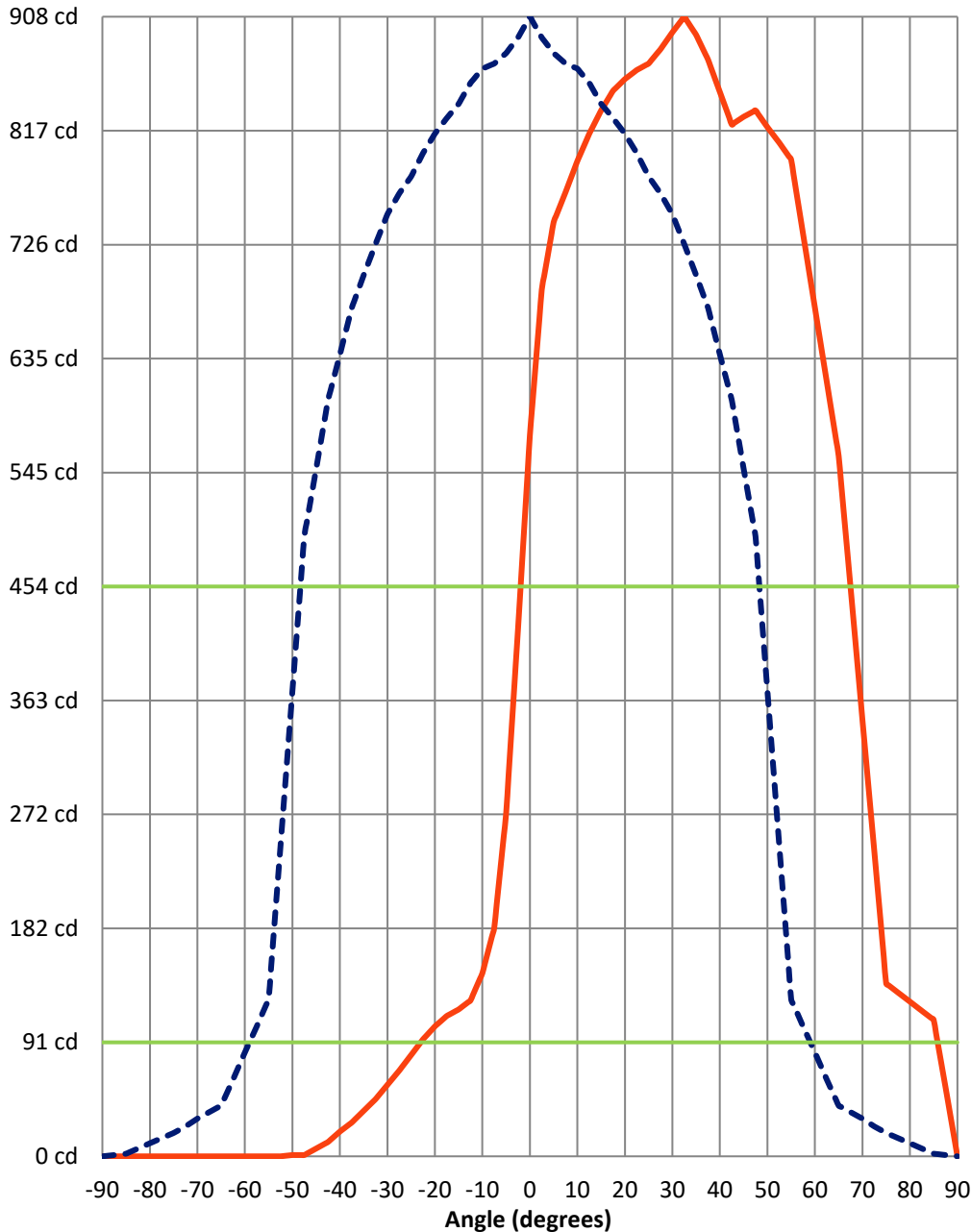
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 96.6°
 V Angle: 69.4°
 Lumens: 1168.2
 Efficiency: 79.3%

Field:
 H Angle: 118.1°
 V Angle: 108.8°
 Lumens: 1402.7
 Efficiency: 95.2%

Spill:
 Lumens: 71.3
 Efficiency: 4.8%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 32.5-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	1	1	1	2	2	3	4	6	7	8
85°	0	1	2	3	4	5	6	9	12	15	18
82.5°	0	1	2	3	5	6	7	10	14	17	20
80°	0	1	2	4	5	7	8	11	16	19	22
77.5°	0	1	2	4	6	7	9	14	17	20	24
75°	0	1	2	4	6	8	10	15	19	22	26
72.5°	0	1	2	4	6	9	11	16	20	24	28
70°	0	1	2	4	7	9	12	17	21	25	30
67.5°	0	1	2	5	7	10	12	18	22	27	31
65°	0	1	2	5	8	10	14	19	24	28	33
62.5°	0	1	2	5	8	11	15	19	24	29	34
60°	0	1	2	5	8	11	15	20	25	30	36
57.5°	0	1	2	5	8	11	16	21	26	31	37
55°	0	1	2	5	9	12	16	22	27	33	38
52.5°	0	1	2	5	9	12	16	22	27	33	38
50°	0	1	2	5	9	12	17	22	28	33	39
47.5°	0	1	2	6	9	14	17	23	28	34	39
45°	0	1	2	6	9	14	18	23	28	34	39
42.5°	0	1	2	6	10	14	18	23	28	34	39
40°	0	1	2	6	10	14	18	23	29	34	40
37.5°	0	1	2	6	10	14	18	23	29	35	40
35°	0	1	2	6	10	15	19	24	29	35	40
32.5°	0	1	2	6	10	15	19	24	30	35	40
30°	0	1	2	6	10	15	19	24	29	35	40
27.5°	0	1	2	6	10	15	19	24	29	35	40
25°	0	1	2	6	10	14	18	24	29	35	40
22.5°	0	1	2	6	10	14	18	24	29	35	40
20°	0	1	2	6	10	14	18	24	29	35	40
17.5°	0	1	2	6	10	14	18	24	29	34	40
15°	0	1	2	6	9	14	17	23	29	34	40
12.5°	0	1	2	6	9	14	17	23	28	33	39
10°	0	1	2	5	9	12	17	22	28	33	39
7.5°	0	1	2	5	9	12	16	21	27	32	37
5°	0	1	2	5	8	11	15	21	26	32	37
2.5°	0	1	2	5	8	11	15	20	25	31	36
0°	0	1	2	5	8	10	14	19	24	29	34
-2.5°	0	1	2	5	7	10	12	18	23	28	33
-5°	0	1	2	4	7	9	11	17	22	26	31
-7.5°	0	1	2	4	6	9	11	16	21	25	30
-10°	0	1	2	4	6	8	9	15	19	23	28
-12.5°	0	1	2	4	5	7	8	12	17	21	26
-15°	0	1	2	4	5	7	8	12	16	20	23
-17.5°	0	1	2	3	4	6	7	10	14	17	21
-20°	0	1	2	3	4	5	6	9	12	16	19



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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	2	3	4	4	5	8	10	14	16
-25°	0	1	2	3	3	4	4	6	8	10	12
-27.5°	0	1	1	2	2	3	3	5	7	9	10
-30°	0	1	1	2	2	3	3	4	6	7	8
-32.5°	0	1	1	2	2	3	3	4	5	6	6
-35°	0	1	1	1	2	2	3	3	4	4	5
-37.5°	0	1	1	1	2	2	2	3	3	4	4
-40°	0	1	1	1	2	2	2	2	3	3	3
-42.5°	0	1	1	1	2	2	2	2	2	2	2
-45°	0	1	1	1	1	1	2	2	2	2	2
-47.5°	0	1	1	1	1	1	1	1	1	1	1
-50°	0	1	1	1	1	1	1	1	1	1	1
-52.5°	0	1	1	1	1	1	1	1	1	1	1
-55°	0	1	1	1	1	1	1	1	1	1	1
-57.5°	0	1	1	1	1	1	1	1	1	1	1
-60°	0	1	1	1	1	1	1	1	1	1	1
