

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: P622195

Luminaire Tested: **IFLD-L-SA7C-735-U-66**

Issue Date: 09/20/2022

Test Information

Test Method: LM-79-2019
Report Number: P622195
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/20/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

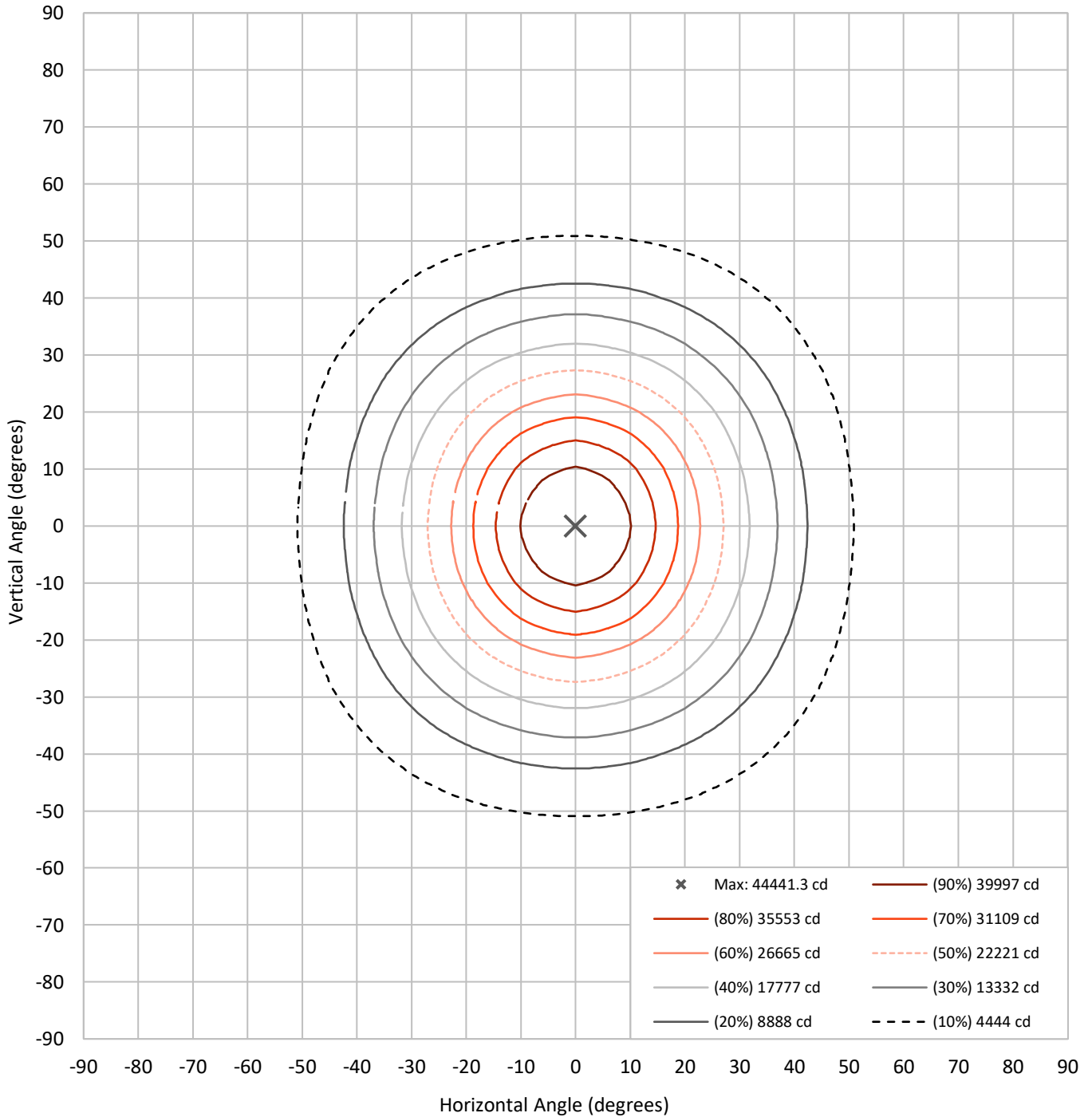
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	46093 lumens	Max Intensity:	44441.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	124.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	22161.6 lumens	Field Lumens:	40451.1 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%

