

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P622225

Luminaire Tested: **IFLD-L-SA7D-740-U-66**

Issue Date: 09/20/2022

Test Information

Test Method: LM-79-2019
Report Number: P622225
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/20/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

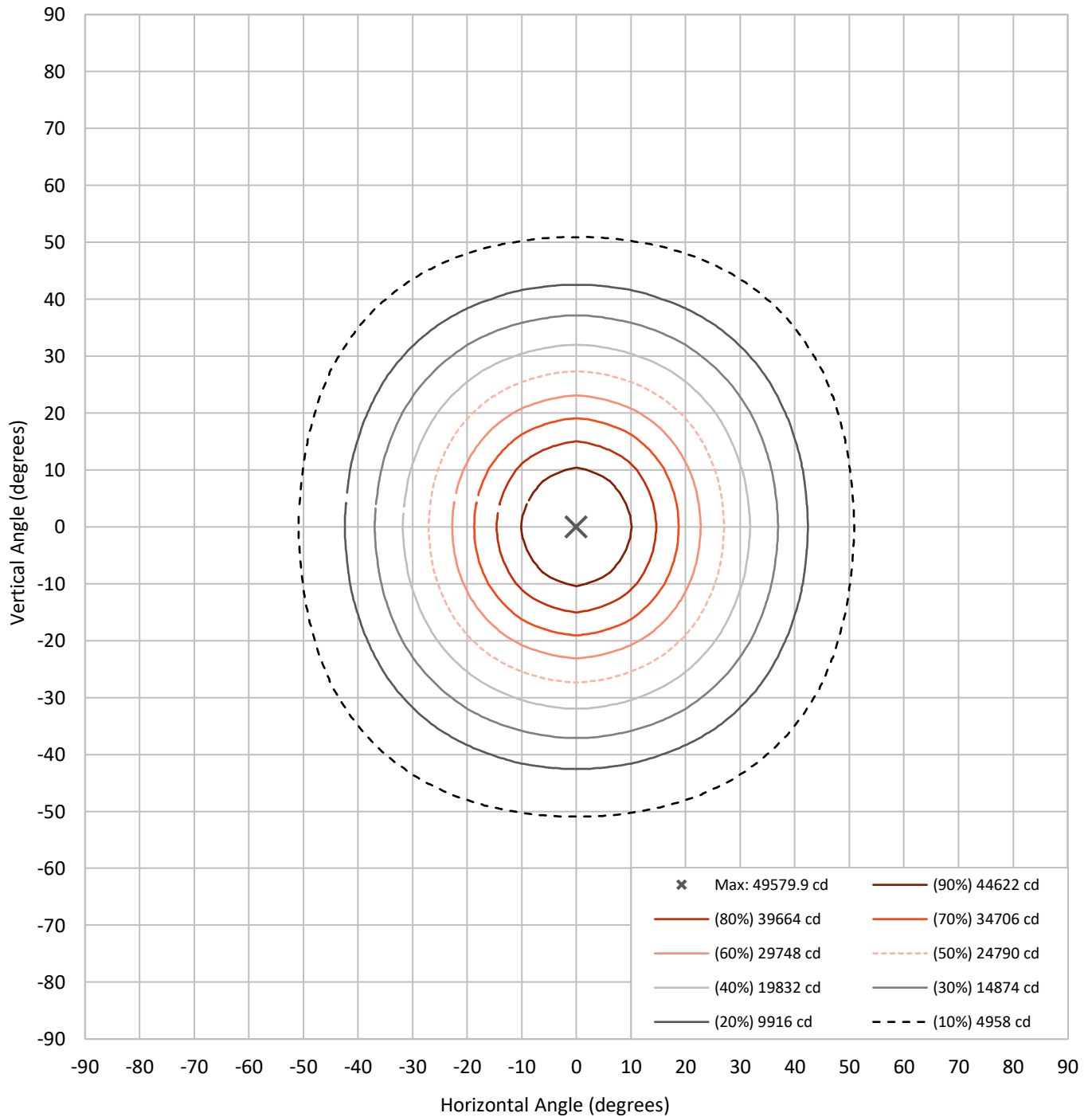
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	51422.5 lumens	Max Intensity:	49579.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	121.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	24724.1 lumens	Field Lumens:	45128.3 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%
Input Watts (W):	422.6		
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





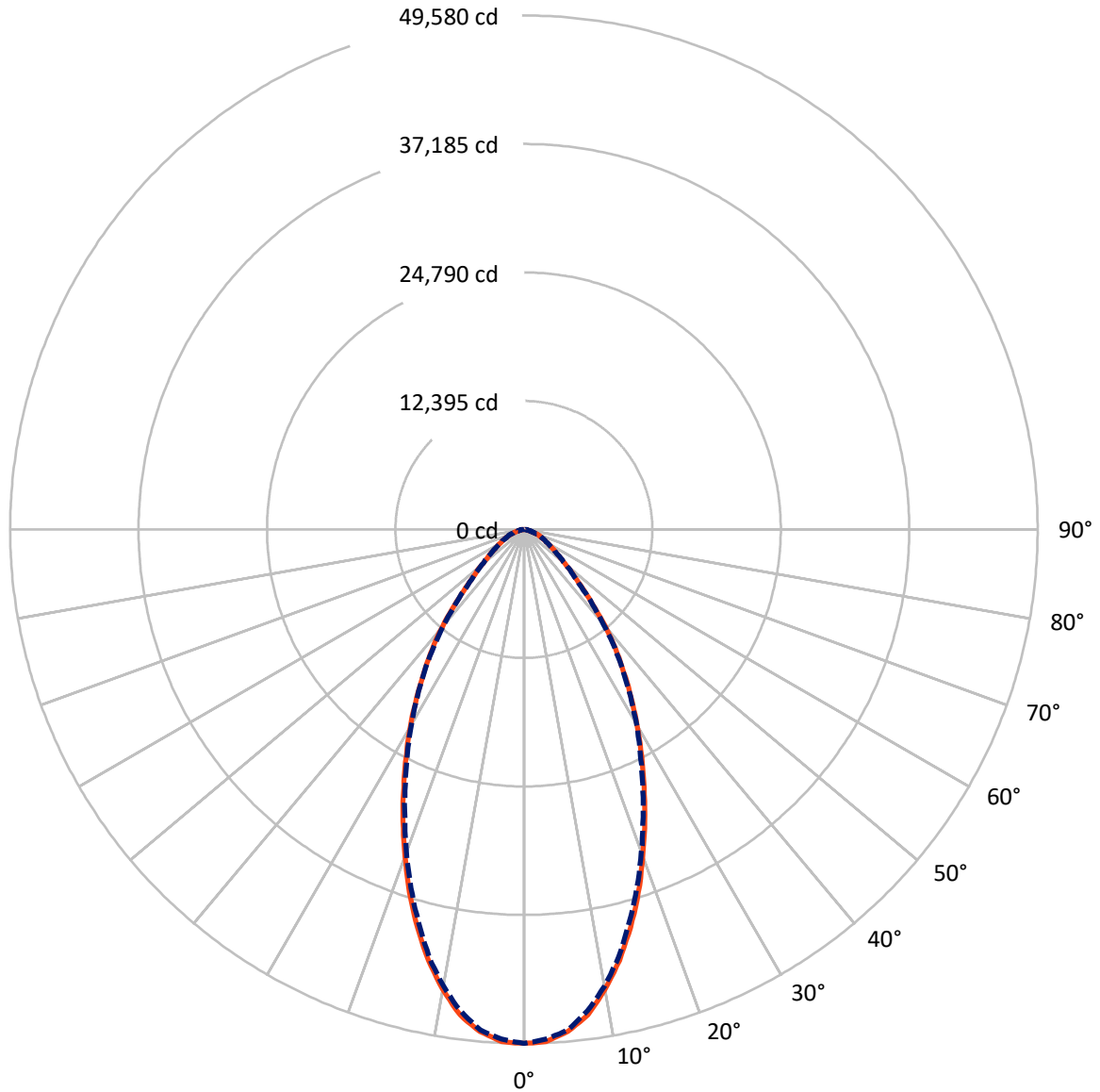
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Lumen Table