-62.5°	0	1	1	1	1	1	1	1	1	1	1
-65°	0	1	1	1	1	1	1	1	1	1	1
-67.5°	0	1	1	1	1	1	1	1	1	1	1
-70°	0	1	1	1	1	1	1	1	1	1	2
-72.5°	0	1	1	1	1	1	1	1	1	2	2
-75°	0	1	1	1	1	1	1	1	2	2	2
-77.5°	0	1	1	1	1	1	1	1	2	2	2
-80°	0	1	1	1	1	1	1	1	2	2	2
-82.5°	0	1	1	1	1	1	1	1	2	2	2
-85°	0	1	1	1	1	1	1	1	2	2	2
-87.5°	0	0	1	1	1	1	1	1	1	1	1
-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°	11	14	16	18	21	24	27	29	32	35	37
85°	22	27	31	35	41	47	53	59	64	69	76
82.5°	25	29	34	39	45	51	57	64	70	77	84
80°	27	32	37	42	49	55	62	69	77	84	92
77.5°	29	35	40	47	53	59	66	75	82	91	100
75°	32	38	44	50	57	63	70	79	88	98	109
72.5°	34	40	47	53	65	78	91	121	151	169	187
70°	36	42	49	56	75	93	112	163	214	240	267
67.5°	38	45	52	58	83	108	132	204	276	312	346
65°	40	47	54	61	91	122	152	246	340	382	424
62.5°	42	50	58	65	112	157	204	294	384	424	464
60°	45	53	61	69	132	194	255	342	429	467	504
57.5°	47	55	64	74	151	229	306	390	473	508	545
55°	49	58	68	78	171	265	358	438	518	551	584
52.5°	50	60	70	82	184	287	390	459	528	560	592
50°	51	62	74	85	198	310	421	479	537	568	599
47.5°	52	64	77	89	210	332	453	500	548	578	608
45°	54	68	83	98	216	335	455	501	547	577	607
42.5°	56	74	90	107	224	340	457	501	546	576	605
40°	56	73	89	106	228	349	471	518	564	594	625
37.5°	56	73	89	105	232	358	486	534	583	614	645
35°	59	78	96	114	239	364	490	542	594	628	663
32.5°	61	83	104	125	247	371	494	548	602	639	676
30°	65	89	113	138	256	374	493	546	599	634	669
27.5°	65	90	115	140	256	372	489	541	594	628	661
25°	63	86	109	132	250	366	483	535	588	621	654
22.5°	60	80	98	118	240	362	484	530	577	610	643
20°	57	74	90	106	230	354	478	522	565	599	632
17.5°	55	69	85	99	224	348	471	512	554	588	621
15°	54	68	83	96	218	341	463	503	543	577	610
12.5°	52	65	78	90	209	328	448	491	533	564	596
10°	50	60	70	82	198	314	431	475	520	552	583
7.5°	47	55	63	73	186	299	413	459	504	536	567
5°	45	52	58	65	176	287	398	442	487	520	552
2.5°	42	50	56	63	155	248	341	394	449	480	511
0°	41	48	55	61	121	182	242	309	375	401	425
-2.5°	39	46	53	59	91	122	154	216	278	295	313
-5°	37	45	51	57	73	89	105	143	180	189	199
-7.5°	35	42	49	55	65	77	88	105	120	126	133
-10°	33	39	46	52	60	67	76	87	98	105	112
-12.5°	31	37	42	49	55	62	69	76	83	88	94
-15°	28	34	39	45	51	58	64	70	77	82	86
-17.5°	25	30	35	40	47	53	59	65	71	77	82
-20°	23	27	31	35	41	47	53	59	65	70	76



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	20	24	27	31	36	41	47	53	58	63	67
-25°	17	20	24	27	31	35	39	45	50	54	58