Input Watts (W): 369
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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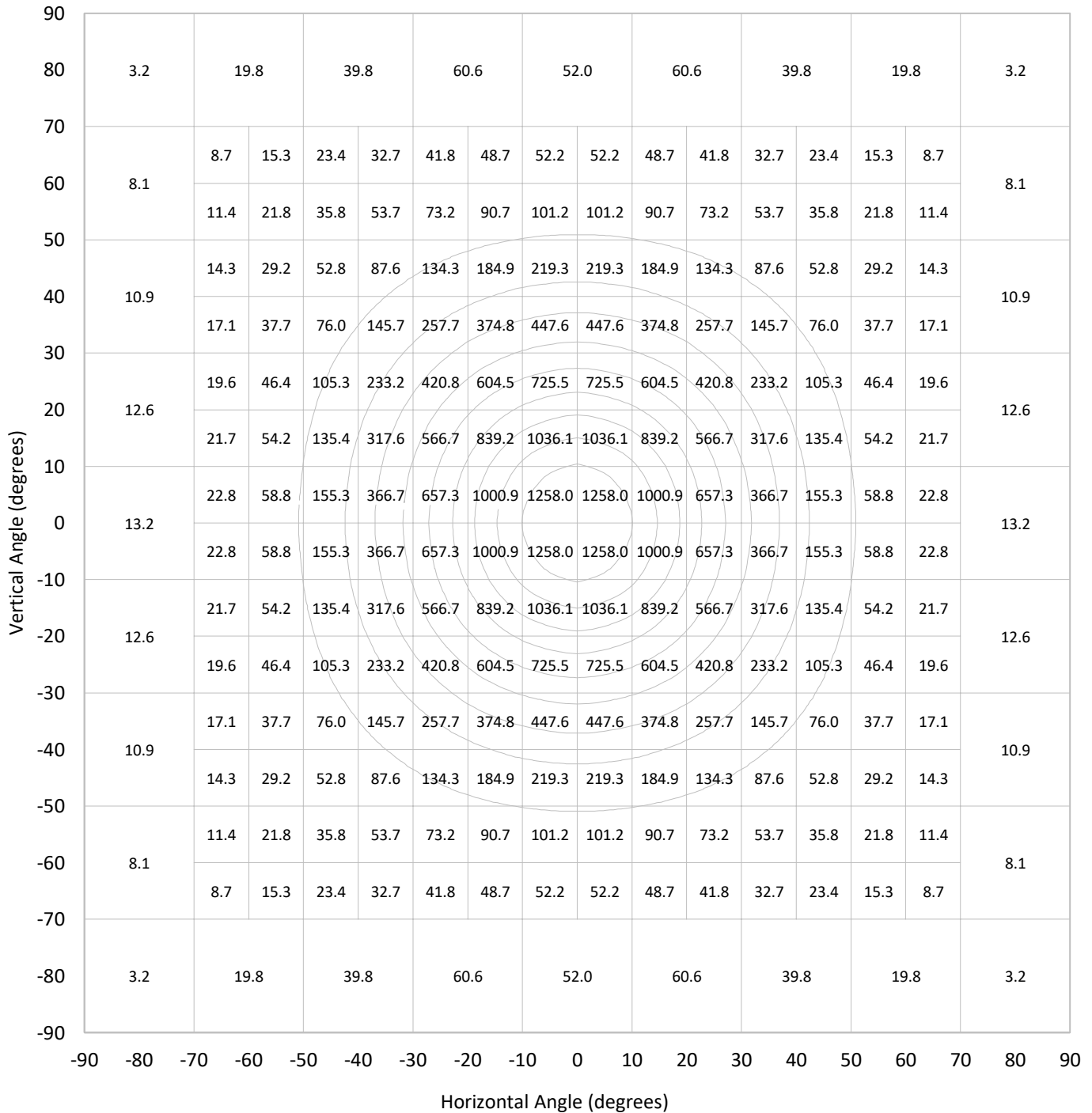
Iso-Candela Plot





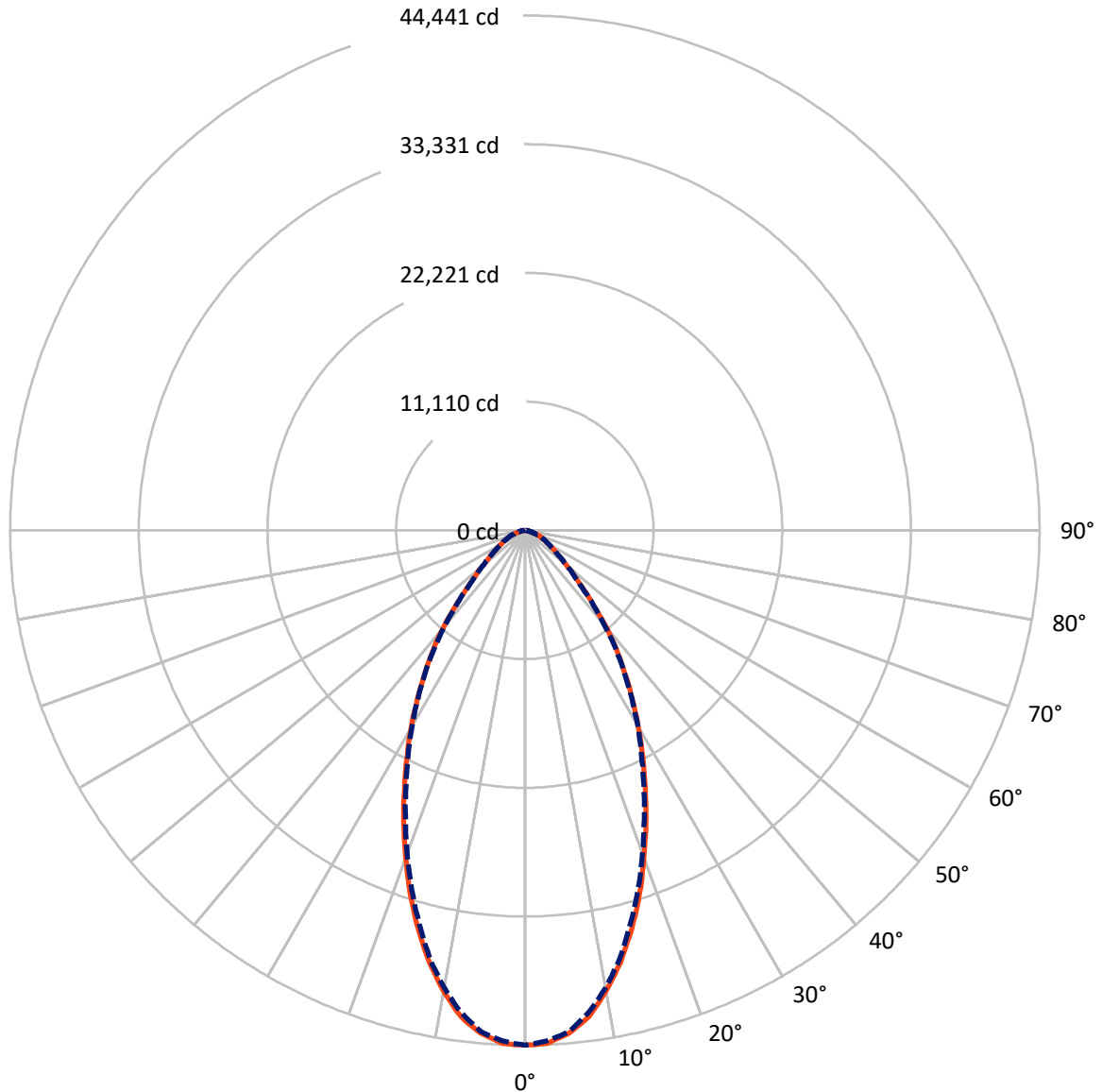
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Lumen Table