90	3.6	22.1	44.4	67.6	58.0	67.6	44.4	22.1	3.6							
80	3.6	22.1	44.4	67.6	58.0	67.6	44.4	22.1	3.6							
70	9.1	9.7	17.1	26.1	36.5	46.6	54.3	58.2	58.2	54.3	46.6	36.5	26.1	17.1	9.7	9.1
60		12.8	24.3	40.0	59.9	81.6	101.2	112.9	112.9	101.2	81.6	59.9	40.0	24.3	12.8	
50	12.1	16.0	32.6	58.9	97.7	149.8	206.2	244.6	244.6	206.2	149.8	97.7	58.9	32.6	16.0	12.1
40		19.0	42.1	84.7	162.6	287.5	418.1	499.4	499.4	418.1	287.5	162.6	84.7	42.1	19.0	
30	14.0	21.9	51.8	117.5	260.2	469.5	674.4	809.4	809.4	674.4	469.5	260.2	117.5	51.8	21.9	14.0
20		24.2	60.5	151.1	354.3	632.2	936.2	1156.0	1156.0	936.2	632.2	354.3	151.1	60.5	24.2	
10	14.7	25.4	65.7	173.3	409.1	733.3	1116.6	1403.5	1403.5	1116.6	733.3	409.1	173.3	65.7	25.4	14.7
0		25.4	65.7	173.3	409.1	733.3	1116.6	1403.5	1403.5	1116.6	733.3	409.1	173.3	65.7	25.4	
-10	14.0	24.2	60.5	151.1	354.3	632.2	936.2	1156.0	1156.0	936.2	632.2	354.3	151.1	60.5	24.2	14.0
-20		21.9	51.8	117.5	260.2	469.5	674.4	809.4	809.4	674.4	469.5	260.2	117.5	51.8	21.9	
-30	12.1	19.0	42.1	84.7	162.6	287.5	418.1	499.4	499.4	418.1	287.5	162.6	84.7	42.1	19.0	12.1
-40		16.0	32.6	58.9	97.7	149.8	206.2	244.6	244.6	206.2	149.8	97.7	58.9	32.6	16.0	
-50	9.1	12.8	24.3	40.0	59.9	81.6	101.2	112.9	112.9	101.2	81.6	59.9	40.0	24.3	12.8	9.1
-60		9.7	17.1	26.1	36.5	46.6	54.3	58.2	58.2	54.3	46.6	36.5	26.1	17.1	9.7	
-70	3.6	22.1	44.4	67.6	58.0	67.6	44.4	22.1	3.6							
-80		3.6	22.1	44.4	67.6	58.0	67.6	44.4	22.1	3.6						
-90	3.6	22.1	44.4	67.6	58.0	67.6	44.4	22.1	3.6							

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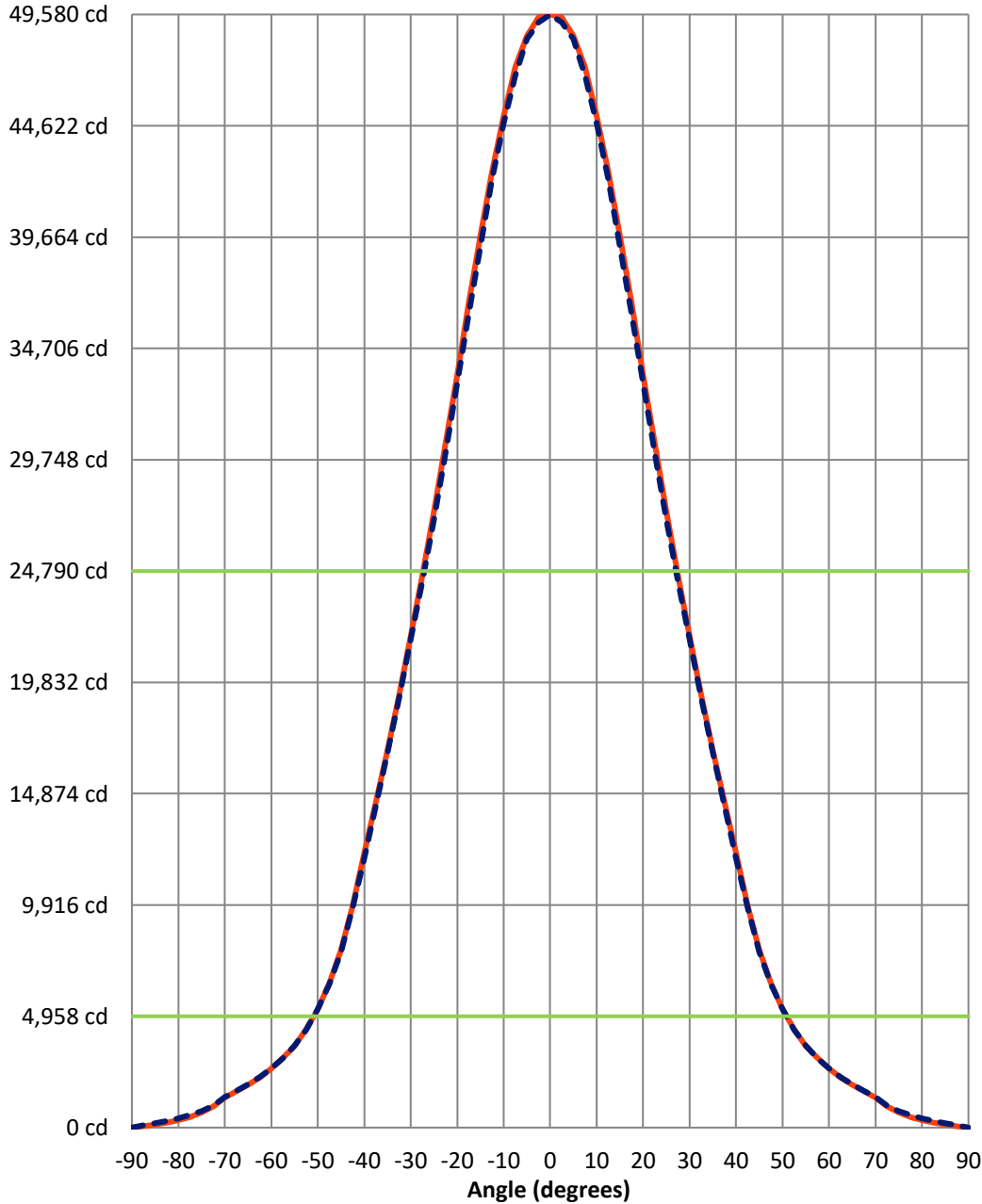
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
H Angle: 54.2°
V Angle: 54.7°
Lumens: 24724.1
Efficiency: 48.1%