-27.5°	14	17	20	23	26	30	33	37	41	46	49
-30°	11	14	16	19	22	25	28	31	34	37	40
-32.5°	8	10	12	15	17	20	22	25	27	30	32
-35°	7	8	9	11	14	16	17	19	21	23	25
-37.5°	5	6	7	8	9	11	12	14	15	17	18
-40°	4	4	5	6	7	8	9	9	10	11	12
-42.5°	2	3	3	3	4	4	5	6	6	7	7
-45°	2	2	2	2	3	3	4	4	4	4	5
-47.5°	1	1	1	1	1	2	2	2	2	2	2
-50°	1	1	1	1	1	1	2	2	2	2	2
-52.5°	1	1	1	1	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	1	1	1	1	1
-60°	1	1	1	2	1	1	1	1	1	1	1
-62.5°	1	1	2	2	2	1	1	1	1	1	1
-65°	1	2	2	2	2	1	1	1	1	1	1
-67.5°	1	2	2	2	2	2	1	1	1	1	1
-70°	2	2	2	2	2	2	2	1	1	1	1
-72.5°	2	2	2	2	2	2	2	1	1	1	1
-75°	2	2	2	2	2	2	2	2	1	1	1
-77.5°	2	2	2	2	2	2	2	2	1	1	1
-80°	2	2	2	2	2	2	2	2	2	2	2
-82.5°	2	2	2	2	2	2	2	2	2	2	2
-85°	2	2	2	2	2	2	2	2	2	2	2
-87.5°	1	1	1	1	1	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	40	42	45	47	48	49	50	52	52	53	53
85°	80	85	89	92	96	98	100	103	105	106	106
82.5°	88	92	95	99	104	106	108	110	112	113	113
80°	96	100	103	107	111	113	115	116	119	120	120
77.5°	105	108	110	113	118	120	122	122	126	126	127
75°	112	115	117	120	125	127	129	128	134	134	135
72.5°	196	202	207	213	221	224	228	231	238	237	239
70°	278	290	297	306	316	320	326	333	342	341	343
67.5°	361	377	388	400	411	415	424	436	446	444	447
65°	444	464	478	494	506	511	523	539	550	548	552
62.5°	487	507	524	540	554	561	573	588	599	601	606
60°	528	552	570	587	601	611	623	637	650	655	660
57.5°	570	595	616	634	649	660	674	686	700	709	715
55°	612	639	661	680	697	710	725	735	749	763	770
52.5°	620	646	668	687	704	717	731	741	755	767	776
50°	627	653	675	695	711	726	736	747	761	771	782
47.5°	635	660	681	701	719	733	741	754	766	774	788
45°	631	656	677	698	715	729	740	753	764	773	785
42.5°	628	652	673	694	712	724	738	752	761	771	782
40°	648	672	693	713	731	744	761	775	785	796	807
37.5°	668	690	712	732	749	764	784	798	807	821	833
35°	687	711	734	753	767	784	802	815	826	841	853
32.5°	702	727	750	767	781	799	815	827	838	855	866
30°	696	722	744	761	773	793	806	818	828	844	854
27.5°	688	713	736	752	765	784	798	808	819	833	843
25°	680	704	725	741	757	775	789	799	811	823	832
22.5°	671	697	716	733	749	768	782	791	803	816	825
20°	660	686	705	724	742	761	773	784	797	811	819
17.5°	650	676	695	713	733	750	764	774	788	800	807
15°	638	664	681	701	720	738	750	761	774	785	792
12.5°	625	651	669	687	707	725	735	745	759	770	776
10°	613	639	655	675	695	712	723	732	745	757	762
7.5°	597	624	641	660	681	698	709	717	731	740	744