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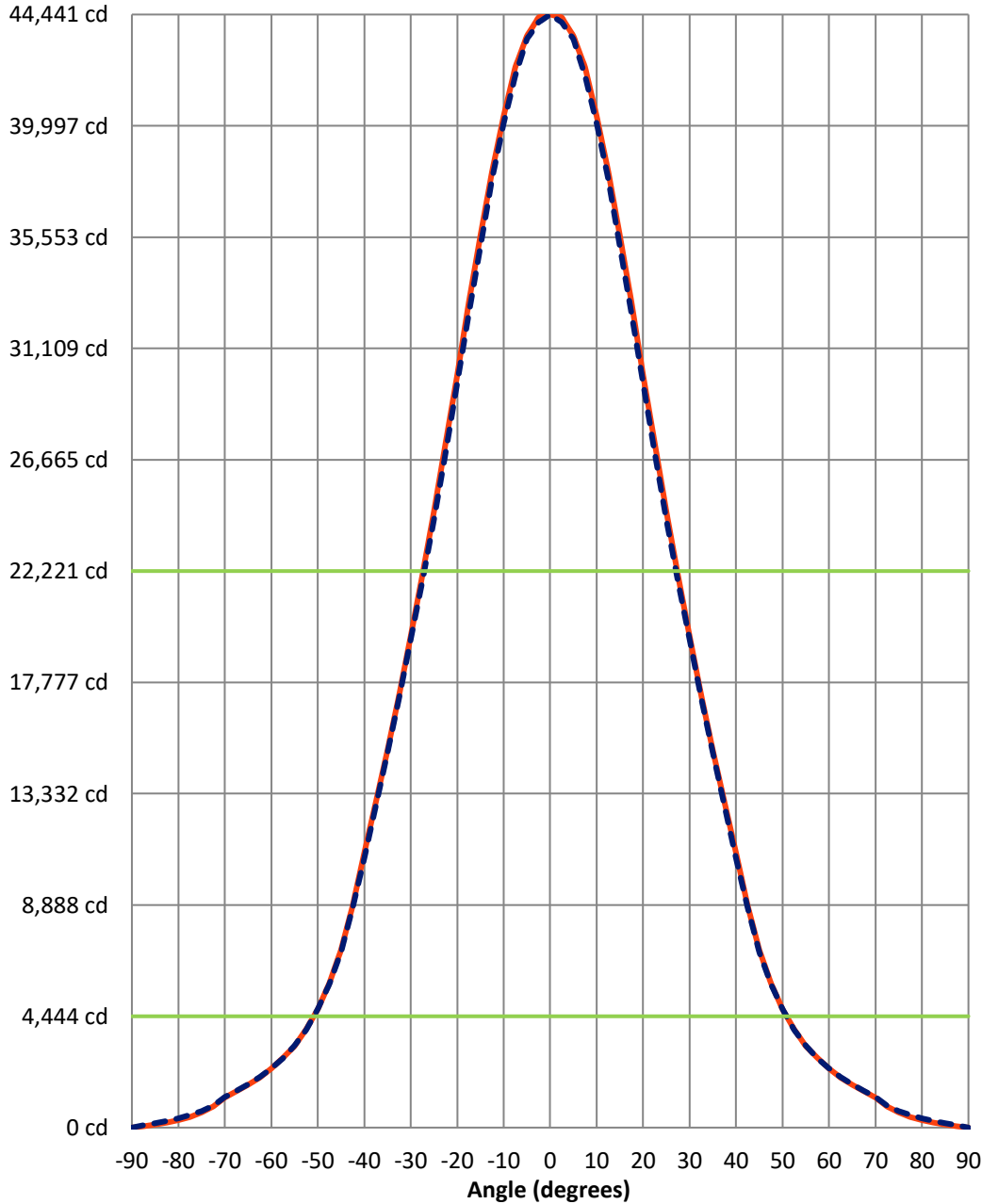
Luminous Intensity Polar Plot