Field:
H Angle: 101.7°
V Angle: 101.8°
Lumens: 45128.3
Efficiency: 87.8%

Spill:
Lumens: 6294.2
Efficiency: 12.2%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-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	5	11	21	32	42	53	63	69	74	85
85°	0	11	21	37	58	85	111	127	137	153	164
82.5°	0	16	37	58	90	122	164	185	206	227	243
80°	0	21	48	79	116	164	217	243	269	296	317
77.5°	0	26	58	95	148	201	264	301	333	365	396
75°	0	32	69	116	174	232	306	354	396	439	486
72.5°	0	37	79	132	196	264	349	407	454	512	576
70°	0	42	90	153	217	296	391	454	512	581	634
67.5°	0	48	100	164	238	322	423	502	565	629	687
65°	0	48	111	174	254	349	449	544	613	676	745
62.5°	0	53	122	185	269	370	476	581	655	724	803
60°	0	58	127	196	291	391	507	618	692	777	861
57.5°	0	63	132	206	301	407	528	650	740	829	919
55°	0	69	143	217	312	428	549	682	782	877	977
52.5°	0	69	148	222	328	444	571	703	824	930	1046
50°	0	74	153	227	338	460	586	729	866	983	1104
47.5°	0	79	159	232	343	470	608	756	914	1035	1168
45°	0	79	164	238	354	486	623	771	946	1088	1226
42.5°	0	85	164	243	359	497	639	798	972	1141	1289
40°	0	90	169	254	370	502	655	819	1004	1194	1347
37.5°	0	90	174	259	375	512	666	840	1035	1231	1400
35°	0	95	180	264	380	518	671	861	1062	1268	1458
32.5°	0	95	180	275	386	528	682	877	1094	1310	1511
30°	0	95	185	280	386	528	697	893	1120	1352	1564
27.5°	0	100	185	280	396	534	708	914	1146	1400	1617
25°	0	100	190	285	402	534	713	930	1178	1442	1664
22.5°	0	100	190	291	407	539	719	946	1210	1479	1717
20°	0	106	196	296	412	544	724	962	1242	1511	1759
17.5°	0	106	196	296	417	555	729	972	1268	1543	1796
15°	0	111	196	296	417	560	740	977	1294	1569	1833
12.5°	0	111	196	301	417	560	745	988	1321	1595	1860
10°	0	106	201	301	417	565	750	993	1337	1611	1886
7.5°	0	106	201	301	423	565	750	993	1352	1627	1902
5°	0	106	196	301	417	571	750	999	1374	1643	1918
2.5°	0	106	196	296	417	571	740	988	1368	1643	1928
0°	0	106	196	296	417	571	740	988	1368	1643	1928
-2.5°	0	106	196	296	417	571	740	988	1368	1643	1928
-5°	0	106	196	301	417	571	750	999	1374	1643	1918
-7.5°	0	106	201	301	423	565	750	993	1352	1627	1902
-10°	0	106	201	301	417	565	750	993	1337	1611	1886
-12.5°	0	111	196	301	417	560	745	988	1321	1595	1860
-15°	0	111	196	296	417	560	740	977	1294	1569	1833
-17.5°	0	106	196	296	417	555	729	972	1268	1543	1796
-20°	0	106	196	296	412	544	724	962	1242	1511	1759