5°	581	607	623	643	665	682	696	704	715	725	727
2.5°	537	561	577	596	617	635	644	651	666	673	674
0°	445	465	477	494	511	527	534	538	553	559	559
-2.5°	327	340	349	360	373	385	387	390	403	406	405
-5°	208	216	223	231	240	247	247	250	259	261	261
-7.5°	139	145	148	153	159	164	166	168	172	175	174
-10°	116	121	124	128	134	137	140	140	143	144	143
-12.5°	98	104	106	109	113	116	118	119	120	121	121
-15°	90	95	98	101	105	108	110	111	113	114	114
-17.5°	86	89	93	96	98	103	104	106	108	109	109
-20°	79	83	86	89	92	94	97	98	99	100	100



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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°	71	76	78	81	84	86	88	89	90	91	91
-25°	61	64	67	69	73	75	77	78	79	80	80
-27.5°	52	55	57	59	61	63	65	66	66	67	67
-30°	42	46	47	49	50	53	54	55	55	56	56
-32.5°	33	35	37	38	39	41	42	44	45	45	45
-35°	26	28	29	30	31	32	33	34	35	35	35
-37.5°	19	20	22	22	23	24	25	25	26	26	26
-40°	14	15	16	16	17	18	18	18	19	19	19
-42.5°	8	8	9	9	9	10	10	10	11	11	11
-45°	5	5	5	6	6	6	6	6	6	7	7
-47.5°	2	2	2	2	2	2	2	1	1	2	2
-50°	2	2	2	2	2	2	2	1	1	2	2
-52.5°	1	1	1	1	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	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	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	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	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	2	2	2	2	2	2	2	2	2	1	1
-82.5°	2	2	2	2	2	2	2	2	2	1	1
-85°	2	2	2	2	2	2	2	2	2	1	1
-87.5°	1	1	1	1	1	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P601068
 CATALOG NUMBER: FSS1530

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°	53	54	54	55	54	54	53	53	53	52	52
85°	107	108	108	109	108	108	107	106	106	105	103
82.5°	114	115	115	116	115	115	114	113	113	112	110
80°	121	122	122	123	122	122	121	120	120	119	116
77.5°	128	129	129	130	129	129	128	127	126	126	122
75°	137	137	137	138	137	137	137	135	134	134	128
72.5°	240	241	244	243	244	241	240	239	237	238	231
70°	345	345	352	348	352	345	345	343	341	342	333
67.5°	448	449	460	453	460	449	448	447	444	446	436
65°	553	553	567	558	567	553	553	552	548	550	539
62.5°	609	610	622	617	622	610	609	606	601	599	588
60°	666	667	676	676	676	667	666	660	655	650	637
57.5°	723	724	731	735	731	724	723	715	709	700	686
55°	779	781	786	794	786	781	779	770	763	749	735
52.5°	785	788	794	807	794	788	785	776	767	755	741
50°	791	796	803	820	803	796	791	782	771	761	747