— 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: 22161.6
 Efficiency: 48.1%

Field:
 H Angle: 101.7°
 V Angle: 101.8°
 Lumens: 40451.1
 Efficiency: 87.8%

Spill:
 Lumens: 5641.9
 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	10	19	28	38	47	57	62	66	76
85°	0	10	19	33	52	76	99	114	123	137	147
82.5°	0	14	33	52	81	109	147	166	185	204	218
80°	0	19	43	71	104	147	194	218	242	265	284
77.5°	0	24	52	85	133	180	237	270	298	327	355
75°	0	28	62	104	156	208	275	317	355	393	436
72.5°	0	33	71	118	175	237	313	365	407	459	516
70°	0	38	81	137	194	265	350	407	459	521	568
67.5°	0	43	90	147	213	289	379	450	507	564	616
65°	0	43	99	156	227	313	403	488	549	606	668
62.5°	0	47	109	166	242	332	426	521	587	649	720
60°	0	52	114	175	260	350	455	554	620	696	772
57.5°	0	57	118	185	270	365	474	582	663	744	824
55°	0	62	128	194	279	384	493	611	701	786	876
52.5°	0	62	133	199	294	398	511	630	739	833	938
50°	0	66	137	204	303	412	526	654	777	881	990
47.5°	0	71	142	208	308	421	545	677	819	928	1047
45°	0	71	147	213	317	436	559	691	848	976	1099
42.5°	0	76	147	218	322	445	573	715	871	1023	1155
40°	0	81	152	227	332	450	587	734	900	1070	1208
37.5°	0	81	156	232	336	459	597	753	928	1103	1255
35°	0	85	161	237	341	464	601	772	952	1137	1307
32.5°	0	85	161	246	346	474	611	786	980	1174	1354
30°	0	85	166	251	346	474	625	800	1004	1212	1402
27.5°	0	90	166	251	355	478	635	819	1028	1255	1449
25°	0	90	171	256	360	478	639	833	1056	1293	1492
22.5°	0	90	171	260	365	483	644	848	1084	1326	1539
20°	0	95	175	265	369	488	649	862	1113	1354	1577
17.5°	0	95	175	265	374	497	654	871	1137	1383	1610
15°	0	99	175	265	374	502	663	876	1160	1406	1643
12.5°	0	99	175	270	374	502	668	886	1184	1430	1667
10°	0	95	180	270	374	507	672	890	1198	1444	1691
7.5°	0	95	180	270	379	507	672	890	1212	1459	1705
5°	0	95	175	270	374	511	672	895	1231	1473	1719
2.5°	0	95	175	265	374	511	663	886	1227	1473	1728
0°	0	95	175	265	374	511	663	886	1227	1473	1728
-2.5°	0	95	175	265	374	511	663	886	1227	1473	1728
-5°	0	95	175	270	374	511	672	895	1231	1473	1719
-7.5°	0	95	180	270	379	507	672	890	1212	1459	1705
-10°	0	95	180	270	374	507	672	890	1198	1444	1691
-12.5°	0	99	175	270	374	502	668	886	1184	1430	1667
-15°	0	99	175	265	374	502	663	876	1160	1406	1643
-17.5°	0	95	175	265	374	497	654	871	1137	1383	1610
-20°	0	95	175	265	369	488	649	862	1113	1354	1577