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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	100	190	291	407	539	719	946	1210	1479	1717
-25°	0	100	190	285	402	534	713	930	1178	1442	1664
-27.5°	0	100	185	280	396	534	708	914	1146	1400	1617
-30°	0	95	185	280	386	528	697	893	1120	1352	1564
-32.5°	0	95	180	275	386	528	682	877	1094	1310	1511
-35°	0	95	180	264	380	518	671	861	1062	1268	1458
-37.5°	0	90	174	259	375	512	666	840	1035	1231	1400
-40°	0	90	169	254	370	502	655	819	1004	1194	1347
-42.5°	0	85	164	243	359	497	639	798	972	1141	1289
-45°	0	79	164	238	354	486	623	771	946	1088	1226
-47.5°	0	79	159	232	343	470	608	756	914	1035	1168
-50°	0	74	153	227	338	460	586	729	866	983	1104
-52.5°	0	69	148	222	328	444	571	703	824	930	1046
-55°	0	69	143	217	312	428	549	682	782	877	977
-57.5°	0	63	132	206	301	407	528	650	740	829	919
-60°	0	58	127	196	291	391	507	618	692	777	861
-62.5°	0	53	122	185	269	370	476	581	655	724	803
-65°	0	48	111	174	254	349	449	544	613	676	745
-67.5°	0	48	100	164	238	322	423	502	565	629	687
-70°	0	42	90	153	217	296	391	454	512	581	634
-72.5°	0	37	79	132	196	264	349	407	454	512	576
-75°	0	32	69	116	174	232	306	354	396	439	486
-77.5°	0	26	58	95	148	201	264	301	333	365	396
-80°	0	21	48	79	116	164	217	243	269	296	317
-82.5°	0	16	37	58	90	122	164	185	206	227	243
-85°	0	11	21	37	58	85	111	127	137	153	164
-87.5°	0	5	11	21	32	42	53	63	69	74	85
-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°	90	95	100	100	100	95	90	85	95	106	116
85°	174	190	196	206	201	190	185	174	196	217	243
82.5°	259	275	285	296	296	285	275	259	291	322	359
80°	338	359	380	396	396	380	365	343	380	428	476
77.5°	433	460	481	502	497	491	481	470	507	555	602
75°	528	565	581	602	613	608	608	618	660	719	771
72.5°	613	639	671	708	724	734	761	792	835	882	925
70°	682	713	756	792	824	856	893	935	977	1025	1067
67.5°	745	792	835	882	925	972	1020	1067	1115	1168	1220
65°	814	866	919	972	1030	1088	1146	1199	1257	1326	1384
62.5°	882	940	1004	1067	1136	1205	1273	1342	1421	1495	1569
60°	946	1020	1094	1173	1252	1331	1405	1495	1590	1675	1770
57.5°	1009	1099	1183	1273	1363	1453	1559	1659	1770	1881	1986
55°	1078	1183	1279	1379	1479	1595	1712	1838	1960	2103	2235
52.5°	1152	1263	1374	1485	1611	1738	1875	2023	2182	2346	2509
50°	1226	1347	1469	1601	1743	1891	2055	2229	2420	2610	2811
47.5°	1294	1426	1574	1717	1881	2055	2245	2457	2668	2906	3159
45°	1368	1511	1669	1844	2023	2229	2457	2689	2958	3228	3524
42.5°	1442	1595	1775	1960	2182	2414	2663	2958	3260	3592	3952
40°	1506	1680	1881	2103	2340	2599	2906	3228	3598	3994	4438
37.5°	1580	1770	1986	2229	2504	2805	3159	3534	3962	4443	4977
35°	1648	1860	2097	2362	2668	3017	3413	3851	4348	4929	5579
32.5°	1717	1949	2203	2494	2832	3228	3677	4195	4781	5447	6260
30°	1786	2029	2303	2620	3001	3450	3967	4543	5220	6060	7026
27.5°	1849	2113	2409	2758	3164	3656	4242	4929	5727	6672	7803
25°	1912	2187	2509	2885	3339	3878	4517	5272	6229	7349	8690
22.5°	1971	2261	2599	3006	3497	4094	4813	5674	6725	7972	9552
20°	2029	2335	2694	3122	3635	4290	5082	6044	7238	8706	10460
17.5°	2076	2404	2784	3244	3804	4491	5330	6413	7702	9382	11337
15°	2124	2462	2863	3349	3952	4691	5600	6736	8194	10022	12098
12.5°	2161	2509	2932	3444	4078	4860	5832	7063	8669	10624	12758
10°	2187	2552	2985	3518	4184	4998	6023	7327	9055	11115	13308
7.5°	2214	2583	3027	3577	4263	5103	6170	7533	9351	11496	13730
5°	2235	2610	3059	3619	4316	5183	6281	7666	9562	11765	14031
2.5°	2251	2631	3085	3656	4358	5267	6382	7808	9763	11992	14301
0°	2251	2636	3085	3656	4353	5283	6398	7819	9789	11987	14338
-2.5°	2251	2631	3085	3656	4358	5267	6382	7808	9763	11992	14301
-5°	2235	2610	3059	3619	4316	5183	6281	7666	9562	11765	14031
-7.5°	2214	2583	3027	3577	4263	5103	6170	7533	9351	11496	13730
-10°	2187	2552	2985	3518	4184	4998	6023	7327	9055	11115	13308
-12.5°	2161	2509	2932	3444	4078	4860	5832	7063	8669	10624	12758
-15°	2124	2462	2863	3349	3952	4691	5600	6736	8194	10022	12098
-17.5°	2076	2404	2784	3244	3804	4491	5330	6413	7702	9382	11337
-20°	2029	2335	2694	3122	3635	4290	5082	6044	7238	8706	10460



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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°	1971	2261	2599	3006	3497	4094	4813	5674	6725	7972	9552
-25°	1912	2187	2509	2885	3339	3878	4517	5272	6229	7349	8690
-27.5°	1849	2113	2409	2758	3164	3656	4242	4929	5727	6672	7803
-30°	1786	2029	2303	2620	3001	3450	3967	4543	5220	6060	7026
-32.5°	1717	1949	2203	2494	2832	3228	3677	4195	4781	5447	6260
-35°	1648	1860	2097	2362	2668	3017	3413	3851	4348	4929	5579
-37.5°	1580	1770	1986	2229	2504	2805	3159	3534	3962	4443	4977
-40°	1506	1680	1881	2103	2340	2599	2906	3228	3598	3994	4438
-42.5°	1442	1595	1775	1960	2182	2414	2663	2958	3260	3592	3952
-45°	1368	1511	1669	1844	2023	2229	2457	2689	2958	3228	3524
-47.5°	1294	1426	1574	1717	1881	2055	2245	2457	2668	2906	3159
-50°	1226	1347	1469	1601	1743	1891	2055	2229	2420	2610	2811
-52.5°	1152	1263	1374	1485	1611	1738	1875	2023	2182	2346	2509
-55°	1078	1183	1279	1379	1479	1595	1712	1838	1960	2103	2235
-57.5°	1009	1099	1183	1273	1363	1453	1559	1659	1770	1881	1986
-60°	946	1020	1094	1173	1252	1331	1405	1495	1590	1675	1770
-62.5°	882	940	1004	1067	1136	1205	1273	1342	1421	1495	1569
-65°	814	866	919	972	1030	1088	1146	1199	1257	1326	1384
-67.5°	745	792	835	882	925	972	1020	1067	1115	1168	1220
-70°	682	713	756	792	824	856	893	935	977	1025	1067
-72.5°	613	639	671	708	724	734	761	792	835	882	925
-75°	528	565	581	602	613	608	608	618	660	719	771
-77.5°	433	460	481	502	497	491	481	470	507	555	602
-80°	338	359	380	396	396	380	365	343	380	428	476
-82.5°	259	275	285	296	296	285	275	259	291	322	359
-85°	174	190	196	206	201	190	185	174	196	217	243
-87.5°	90	95	100	100	100	95	90	85	95	106	116
-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°	132	132	132	132	127	132	132	137	143	127	111
85°	264	269	269	269	269	269	269	269	269	243	217
82.5°	396	412	423	439	449	449	444	439	428	386	338
80°	523	549	565	581	597	592	586	576	571	518	465
77.5°	650	682	703	719	734	740	734	734	729	682	623
75°	814	840	861	882	903	914	919	919	919	877	824
72.5°	962	993	1025	1057	1083	1099	1115	1125	1136	1115	1083
70°	1115	1152	1189	1226	1263	1289	1310	1331	1342	1347	1347
67.5°	1273	1321	1368	1416	1458	1495	1522	1548	1569	1590	1601
65°	1448	1511	1569	1622	1669	1717	1754	1791	1823	1849	1865
62.5°	1643	1717	1786	1854	1907	1965	2023	2076	2118	2155	2182
60°	1860	1949	2034	2118	2203	2272	2346	2409	2462	2509	2552
57.5°	2103	2214	2319	2430	2525	2615	2705	2795	2874	2937	2990
55°	2372	2509	2647	2779	2911	3032	3149	3265	3371	3455	3529
52.5°	2684	2848	3022	3186	3365	3524	3672	3830	3973	4100	4205
50°	3017	3228	3455	3666	3899	4121	4321	4522	4723	4897	5040
47.5°	3408	3661	3957	4247	4533	4834	5114	5378	5653	5885	6081
45°	3830	4184	4533	4924	5283	5690	6075	6461	6799	7137	7423
42.5°	4332	4776	5220	5721	6213	6725	7269	7755	8262	8759	9171
40°	4929	5452	6065	6667	7349	7993	8764	9446	10090	10719	11253
37.5°	5584	6276	7032	7798	8722	9631	10534	11390	12156	12859	13419
35°	6340	7211	8109	9224	10323	11432	12468	13440	14311	15025	15616
32.5°	7206	8236	9478	10772	12045	13276	14512	15474	16382	17196	17893
30°	8125	9467	10914	12362	13751	15088	16335	17492	18548	19462	20244
27.5°	9203	10756	12367	13920	15410	16852	18268	19589	20746	21707	22679
25°	10270	12050	13773	15416	17027	18638	20197	21681	23033	24212	25263
22.5°	11395	13255	15072	16815	18643	20397	22104	23794	25347	26705	27888
20°	12436	14433	16287	18231	20212	22114	24032	25860	27593	29230	30577
17.5°	13366	15400	17423	19473	21633	23789	25870	27851	29827	31734	33414
15°	14195	16329	18406	20640	22970	25289	27608	29790	32014	34127	36008
12.5°	14929	17132	19341	21718	24153	26568	29109	31645	34112	36389	38428
10°	15537	17825	20191	22653	25184	27735	30472	33288	35929	38349	40567
7.5°	15997	18348	20820	23377	26045	28776	31634	34503	37297	39896	42221
5°	16324	18696	21237	23847	26626	29479	32527	35586	38438	41127	43505
2.5°	16620	19008	21596	24106	26937	29896	32949	36119	39035	41798	44445
0°	16699	19135	21750	24328	27080	30049	33161	36256	39247	42247	44736
-2.5°	16620	19008	21596	24106	26937	29896	32949	36119	39035	41798	44445
-5°	16324	18696	21237	23847	26626	29479	32527	35586	38438	41127	43505
-7.5°	15997	18348	20820	23377	26045	28776	31634	34503	37297	39896	42221
-10°	15537	17825	20191	22653	25184	27735	30472	33288	35929	38349	40567
-12.5°	14929	17132	19341	21718	24153	26568	29109	31645	34112	36389	38428
-15°	14195	16329	18406	20640	22970	25289	27608	29790	32014	34127	36008
-17.5°	13366	15400	17423	19473	21633	23789	25870	27851	29827	31734	33414
-20°	12436	14433	16287	18231	20212	22114	24032	25860	27593	29230	30577