47.5°	797	803	812	833	812	803	797	788	774	766	754
45°	792	800	805	828	805	800	792	785	773	764	753
42.5°	788	796	800	822	799	796	788	782	771	761	752
40°	813	821	827	848	828	821	813	807	796	785	775
37.5°	837	846	856	874	856	846	837	833	821	807	798
35°	857	865	877	893	877	865	857	853	841	826	815
32.5°	871	879	891	908	891	879	871	866	855	838	827
30°	858	867	880	895	880	867	858	854	844	828	818
27.5°	847	856	868	882	868	856	847	843	833	819	808
25°	837	847	858	871	858	847	837	832	823	811	799
22.5°	831	841	853	865	853	841	831	825	816	803	791
20°	826	833	848	858	848	833	826	819	811	797	784
17.5°	816	824	838	849	838	824	816	807	800	788	774
15°	800	808	823	833	823	808	800	792	785	774	761
12.5°	784	793	805	815	805	793	784	776	770	759	745
10°	768	775	784	793	784	775	768	762	757	745	732
7.5°	752	756	760	768	760	756	752	744	740	731	717
5°	733	736	738	744	738	736	733	727	725	715	704
2.5°	679	681	680	690	680	681	679	674	673	666	651
0°	561	564	560	575	560	564	561	559	559	553	538
-2.5°	409	413	407	420	407	413	409	405	406	403	390
-5°	263	267	262	273	262	267	263	261	261	259	250
-7.5°	176	179	177	182	177	179	176	174	175	172	168
-10°	145	147	146	146	146	147	145	144	144	143	140
-12.5°	122	123	123	124	123	123	122	121	121	121	119
-15°	115	116	116	117	116	116	115	114	114	113	111
-17.5°	109	111	111	112	111	111	109	109	109	108	106
-20°	101	103	103	104	103	103	101	100	100	99	98



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	91	92	92	93	92	92	91	91	91	90	89
-25°	80	80	80	81	80	80	80	80	80	79	78
-27.5°	67	68	68	68	68	68	67	67	67	66	66
-30°	56	57	57	57	57	57	56	56	56	55	55
-32.5°	45	46	45	46	45	46	45	45	45	45	44
-35°	35	35	35	36	35	35	35	35	35	35	34
-37.5°	26	26	26	27	26	26	26	26	26	26	25
-40°	19	19	19	20	19	19	19	19	19	19	18
-42.5°	11	11	11	11	11	11	11	11	11	11	10
-45°	6	6	6	6	6	6	6	7	7	6	6
-47.5°	1	1	1	1	1	1	1	2	2	1	1
-50°	1	1	1	1	1	1	1	2	2	1	1
-52.5°	1	0	0	0	0	0	1	1	1	1	1
-55°	0	0	0	0	0	0	0	1	1	1	1
-57.5°	0	0	0	0	0	0	0	1	1	1	1
-60°	1	0	0	0	0	0	1	1	1	1	1
-62.5°	1	0	0	0	0	0	1	1	1	1	1
-65°	1	0	0	0	0	0	1	1	1	1	1
-67.5°	1	0	0	0	0	0	1	1	1	1	1
-70°	1	1	0	0	0	1	1	1	1	1	1
-72.5°	1	1	0	0	0	1	1	1	1	1	1
-75°	1	1	0	0	0	1	1	1	1	1	1
-77.5°	1	1	0	0	0	1	1	1	1	1	1
-80°	1	1	0	0	0	1	1	1	1	2	2
-82.5°	1	1	1	0	1	1	1	1	1	2	2
-85°	1	1	1	0	1	1	1	1	1	2	2
-87.5°	1	1	0	0	0	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	50	49	48	47	45	42	40	37	35	32	29
85°	100	98	96	92	89	85	80	76	69	64	59