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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	90	171	260	365	483	644	848	1084	1326	1539
-25°	0	90	171	256	360	478	639	833	1056	1293	1492
-27.5°	0	90	166	251	355	478	635	819	1028	1255	1449
-30°	0	85	166	251	346	474	625	800	1004	1212	1402
-32.5°	0	85	161	246	346	474	611	786	980	1174	1354
-35°	0	85	161	237	341	464	601	772	952	1137	1307
-37.5°	0	81	156	232	336	459	597	753	928	1103	1255
-40°	0	81	152	227	332	450	587	734	900	1070	1208
-42.5°	0	76	147	218	322	445	573	715	871	1023	1155
-45°	0	71	147	213	317	436	559	691	848	976	1099
-47.5°	0	71	142	208	308	421	545	677	819	928	1047
-50°	0	66	137	204	303	412	526	654	777	881	990
-52.5°	0	62	133	199	294	398	511	630	739	833	938
-55°	0	62	128	194	279	384	493	611	701	786	876
-57.5°	0	57	118	185	270	365	474	582	663	744	824
-60°	0	52	114	175	260	350	455	554	620	696	772
-62.5°	0	47	109	166	242	332	426	521	587	649	720
-65°	0	43	99	156	227	313	403	488	549	606	668
-67.5°	0	43	90	147	213	289	379	450	507	564	616
-70°	0	38	81	137	194	265	350	407	459	521	568
-72.5°	0	33	71	118	175	237	313	365	407	459	516
-75°	0	28	62	104	156	208	275	317	355	393	436
-77.5°	0	24	52	85	133	180	237	270	298	327	355
-80°	0	19	43	71	104	147	194	218	242	265	284
-82.5°	0	14	33	52	81	109	147	166	185	204	218
-85°	0	10	19	33	52	76	99	114	123	137	147
-87.5°	0	5	10	19	28	38	47	57	62	66	76
-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°	81	85	90	90	90	85	81	76	85	95	104
85°	156	171	175	185	180	171	166	156	175	194	218
82.5°	232	246	256	265	265	256	246	232	260	289	322
80°	303	322	341	355	355	341	327	308	341	384	426
77.5°	388	412	431	450	445	440	431	421	455	497	540
75°	474	507	521	540	549	545	545	554	592	644	691
72.5°	549	573	601	635	649	658	682	710	748	791	829
70°	611	639	677	710	739	767	800	838	876	919	957
67.5°	668	710	748	791	829	871	914	957	999	1047	1094
65°	729	777	824	871	923	976	1028	1075	1127	1189	1241
62.5°	791	843	900	957	1018	1080	1141	1203	1274	1340	1406
60°	848	914	980	1051	1122	1193	1260	1340	1425	1501	1586
57.5°	905	985	1061	1141	1222	1302	1397	1487	1586	1686	1781
55°	966	1061	1146	1236	1326	1430	1534	1648	1757	1885	2003
52.5°	1032	1132	1231	1331	1444	1558	1681	1814	1956	2103	2249
50°	1099	1208	1316	1435	1563	1695	1842	1998	2169	2339	2519
47.5°	1160	1279	1411	1539	1686	1842	2013	2202	2391	2604	2832
45°	1227	1354	1496	1653	1814	1998	2202	2410	2652	2893	3159
42.5°	1293	1430	1591	1757	1956	2164	2387	2652	2922	3220	3542
40°	1350	1506	1686	1885	2098	2330	2604	2893	3225	3580	3978
37.5°	1416	1586	1781	1998	2245	2515	2832	3168	3552	3982	4461
35°	1477	1667	1880	2117	2391	2704	3059	3452	3897	4418	5001
32.5°	1539	1747	1975	2235	2538	2893	3296	3760	4286	4882	5611
30°	1601	1818	2065	2349	2690	3092	3556	4072	4679	5432	6298
27.5°	1657	1894	2159	2472	2837	3277	3803	4418	5133	5981	6994
25°	1714	1960	2249	2586	2993	3476	4049	4726	5583	6587	7790
22.5°	1766	2027	2330	2694	3135	3670	4314	5086	6028	7146	8562
20°	1818	2093	2415	2799	3258	3845	4555	5417	6487	7804	9376
17.5°	1861	2155	2496	2908	3410	4025	4778	5749	6904	8410	10162
15°	1904	2207	2567	3002	3542	4205	5020	6038	7345	8983	10844
12.5°	1937	2249	2628	3088	3656	4357	5228	6331	7771	9523	11436
10°	1960	2287	2676	3154	3750	4480	5398	6568	8116	9963	11928
7.5°	1984	2316	2713	3206	3821	4574	5531	6753	8382	10304	12307
5°	2003	2339	2742	3244	3869	4645	5630	6871	8571	10546	12577
2.5°	2017	2358	2765	3277	3907	4721	5720	6999	8751	10749	12819
0°	2017	2363	2765	3277	3902	4735	5735	7008	8775	10745	12852
-2.5°	2017	2358	2765	3277	3907	4721	5720	6999	8751	10749	12819
-5°	2003	2339	2742	3244	3869	4645	5630	6871	8571	10546	12577
-7.5°	1984	2316	2713	3206	3821	4574	5531	6753	8382	10304	12307
-10°	1960	2287	2676	3154	3750	4480	5398	6568	8116	9963	11928
-12.5°	1937	2249	2628	3088	3656	4357	5228	6331	7771	9523	11436
-15°	1904	2207	2567	3002	3542	4205	5020	6038	7345	8983	10844
-17.5°	1861	2155	2496	2908	3410	4025	4778	5749	6904	8410	10162
-20°	1818	2093	2415	2799	3258	3845	4555	5417	6487	7804	9376