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 CATALOG NUMBER: IFLD-L-SA7D-740-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11395	13255	15072	16815	18643	20397	22104	23794	25347	26705	27888
-25°	10270	12050	13773	15416	17027	18638	20197	21681	23033	24212	25263
-27.5°	9203	10756	12367	13920	15410	16852	18268	19589	20746	21707	22679
-30°	8125	9467	10914	12362	13751	15088	16335	17492	18548	19462	20244
-32.5°	7206	8236	9478	10772	12045	13276	14512	15474	16382	17196	17893
-35°	6340	7211	8109	9224	10323	11432	12468	13440	14311	15025	15616
-37.5°	5584	6276	7032	7798	8722	9631	10534	11390	12156	12859	13419
-40°	4929	5452	6065	6667	7349	7993	8764	9446	10090	10719	11253
-42.5°	4332	4776	5220	5721	6213	6725	7269	7755	8262	8759	9171
-45°	3830	4184	4533	4924	5283	5690	6075	6461	6799	7137	7423
-47.5°	3408	3661	3957	4247	4533	4834	5114	5378	5653	5885	6081
-50°	3017	3228	3455	3666	3899	4121	4321	4522	4723	4897	5040
-52.5°	2684	2848	3022	3186	3365	3524	3672	3830	3973	4100	4205
-55°	2372	2509	2647	2779	2911	3032	3149	3265	3371	3455	3529
-57.5°	2103	2214	2319	2430	2525	2615	2705	2795	2874	2937	2990
-60°	1860	1949	2034	2118	2203	2272	2346	2409	2462	2509	2552
-62.5°	1643	1717	1786	1854	1907	1965	2023	2076	2118	2155	2182
-65°	1448	1511	1569	1622	1669	1717	1754	1791	1823	1849	1865
-67.5°	1273	1321	1368	1416	1458	1495	1522	1548	1569	1590	1601
-70°	1115	1152	1189	1226	1263	1289	1310	1331	1342	1347	1347
-72.5°	962	993	1025	1057	1083	1099	1115	1125	1136	1115	1083
-75°	814	840	861	882	903	914	919	919	919	877	824
-77.5°	650	682	703	719	734	740	734	734	729	682	623
-80°	523	549	565	581	597	592	586	576	571	518	465
-82.5°	396	412	423	439	449	449	444	439	428	386	338
-85°	264	269	269	269	269	269	269	269	269	243	217
-87.5°	132	132	132	132	127	132	132	137	143	127	111
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	90	74	69	58	69	74	90	111	127	143	137
85°	185	153	148	137	148	153	185	217	243	269	269
82.5°	296	243	232	222	232	243	296	338	386	428	439
80°	417	354	343	333	343	354	417	465	518	571	576
77.5°	565	507	486	470	486	507	565	623	682	729	734
75°	766	708	692	676	692	708	766	824	877	919	919
72.5°	1046	1020	977	940	977	1020	1046	1083	1115	1136	1125
70°	1352	1363	1352	1337	1352	1363	1352	1347	1347	1342	1331
67.5°	1606	1617	1617	1622	1617	1617	1606	1601	1590	1569	1548
65°	1881	1886	1902	1907	1902	1886	1881	1865	1849	1823	1791
62.5°	2198	2214	2224	2224	2224	2214	2198	2182	2155	2118	2076
60°	2578	2599	2626	2631	2626	2599	2578	2552	2509	2462	2409
57.5°	3032	3059	3096	3106	3096	3059	3032	2990	2937	2874	2795
55°	3582	3619	3640	3629	3640	3619	3582	3529	3455	3371	3265
52.5°	4295	4358	4401	4380	4401	4358	4295	4205	4100	3973	3830
50°	5156	5235	5288	5272	5288	5235	5156	5040	4897	4723	4522
47.5°	6234	6345	6435	6440	6435	6345	6234	6081	5885	5653	5378
45°	7650	7813	7935	7914	7935	7813	7650	7423	7137	6799	6461
42.5°	9488	9715	9895	9879	9895	9715	9488	9171	8759	8262	7755
40°	11649	11929	12167	12230	12167	11929	11649	11253	10719	10090	9446
37.5°	13873	14232	14533	14502	14533	14232	13873	13419	12859	12156	11390
35°	16108	16483	16778	16805	16778	16483	16108	15616	15025	14311	13440
32.5°	18448	18865	19214	19261	19214	18865	18448	17893	17196	16382	15474
30°	20889	21390	21808	21892	21808	21390	20889	20244	19462	18548	17492
27.5°	23456	24053	24449	24602	24449	24053	23456	22679	21707	20746	19589
25°	26103	26753	27196	27445	27196	26753	26103	25263	24212	23033	21681
22.5°	28866	29637	30213	30488	30213	29637	28866	27888	26705	25347	23794
20°	31718	32558	33229	33515	33229	32558	31718	30577	29230	27593	25860
17.5°	34624	35649	36394	36758	36394	35649	34624	33414	31734	29827	27851
15°	37445	38533	39342	39733	39342	38533	37445	36008	34127	32014	29790
12.5°	40060	41212	42020	42585	42020	41212	40060	38428	36389	34112	31645
10°	42395	43653	44471	45058	44471	43653	42395	40567	38349	35929	33288
7.5°	44144	45734	46659	47234	46659	45734	44144	42221	39896	37297	34503
5°	45486	47240	48080	48624	48080	47240	45486	43505	41127	38438	35586
2.5°	46468	47852	48904	49448	48904	47852	46468	44445	41798	39035	36119
0°	46854	48481	49226	49580	49226	48481	46854	44736	42247	39247	36256
-2.5°	46468	47852	48904	49448	48904	47852	46468	44445	41798	39035	36119
-5°	45486	47240	48080	48624	48080	47240	45486	43505	41127	38438	35586
-7.5°	44144	45734	46659	47234	46659	45734	44144	42221	39896	37297	34503
-10°	42395	43653	44471	45058	44471	43653	42395	40567	38349	35929	33288
-12.5°	40060	41212	42020	42585	42020	41212	40060	38428	36389	34112	31645
-15°	37445	38533	39342	39733	39342	38533	37445	36008	34127	32014	29790
-17.5°	34624	35649	36394	36758	36394	35649	34624	33414	31734	29827	27851
-20°	31718	32558	33229	33515	33229	32558	31718	30577	29230	27593	25860