82.5°	108	106	104	99	95	92	88	84	77	70	64
80°	115	113	111	107	103	100	96	92	84	77	69
77.5°	122	120	118	113	110	108	105	100	91	82	75
75°	129	127	125	120	117	115	112	109	98	88	79
72.5°	228	224	221	213	207	202	196	187	170	151	121
70°	326	320	316	306	297	290	278	267	240	214	163
67.5°	424	415	411	400	388	377	361	346	312	276	204
65°	523	511	506	494	478	464	444	424	382	340	246
62.5°	573	561	554	540	524	507	487	464	424	384	294
60°	623	611	601	587	570	552	528	504	467	429	342
57.5°	674	660	649	634	616	595	570	545	508	473	390
55°	725	710	697	680	661	639	612	584	551	518	438
52.5°	731	717	704	687	668	646	620	592	560	528	459
50°	736	726	711	695	675	653	627	599	568	537	479
47.5°	741	733	719	701	681	660	635	608	578	548	500
45°	740	729	715	698	677	656	631	607	577	547	501
42.5°	738	724	712	694	673	652	628	605	576	546	501
40°	761	744	731	713	693	672	648	625	594	564	518
37.5°	784	764	749	732	713	690	668	645	614	583	534
35°	802	784	767	753	734	711	687	663	628	594	542
32.5°	815	799	781	767	750	727	702	676	639	602	548
30°	806	793	773	761	744	722	696	669	634	599	546
27.5°	798	784	765	752	736	713	688	661	628	594	541
25°	789	775	757	741	725	704	680	654	621	588	535
22.5°	782	768	749	733	716	697	671	643	610	577	531
20°	773	761	742	724	705	686	660	632	599	565	522
17.5°	764	750	733	713	695	676	650	621	588	554	512
15°	750	738	720	701	681	664	638	610	577	543	503
12.5°	735	725	707	687	669	651	625	597	565	532	490
10°	723	712	695	675	655	639	613	583	552	520	475
7.5°	709	698	681	660	641	624	597	567	536	504	459
5°	696	682	665	643	623	607	581	552	520	487	442
2.5°	644	635	617	596	577	561	536	510	480	449	395
0°	534	527	511	494	477	465	445	425	401	375	309
-2.5°	387	386	373	360	349	340	327	313	295	278	216
-5°	247	247	240	231	223	216	208	199	189	180	143
-7.5°	166	164	159	153	149	145	139	134	126	120	105
-10°	140	137	134	128	124	121	116	112	105	98	87
-12.5°	118	116	113	110	106	104	98	94	88	83	76
-15°	110	108	105	101	98	95	90	86	82	77	70
-17.5°	104	103	98	96	93	89	86	82	77	71	65
-20°	97	94	92	89	86	83	79	76	70	65	59



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	88	86	84	81	78	76	71	67	63	58	53
-25°	77	75	73	69	67	65	61	58	54	50	45
-27.5°	65	63	61	59	57	55	52	49	46	41	37
-30°	54	53	50	49	48	46	42	40	37	34	31
-32.5°	42	41	39	38	37	35	33	32	30	27	25
-35°	33	32	31	30	29	28	26	25	23	21	19
-37.5°	25	24	23	22	22	20	19	18	17	15	14
-40°	18	18	17	16	16	15	14	12	11	10	9