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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°	1766	2027	2330	2694	3135	3670	4314	5086	6028	7146	8562
-25°	1714	1960	2249	2586	2993	3476	4049	4726	5583	6587	7790
-27.5°	1657	1894	2159	2472	2837	3277	3803	4418	5133	5981	6994
-30°	1601	1818	2065	2349	2690	3092	3556	4072	4679	5432	6298
-32.5°	1539	1747	1975	2235	2538	2893	3296	3760	4286	4882	5611
-35°	1477	1667	1880	2117	2391	2704	3059	3452	3897	4418	5001
-37.5°	1416	1586	1781	1998	2245	2515	2832	3168	3552	3982	4461
-40°	1350	1506	1686	1885	2098	2330	2604	2893	3225	3580	3978
-42.5°	1293	1430	1591	1757	1956	2164	2387	2652	2922	3220	3542
-45°	1227	1354	1496	1653	1814	1998	2202	2410	2652	2893	3159
-47.5°	1160	1279	1411	1539	1686	1842	2013	2202	2391	2604	2832
-50°	1099	1208	1316	1435	1563	1695	1842	1998	2169	2339	2519
-52.5°	1032	1132	1231	1331	1444	1558	1681	1814	1956	2103	2249
-55°	966	1061	1146	1236	1326	1430	1534	1648	1757	1885	2003
-57.5°	905	985	1061	1141	1222	1302	1397	1487	1586	1686	1781
-60°	848	914	980	1051	1122	1193	1260	1340	1425	1501	1586
-62.5°	791	843	900	957	1018	1080	1141	1203	1274	1340	1406
-65°	729	777	824	871	923	976	1028	1075	1127	1189	1241
-67.5°	668	710	748	791	829	871	914	957	999	1047	1094
-70°	611	639	677	710	739	767	800	838	876	919	957
-72.5°	549	573	601	635	649	658	682	710	748	791	829
-75°	474	507	521	540	549	545	545	554	592	644	691
-77.5°	388	412	431	450	445	440	431	421	455	497	540
-80°	303	322	341	355	355	341	327	308	341	384	426
-82.5°	232	246	256	265	265	256	246	232	260	289	322
-85°	156	171	175	185	180	171	166	156	175	194	218
-87.5°	81	85	90	90	90	85	81	76	85	95	104
-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°	118	118	118	118	114	118	118	123	128	114	99
85°	237	242	242	242	242	242	242	242	242	218	194
82.5°	355	369	379	393	403	403	398	393	384	346	303
80°	469	493	507	521	535	530	526	516	511	464	417
77.5°	582	611	630	644	658	663	658	658	654	611	559
75°	729	753	772	791	810	819	824	824	824	786	739
72.5°	862	890	919	947	971	985	999	1009	1018	999	971
70°	999	1032	1066	1099	1132	1155	1174	1193	1203	1208	1208
67.5°	1141	1184	1227	1269	1307	1340	1364	1388	1406	1425	1435
65°	1298	1354	1406	1454	1496	1539	1572	1605	1634	1657	1672
62.5°	1473	1539	1601	1662	1710	1762	1814	1861	1899	1932	1956
60°	1667	1747	1823	1899	1975	2036	2103	2159	2207	2249	2287
57.5°	1885	1984	2079	2178	2264	2344	2425	2505	2576	2633	2680
55°	2126	2249	2372	2491	2609	2718	2822	2927	3021	3097	3163
52.5°	2406	2552	2709	2855	3016	3159	3291	3433	3561	3675	3769
50°	2704	2893	3097	3286	3495	3694	3874	4054	4233	4390	4518
47.5°	3054	3282	3547	3807	4063	4333	4584	4821	5067	5275	5450
45°	3433	3750	4063	4413	4735	5100	5446	5791	6094	6398	6653
42.5°	3883	4281	4679	5128	5569	6028	6516	6952	7406	7851	8221
40°	4418	4887	5436	5976	6587	7165	7856	8467	9045	9608	10086
37.5°	5005	5626	6303	6989	7818	8633	9442	10209	10896	11526	12028
35°	5682	6464	7269	8268	9253	10247	11175	12047	12828	13467	13998
32.5°	6459	7382	8495	9655	10797	11900	13008	13870	14684	15414	16039
30°	7283	8486	9783	11081	12326	13524	14642	15679	16626	17445	18146
27.5°	8249	9641	11086	12478	13813	15106	16375	17559	18596	19458	20329
25°	9206	10801	12345	13818	15262	16706	18103	19434	20646	21702	22645
22.5°	10214	11881	13510	15073	16711	18283	19813	21328	22720	23937	24998
20°	11147	12937	14599	16342	18118	19822	21541	23180	24733	26201	27408
17.5°	11981	13804	15617	17455	19391	21323	23189	24965	26736	28445	29951
15°	12724	14637	16498	18501	20589	22668	24747	26703	28696	30590	32276
12.5°	13382	15357	17336	19467	21650	23814	26092	28365	30576	32617	34445
10°	13927	15977	18099	20305	22574	24861	27314	29838	32205	34374	36363
7.5°	14339	16446	18662	20954	23345	25794	28355	30927	33432	35761	37845
5°	14632	16758	19036	21375	23866	26423	29156	31897	34455	36865	38996
2.5°	14897	17038	19358	21607	24146	26797	29534	32376	34990	37466	39839
0°	14969	17152	19496	21806	24273	26935	29724	32499	35179	37869	40099
-2.5°	14897	17038	19358	21607	24146	26797	29534	32376	34990	37466	39839
-5°	14632	16758	19036	21375	23866	26423	29156	31897	34455	36865	38996
-7.5°	14339	16446	18662	20954	23345	25794	28355	30927	33432	35761	37845
-10°	13927	15977	18099	20305	22574	24861	27314	29838	32205	34374	36363
-12.5°	13382	15357	17336	19467	21650	23814	26092	28365	30576	32617	34445
-15°	12724	14637	16498	18501	20589	22668	24747	26703	28696	30590	32276
-17.5°	11981	13804	15617	17455	19391	21323	23189	24965	26736	28445	29951
-20°	11147	12937	14599	16342	18118	19822	21541	23180	24733	26201	27408