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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°	28866	29637	30213	30488	30213	29637	28866	27888	26705	25347	23794
-25°	26103	26753	27196	27445	27196	26753	26103	25263	24212	23033	21681
-27.5°	23456	24053	24449	24602	24449	24053	23456	22679	21707	20746	19589
-30°	20889	21390	21808	21892	21808	21390	20889	20244	19462	18548	17492
-32.5°	18448	18865	19214	19261	19214	18865	18448	17893	17196	16382	15474
-35°	16108	16483	16778	16805	16778	16483	16108	15616	15025	14311	13440
-37.5°	13873	14232	14533	14502	14533	14232	13873	13419	12859	12156	11390
-40°	11649	11929	12167	12230	12167	11929	11649	11253	10719	10090	9446
-42.5°	9488	9715	9895	9879	9895	9715	9488	9171	8759	8262	7755
-45°	7650	7813	7935	7914	7935	7813	7650	7423	7137	6799	6461
-47.5°	6234	6345	6435	6440	6435	6345	6234	6081	5885	5653	5378
-50°	5156	5235	5288	5272	5288	5235	5156	5040	4897	4723	4522
-52.5°	4295	4358	4401	4380	4401	4358	4295	4205	4100	3973	3830
-55°	3582	3619	3640	3629	3640	3619	3582	3529	3455	3371	3265
-57.5°	3032	3059	3096	3106	3096	3059	3032	2990	2937	2874	2795
-60°	2578	2599	2626	2631	2626	2599	2578	2552	2509	2462	2409
-62.5°	2198	2214	2224	2224	2224	2214	2198	2182	2155	2118	2076
-65°	1881	1886	1902	1907	1902	1886	1881	1865	1849	1823	1791
-67.5°	1606	1617	1617	1622	1617	1617	1606	1601	1590	1569	1548
-70°	1352	1363	1352	1337	1352	1363	1352	1347	1347	1342	1331
-72.5°	1046	1020	977	940	977	1020	1046	1083	1115	1136	1125
-75°	766	708	692	676	692	708	766	824	877	919	919
-77.5°	565	507	486	470	486	507	565	623	682	729	734
-80°	417	354	343	333	343	354	417	465	518	571	576
-82.5°	296	243	232	222	232	243	296	338	386	428	439
-85°	185	153	148	137	148	153	185	217	243	269	269
-87.5°	90	74	69	58	69	74	90	111	127	143	137
-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°	132	132	127	132	132	132	132	116	106	95	85
85°	269	269	269	269	269	269	264	243	217	196	174
82.5°	444	449	449	439	423	412	396	359	322	291	259
80°	586	592	597	581	565	549	523	476	428	380	343
77.5°	734	740	734	719	703	682	650	602	555	507	470
75°	919	914	903	882	861	840	814	771	719	660	618
72.5°	1115	1099	1083	1057	1025	993	962	925	882	835	792
70°	1310	1289	1263	1226	1189	1152	1115	1067	1025	977	935
67.5°	1522	1495	1458	1416	1368	1321	1273	1220	1168	1115	1067
65°	1754	1717	1669	1622	1569	1511	1448	1384	1326	1257	1199
62.5°	2023	1965	1907	1854	1786	1717	1643	1569	1495	1421	1342
60°	2346	2272	2203	2118	2034	1949	1860	1770	1675	1590	1495
57.5°	2705	2615	2525	2430	2319	2214	2103	1986	1881	1770	1659
55°	3149	3032	2911	2779	2647	2509	2372	2235	2103	1960	1838
52.5°	3672	3524	3365	3186	3022	2848	2684	2509	2346	2182	2023
50°	4321	4121	3899	3666	3455	3228	3017	2811	2610	2420	2229
47.5°	5114	4834	4533	4247	3957	3661	3408	3159	2906	2668	2457
45°	6075	5690	5283	4924	4533	4184	3830	3524	3228	2958	2689
42.5°	7269	6725	6213	5721	5220	4776	4332	3952	3592	3260	2958
40°	8764	7993	7349	6667	6065	5452	4929	4438	3994	3598	3228
37.5°	10534	9631	8722	7798	7032	6276	5584	4977	4443	3962	3534
35°	12468	11432	10323	9224	8109	7211	6340	5579	4929	4348	3851
32.5°	14512	13276	12045	10772	9478	8236	7206	6260	5447	4781	4195
30°	16335	15088	13751	12362	10914	9467	8125	7026	6060	5220	4543
27.5°	18268	16852	15410	13920	12367	10756	9203	7803	6672	5727	4929
25°	20197	18638	17027	15416	13773	12050	10270	8690	7349	6229	5272
22.5°	22104	20397	18643	16815	15072	13255	11395	9552	7972	6725	5674
20°	24032	22114	20212	18231	16287	14433	12436	10460	8706	7238	6044
17.5°	25870	23789	21633	19473	17423	15400	13366	11337	9382	7702	6413
15°	27608	25289	22970	20640	18406	16329	14195	12098	10022	8194	6736
12.5°	29109	26568	24153	21718	19341	17132	14929	12758	10624	8669	7063
10°	30472	27735	25184	22653	20191	17825	15537	13308	11115	9055	7327
7.5°	31634	28776	26045	23377	20820	18348	15997	13730	11496	9351	7533
5°	32527	29479	26626	23847	21237	18696	16324	14031	11765	9562	7666
2.5°	32949	29896	26937	24106	21596	19008	16620	14301	11992	9763	7808
0°	33161	30049	27080	24328	21750	19135	16699	14338	11987	9789	7819
-2.5°	32949	29896	26937	24106	21596	19008	16620	14301	11992	9763	7808
-5°	32527	29479	26626	23847	21237	18696	16324	14031	11765	9562	7666
-7.5°	31634	28776	26045	23377	20820	18348	15997	13730	11496	9351	7533
-10°	30472	27735	25184	22653	20191	17825	15537	13308	11115	9055	7327
-12.5°	29109	26568	24153	21718	19341	17132	14929	12758	10624	8669	7063
-15°	27608	25289	22970	20640	18406	16329	14195	12098	10022	8194	6736
-17.5°	25870	23789	21633	19473	17423	15400	13366	11337	9382	7702	6413
-20°	24032	22114	20212	18231	16287	14433	12436	10460	8706	7238	6044