-42.5°	10	10	9	9	9	8	8	7	7	6	6
-45°	6	6	6	6	5	5	5	5	4	4	4
-47.5°	2	2	2	2	2	2	2	2	2	2	2
-50°	2	2	2	2	2	2	2	2	2	2	2
-52.5°	1	1	1	1	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	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	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	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	1	1	1	2
-77.5°	1	1	1	1	1	1	1	1	1	1	2
-80°	2	2	2	2	2	2	2	2	2	2	2
-82.5°	2	2	2	2	2	2	2	2	2	2	2
-85°	2	2	2	2	2	2	2	2	2	2	2
-87.5°	1	1	1	1	1	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	27	24	21	18	16	14	11	8	7	6	4
85°	53	47	41	35	31	27	22	18	15	12	9
82.5°	57	51	45	39	34	29	25	20	17	14	10
80°	62	55	49	42	37	32	27	22	19	16	11
77.5°	66	59	53	47	40	35	29	24	21	17	14
75°	70	63	57	50	44	38	32	26	22	19	15
72.5°	91	78	65	53	47	40	34	28	24	20	16
70°	112	93	75	56	49	42	36	30	25	21	17
67.5°	132	108	83	58	52	45	38	31	27	22	18
65°	152	122	91	61	54	47	40	33	28	24	19
62.5°	204	157	112	65	58	50	42	34	29	24	19
60°	255	194	132	69	61	53	45	36	30	25	20
57.5°	306	229	151	74	64	55	47	37	31	26	21
55°	358	265	171	78	68	58	49	38	33	27	22
52.5°	390	287	184	82	70	60	50	38	33	27	22
50°	421	310	198	85	74	62	51	39	33	28	22
47.5°	453	332	210	89	77	64	52	39	34	28	23
45°	455	335	217	98	83	68	54	39	34	28	23
42.5°	457	340	224	107	90	74	56	39	34	29	23
40°	471	349	228	106	89	73	56	40	34	29	23
37.5°	486	358	232	105	89	73	56	40	35	29	24
35°	490	364	239	114	96	78	59	40	35	29	24
32.5°	494	371	247	125	104	83	61	40	35	30	24
30°	493	374	256	138	113	89	65	40	35	29	24
27.5°	489	372	256	140	115	90	65	40	35	29	24
25°	483	366	250	132	109	86	63	40	35	29	24
22.5°	484	362	240	118	98	80	60	40	35	29	24
20°	478	354	230	106	89	74	57	40	35	29	24
17.5°	471	348	224	99	85	70	55	40	35	29	24
15°	463	341	218	96	82	68	54	40	34	29	23
12.5°	448	328	209	90	78	65	52	39	34	28	23
10°	431	314	198	81	70	60	50	39	33	28	22
7.5°	413	299	186	73	63	55	47	37	32	27	21
5°	398	287	176	65	58	52	45	37	32	26	21
2.5°	341	248	155	63	56	50	42	36	31	25	20
0°	242	182	121	61	55	48	41	34	29	24	19
-2.5°	154	122	91	59	53	46	39	33	28	23	18
-5°	105	89	73	57	51	45	37	31	26	22	17
-7.5°	88	77	65	55	49	42	36	30	25	21	16
-10°	76	67	60	52	46	39	33	28	23	19	15
-12.5°	69	62	55	49	42	37	31	26	21	17	12
-15°	64	58	51	45	39	34	28	23	20	16	12
-17.5°	59	53	47	40	35	30	25	21	17	14	10
-20°	53	47	41	35	31	27	23	19	16	12	9



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	47	41	36	31	27	24	20	16	14	10	8