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 CATALOG NUMBER: IFLD-L-SA7C-735-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10214	11881	13510	15073	16711	18283	19813	21328	22720	23937	24998
-25°	9206	10801	12345	13818	15262	16706	18103	19434	20646	21702	22645
-27.5°	8249	9641	11086	12478	13813	15106	16375	17559	18596	19458	20329
-30°	7283	8486	9783	11081	12326	13524	14642	15679	16626	17445	18146
-32.5°	6459	7382	8495	9655	10797	11900	13008	13870	14684	15414	16039
-35°	5682	6464	7269	8268	9253	10247	11175	12047	12828	13467	13998
-37.5°	5005	5626	6303	6989	7818	8633	9442	10209	10896	11526	12028
-40°	4418	4887	5436	5976	6587	7165	7856	8467	9045	9608	10086
-42.5°	3883	4281	4679	5128	5569	6028	6516	6952	7406	7851	8221
-45°	3433	3750	4063	4413	4735	5100	5446	5791	6094	6398	6653
-47.5°	3054	3282	3547	3807	4063	4333	4584	4821	5067	5275	5450
-50°	2704	2893	3097	3286	3495	3694	3874	4054	4233	4390	4518
-52.5°	2406	2552	2709	2855	3016	3159	3291	3433	3561	3675	3769
-55°	2126	2249	2372	2491	2609	2718	2822	2927	3021	3097	3163
-57.5°	1885	1984	2079	2178	2264	2344	2425	2505	2576	2633	2680
-60°	1667	1747	1823	1899	1975	2036	2103	2159	2207	2249	2287
-62.5°	1473	1539	1601	1662	1710	1762	1814	1861	1899	1932	1956
-65°	1298	1354	1406	1454	1496	1539	1572	1605	1634	1657	1672
-67.5°	1141	1184	1227	1269	1307	1340	1364	1388	1406	1425	1435
-70°	999	1032	1066	1099	1132	1155	1174	1193	1203	1208	1208
-72.5°	862	890	919	947	971	985	999	1009	1018	999	971
-75°	729	753	772	791	810	819	824	824	824	786	739
-77.5°	582	611	630	644	658	663	658	658	654	611	559
-80°	469	493	507	521	535	530	526	516	511	464	417
-82.5°	355	369	379	393	403	403	398	393	384	346	303
-85°	237	242	242	242	242	242	242	242	242	218	194
-87.5°	118	118	118	118	114	118	118	123	128	114	99
-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°	81	66	62	52	62	66	81	99	114	128	123
85°	166	137	133	123	133	137	166	194	218	242	242
82.5°	265	218	208	199	208	218	265	303	346	384	393
80°	374	317	308	298	308	317	374	417	464	511	516
77.5°	507	455	436	421	436	455	507	559	611	654	658
75°	687	635	620	606	620	635	687	739	786	824	824
72.5°	938	914	876	843	876	914	938	971	999	1018	1009
70°	1212	1222	1212	1198	1212	1222	1212	1208	1208	1203	1193
67.5°	1440	1449	1449	1454	1449	1449	1440	1435	1425	1406	1388
65°	1686	1691	1705	1710	1705	1691	1686	1672	1657	1634	1605
62.5°	1970	1984	1994	1994	1994	1984	1970	1956	1932	1899	1861
60°	2311	2330	2354	2358	2354	2330	2311	2287	2249	2207	2159
57.5°	2718	2742	2775	2784	2775	2742	2718	2680	2633	2576	2505
55°	3211	3244	3263	3253	3263	3244	3211	3163	3097	3021	2927
52.5°	3850	3907	3945	3926	3945	3907	3850	3769	3675	3561	3433
50°	4622	4693	4740	4726	4740	4693	4622	4518	4390	4233	4054
47.5°	5588	5687	5768	5772	5768	5687	5588	5450	5275	5067	4821
45°	6857	7004	7113	7094	7113	7004	6857	6653	6398	6094	5791
42.5°	8505	8708	8869	8855	8869	8708	8505	8221	7851	7406	6952
40°	10442	10692	10906	10962	10906	10692	10442	10086	9608	9045	8467
37.5°	12435	12757	13027	12999	13027	12757	12435	12028	11526	10896	10209
35°	14438	14774	15040	15063	15040	14774	14438	13998	13467	12828	12047
32.5°	16536	16910	17223	17265	17223	16910	16536	16039	15414	14684	13870
30°	18724	19174	19548	19623	19548	19174	18724	18146	17445	16626	15679
27.5°	21025	21560	21915	22053	21915	21560	21025	20329	19458	18596	17559
25°	23397	23980	24378	24600	24378	23980	23397	22645	21702	20646	19434
22.5°	25874	26565	27082	27328	27082	26565	25874	24998	23937	22720	21328
20°	28431	29184	29785	30041	29785	29184	28431	27408	26201	24733	23180
17.5°	31036	31954	32622	32949	32622	31954	31036	29951	28445	26736	24965
15°	33564	34540	35264	35615	35264	34540	33564	32276	30590	28696	26703
12.5°	35908	36941	37665	38172	37665	36941	35908	34445	32617	30576	28365
10°	38001	39128	39862	40388	39862	39128	38001	36363	34374	32205	29838
7.5°	39569	40994	41823	42339	41823	40994	39569	37845	35761	33432	30927
5°	40771	42344	43097	43584	43097	42344	40771	38996	36865	34455	31897
2.5°	41652	42893	43835	44323	43835	42893	41652	39839	37466	34990	32376
0°	41998	43456	44124	44441	44124	43456	41998	40099	37869	35179	32499
-2.5°	41652	42893	43835	44323	43835	42893	41652	39839	37466	34990	32376
-5°	40771	42344	43097	43584	43097	42344	40771	38996	36865	34455	31897
-7.5°	39569	40994	41823	42339	41823	40994	39569	37845	35761	33432	30927
-10°	38001	39128	39862	40388	39862	39128	38001	36363	34374	32205	29838
-12.5°	35908	36941	37665	38172	37665	36941	35908	34445	32617	30576	28365
-15°	33564	34540	35264	35615	35264	34540	33564	32276	30590	28696	26703
-17.5°	31036	31954	32622	32949	32622	31954	31036	29951	28445	26736	24965
-20°	28431	29184	29785	30041	29785	29184	28431	27408	26201	24733	23180