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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°	22104	20397	18643	16815	15072	13255	11395	9552	7972	6725	5674
-25°	20197	18638	17027	15416	13773	12050	10270	8690	7349	6229	5272
-27.5°	18268	16852	15410	13920	12367	10756	9203	7803	6672	5727	4929
-30°	16335	15088	13751	12362	10914	9467	8125	7026	6060	5220	4543
-32.5°	14512	13276	12045	10772	9478	8236	7206	6260	5447	4781	4195
-35°	12468	11432	10323	9224	8109	7211	6340	5579	4929	4348	3851
-37.5°	10534	9631	8722	7798	7032	6276	5584	4977	4443	3962	3534
-40°	8764	7993	7349	6667	6065	5452	4929	4438	3994	3598	3228
-42.5°	7269	6725	6213	5721	5220	4776	4332	3952	3592	3260	2958
-45°	6075	5690	5283	4924	4533	4184	3830	3524	3228	2958	2689
-47.5°	5114	4834	4533	4247	3957	3661	3408	3159	2906	2668	2457
-50°	4321	4121	3899	3666	3455	3228	3017	2811	2610	2420	2229
-52.5°	3672	3524	3365	3186	3022	2848	2684	2509	2346	2182	2023
-55°	3149	3032	2911	2779	2647	2509	2372	2235	2103	1960	1838
-57.5°	2705	2615	2525	2430	2319	2214	2103	1986	1881	1770	1659
-60°	2346	2272	2203	2118	2034	1949	1860	1770	1675	1590	1495
-62.5°	2023	1965	1907	1854	1786	1717	1643	1569	1495	1421	1342
-65°	1754	1717	1669	1622	1569	1511	1448	1384	1326	1257	1199
-67.5°	1522	1495	1458	1416	1368	1321	1273	1220	1168	1115	1067
-70°	1310	1289	1263	1226	1189	1152	1115	1067	1025	977	935
-72.5°	1115	1099	1083	1057	1025	993	962	925	882	835	792
-75°	919	914	903	882	861	840	814	771	719	660	618
-77.5°	734	740	734	719	703	682	650	602	555	507	470
-80°	586	592	597	581	565	549	523	476	428	380	343
-82.5°	444	449	449	439	423	412	396	359	322	291	259
-85°	269	269	269	269	269	269	264	243	217	196	174
-87.5°	132	132	127	132	132	132	132	116	106	95	85
-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°	90	95	100	100	100	95	90	85	74	69	63
85°	185	190	201	206	196	190	174	164	153	137	127
82.5°	275	285	296	296	285	275	259	243	227	206	185
80°	365	380	396	396	380	359	338	317	296	269	243
77.5°	481	491	497	502	481	460	433	396	365	333	301
75°	608	608	613	602	581	565	528	486	439	396	354
72.5°	761	734	724	708	671	639	613	576	512	454	407
70°	893	856	824	792	756	713	682	634	581	512	454
67.5°	1020	972	925	882	835	792	745	687	629	565	502
65°	1146	1088	1030	972	919	866	814	745	676	613	544
62.5°	1273	1205	1136	1067	1004	940	882	803	724	655	581
60°	1405	1331	1252	1173	1094	1020	946	861	777	692	618
57.5°	1559	1453	1363	1273	1183	1099	1009	919	829	740	650
55°	1712	1595	1479	1379	1279	1183	1078	977	877	782	682
52.5°	1875	1738	1611	1485	1374	1263	1152	1046	930	824	703
50°	2055	1891	1743	1601	1469	1347	1226	1104	983	866	729
47.5°	2245	2055	1881	1717	1574	1426	1294	1168	1035	914	756
45°	2457	2229	2023	1844	1669	1511	1368	1226	1088	946	771
42.5°	2663	2414	2182	1960	1775	1595	1442	1289	1141	972	798
40°	2906	2599	2340	2103	1881	1680	1506	1347	1194	1004	819
37.5°	3159	2805	2504	2229	1986	1770	1580	1400	1231	1035	840
35°	3413	3017	2668	2362	2097	1860	1648	1458	1268	1062	861
32.5°	3677	3228	2832	2494	2203	1949	1717	1511	1310	1094	877
30°	3967	3450	3001	2620	2303	2029	1786	1564	1352	1120	893
27.5°	4242	3656	3164	2758	2409	2113	1849	1617	1400	1146	914
25°	4517	3878	3339	2885	2509	2187	1912	1664	1442	1178	930
22.5°	4813	4094	3497	3006	2599	2261	1971	1717	1479	1210	946
20°	5082	4290	3635	3122	2694	2335	2029	1759	1511	1242	962
17.5°	5330	4491	3804	3244	2784	2404	2076	1796	1543	1268	972
15°	5600	4691	3952	3349	2863	2462	2124	1833	1569	1294	977
12.5°	5832	4860	4078	3444	2932	2509	2161	1860	1595	1321	988
10°	6023	4998	4184	3518	2985	2552	2187	1886	1611	1337	993
7.5°	6170	5103	4263	3577	3027	2583	2214	1902	1627	1352	993
5°	6281	5183	4316	3619	3059	2610	2235	1918	1643	1374	999
2.5°	6382	5267	4358	3656	3085	2631	2251	1928	1643	1368	988
0°	6398	5283	4353	3656	3085	2636	2251	1928	1638	1363	977
-2.5°	6382	5267	4358	3656	3085	2631	2251	1928	1643	1368	988
-5°	6281	5183	4316	3619	3059	2610	2235	1918	1643	1374	999
-7.5°	6170	5103	4263	3577	3027	2583	2214	1902	1627	1352	993
-10°	6023	4998	4184	3518	2985	2552	2187	1886	1611	1337	993
-12.5°	5832	4860	4078	3444	2932	2509	2161	1860	1595	1321	988
-15°	5600	4691	3952	3349	2863	2462	2124	1833	1569	1294	977
-17.5°	5330	4491	3804	3244	2784	2404	2076	1796	1543	1268	972
-20°	5082	4290	3635	3122	2694	2335	2029	1759	1511	1242	962