-25°	39	35	31	27	24	20	17	14	10	8	6
-27.5°	33	30	26	23	20	17	14	10	9	7	5
-30°	28	25	22	19	16	14	11	8	7	6	4
-32.5°	22	20	17	15	12	10	8	6	6	5	4
-35°	17	16	14	11	9	8	7	5	4	4	3
-37.5°	12	11	9	8	7	6	5	4	4	3	3
-40°	9	8	7	6	5	4	4	3	3	3	2
-42.5°	5	4	4	3	3	3	2	2	2	2	2
-45°	4	3	3	2	2	2	2	2	2	2	2
-47.5°	2	2	1	1	1	1	1	1	1	1	1
-50°	2	1	1	1	1	1	1	1	1	1	1
-52.5°	1	1	1	1	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	1	1	1	1	1
-60°	1	1	1	2	1	1	1	1	1	1	1
-62.5°	1	1	2	2	2	1	1	1	1	1	1
-65°	1	1	2	2	2	2	1	1	1	1	1
-67.5°	1	2	2	2	2	2	1	1	1	1	1
-70°	2	2	2	2	2	2	2	2	1	1	1
-72.5°	2	2	2	2	2	2	2	2	2	1	1
-75°	2	2	2	2	2	2	2	2	2	2	1
-77.5°	2	2	2	2	2	2	2	2	2	2	1
-80°	2	2	2	2	2	2	2	2	2	2	1
-82.5°	2	2	2	2	2	2	2	2	2	2	1
-85°	2	2	2	2	2	2	2	2	2	2	1
-87.5°	1	1	1	1	1	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	3	2	2	1	1	1	0
85°	6	5	4	3	2	1	0
82.5°	7	6	5	3	2	1	0
80°	8	7	5	4	2	1	0
77.5°	9	7	6	4	2	1	0
75°	10	8	6	4	2	1	0
72.5°	11	9	6	4	2	1	0
70°	12	9	7	4	2	1	0
67.5°	12	10	7	5	2	1	0
65°	14	10	8	5	2	1	0
62.5°	15	11	8	5	2	1	0
60°	15	11	8	5	2	1	0
57.5°	16	11	8	5	2	1	0
55°	16	12	9	5	2	1	0
52.5°	16	12	9	5	2	1	0
50°	17	12	9	5	2	1	0
47.5°	17	14	9	6	2	1	0
45°	18	14	9	6	2	1	0
42.5°	18	14	10	6	2	1	0
40°	18	14	10	6	2	1	0
37.5°	18	14	10	6	2	1	0
35°	19	15	10	6	2	1	0
32.5°	19	15	10	6	2	1	0
30°	19	15	10	6	2	1	0
27.5°	19	15	10	6	2	1	0
25°	18	14	10	6	2	1	0
22.5°	18	14	10	6	2	1	0
20°	18	14	10	6	2	1	0
17.5°	18	14	10	6	2	1	0
15°	17	14	9	6	2	1	0
12.5°	17	14	9	6	2	1	0
10°	17	12	9	5	2	1	0
7.5°	16	12	9	5	2	1	0
5°	15	11	8	5	2	1	0
2.5°	15	11	8	5	2	1	0
0°	14	10	8	5	2	1	0
-2.5°	12	10	7	5	2	1	0
-5°	11	9	7	4	2	1	0
-7.5°	11	9	6	4	2	1	0
-10°	10	8	6	4	2	1	0
-12.5°	8	7	5	4	2	1	0
-15°	8	7	5	4	2	1	0
-17.5°	7	6	4	3	2	1	0
-20°	6	5	4	3	2	1	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	5	4	4	3	2	1	0
-25°	4	4	3	3	2	1	0
-27.5°	3	3	2	2	1	1	0
-30°	3	3	2	2	1	1	0
-32.5°	3	3	2	2	1	1	0
-35°	3	2	2	1	1	1	0
-37.5°	2	2	2	1	1	1	0
-40°	2	2	2	1	1	1	0
-42.5°	2	2	2	1	1	1	0
-45°	2	1	1	1	1	1	0
-47.5°	1	1	1	1	1	1	0
-50°	1	1	1	1	1	1	0
-52.5°	1	1	1	1	1	1	0
-55°	1	1	1	1	1	1	0
-57.5°	1	1	1	1	1	1	0
-60°	1	1	1	1	1	1	0
-62.5°	1	1	1	1	1	1	0
-65°	1	1	1	1	1	1	0
-67.5°	1	1	1	1	1	1	0
-70°	1	1	1	1	1	1	0
-72.5°	1	1	1	1	1	1	0
-75°	1	1	1	1	1	1	0
-77.5°	1	1	1	1	1	1	0
-80°	1	1	1	1	1	1	0
-82.5°	1	1	1	1	1	1	0
-85°	1	1	1	1	1	1	0
-87.5°	1	1	1	1	1	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)