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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°	4813	4094	3497	3006	2599	2261	1971	1717	1479	1210	946
-25°	4517	3878	3339	2885	2509	2187	1912	1664	1442	1178	930
-27.5°	4242	3656	3164	2758	2409	2113	1849	1617	1400	1146	914
-30°	3967	3450	3001	2620	2303	2029	1786	1564	1352	1120	893
-32.5°	3677	3228	2832	2494	2203	1949	1717	1511	1310	1094	877
-35°	3413	3017	2668	2362	2097	1860	1648	1458	1268	1062	861
-37.5°	3159	2805	2504	2229	1986	1770	1580	1400	1231	1035	840
-40°	2906	2599	2340	2103	1881	1680	1506	1347	1194	1004	819
-42.5°	2663	2414	2182	1960	1775	1595	1442	1289	1141	972	798
-45°	2457	2229	2023	1844	1669	1511	1368	1226	1088	946	771
-47.5°	2245	2055	1881	1717	1574	1426	1294	1168	1035	914	756
-50°	2055	1891	1743	1601	1469	1347	1226	1104	983	866	729
-52.5°	1875	1738	1611	1485	1374	1263	1152	1046	930	824	703
-55°	1712	1595	1479	1379	1279	1183	1078	977	877	782	682
-57.5°	1559	1453	1363	1273	1183	1099	1009	919	829	740	650
-60°	1405	1331	1252	1173	1094	1020	946	861	777	692	618
-62.5°	1273	1205	1136	1067	1004	940	882	803	724	655	581
-65°	1146	1088	1030	972	919	866	814	745	676	613	544
-67.5°	1020	972	925	882	835	792	745	687	629	565	502
-70°	893	856	824	792	756	713	682	634	581	512	454
-72.5°	761	734	724	708	671	639	613	576	512	454	407
-75°	608	608	613	602	581	565	528	486	439	396	354
-77.5°	481	491	497	502	481	460	433	396	365	333	301
-80°	365	380	396	396	380	359	338	317	296	269	243
-82.5°	275	285	296	296	285	275	259	243	227	206	185
-85°	185	190	201	206	196	190	174	164	153	137	127
-87.5°	90	95	100	100	100	95	90	85	74	69	63
-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°	53	42	32	21	11	5	0
85°	111	85	58	37	21	11	0
82.5°	164	122	90	58	37	16	0
80°	217	164	116	79	48	21	0
77.5°	264	201	148	95	58	26	0
75°	306	232	174	116	69	32	0
72.5°	349	264	196	132	79	37	0
70°	391	296	217	153	90	42	0
67.5°	423	322	238	164	100	48	0
65°	449	349	254	174	111	48	0
62.5°	476	370	269	185	122	53	0
60°	507	391	291	196	127	58	0
57.5°	528	407	301	206	132	63	0
55°	549	428	312	217	143	69	0
52.5°	571	444	328	222	148	69	0
50°	586	460	338	227	153	74	0
47.5°	608	470	343	232	159	79	0
45°	623	486	354	238	164	79	0
42.5°	639	497	359	243	164	85	0
40°	655	502	370	254	169	90	0
37.5°	666	512	375	259	174	90	0
35°	671	518	380	264	180	95	0
32.5°	682	528	386	275	180	95	0
30°	697	528	386	280	185	95	0
27.5°	708	534	396	280	185	100	0
25°	713	534	402	285	190	100	0
22.5°	719	539	407	291	190	100	0
20°	724	544	412	296	196	106	0
17.5°	729	555	417	296	196	106	0
15°	740	560	417	296	196	111	0
12.5°	745	560	417	301	196	111	0
10°	750	565	417	301	201	106	0
7.5°	750	565	423	301	201	106	0
5°	750	571	417	301	196	106	0
2.5°	740	571	417	296	196	106	0
0°	734	565	412	296	196	106	0
-2.5°	740	571	417	296	196	106	0
-5°	750	571	417	301	196	106	0
-7.5°	750	565	423	301	201	106	0
-10°	750	565	417	301	201	106	0
-12.5°	745	560	417	301	196	111	0
-15°	740	560	417	296	196	111	0
-17.5°	729	555	417	296	196	106	0
-20°	724	544	412	296	196	106	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	719	539	407	291	190	100	0
-25°	713	534	402	285	190	100	0
-27.5°	708	534	396	280	185	100	0
-30°	697	528	386	280	185	95	0
-32.5°	682	528	386	275	180	95	0
-35°	671	518	380	264	180	95	0
-37.5°	666	512	375	259	174	90	0
-40°	655	502	370	254	169	90	0
-42.5°	639	497	359	243	164	85	0
-45°	623	486	354	238	164	79	0
-47.5°	608	470	343	232	159	79	0
-50°	586	460	338	227	153	74	0
-52.5°	571	444	328	222	148	69	0
-55°	549	428	312	217	143	69	0
-57.5°	528	407	301	206	132	63	0
-60°	507	391	291	196	127	58	0
-62.5°	476	370	269	185	122	53	0
-65°	449	349	254	174	111	48	0
-67.5°	423	322	238	164	100	48	0
-70°	391	296	217	153	90	42	0
-72.5°	349	264	196	132	79	37	0
-75°	306	232	174	116	69	32	0
-77.5°	264	201	148	95	58	26	0
-80°	217	164	116	79	48	21	0
-82.5°	164	122	90	58	37	16	0
-85°	111	85	58	37	21	11	0
-87.5°	53	42	32	21	11	5	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)