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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°	25874	26565	27082	27328	27082	26565	25874	24998	23937	22720	21328
-25°	23397	23980	24378	24600	24378	23980	23397	22645	21702	20646	19434
-27.5°	21025	21560	21915	22053	21915	21560	21025	20329	19458	18596	17559
-30°	18724	19174	19548	19623	19548	19174	18724	18146	17445	16626	15679
-32.5°	16536	16910	17223	17265	17223	16910	16536	16039	15414	14684	13870
-35°	14438	14774	15040	15063	15040	14774	14438	13998	13467	12828	12047
-37.5°	12435	12757	13027	12999	13027	12757	12435	12028	11526	10896	10209
-40°	10442	10692	10906	10962	10906	10692	10442	10086	9608	9045	8467
-42.5°	8505	8708	8869	8855	8869	8708	8505	8221	7851	7406	6952
-45°	6857	7004	7113	7094	7113	7004	6857	6653	6398	6094	5791
-47.5°	5588	5687	5768	5772	5768	5687	5588	5450	5275	5067	4821
-50°	4622	4693	4740	4726	4740	4693	4622	4518	4390	4233	4054
-52.5°	3850	3907	3945	3926	3945	3907	3850	3769	3675	3561	3433
-55°	3211	3244	3263	3253	3263	3244	3211	3163	3097	3021	2927
-57.5°	2718	2742	2775	2784	2775	2742	2718	2680	2633	2576	2505
-60°	2311	2330	2354	2358	2354	2330	2311	2287	2249	2207	2159
-62.5°	1970	1984	1994	1994	1994	1984	1970	1956	1932	1899	1861
-65°	1686	1691	1705	1710	1705	1691	1686	1672	1657	1634	1605
-67.5°	1440	1449	1449	1454	1449	1449	1440	1435	1425	1406	1388
-70°	1212	1222	1212	1198	1212	1222	1212	1208	1208	1203	1193
-72.5°	938	914	876	843	876	914	938	971	999	1018	1009
-75°	687	635	620	606	620	635	687	739	786	824	824
-77.5°	507	455	436	421	436	455	507	559	611	654	658
-80°	374	317	308	298	308	317	374	417	464	511	516
-82.5°	265	218	208	199	208	218	265	303	346	384	393
-85°	166	137	133	123	133	137	166	194	218	242	242
-87.5°	81	66	62	52	62	66	81	99	114	128	123
-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°	118	118	114	118	118	118	118	104	95	85	76
85°	242	242	242	242	242	242	237	218	194	175	156
82.5°	398	403	403	393	379	369	355	322	289	260	232
80°	526	530	535	521	507	493	469	426	384	341	308
77.5°	658	663	658	644	630	611	582	540	497	455	421
75°	824	819	810	791	772	753	729	691	644	592	554
72.5°	999	985	971	947	919	890	862	829	791	748	710
70°	1174	1155	1132	1099	1066	1032	999	957	919	876	838
67.5°	1364	1340	1307	1269	1227	1184	1141	1094	1047	999	957
65°	1572	1539	1496	1454	1406	1354	1298	1241	1189	1127	1075
62.5°	1814	1762	1710	1662	1601	1539	1473	1406	1340	1274	1203
60°	2103	2036	1975	1899	1823	1747	1667	1586	1501	1425	1340
57.5°	2425	2344	2264	2178	2079	1984	1885	1781	1686	1586	1487
55°	2822	2718	2609	2491	2372	2249	2126	2003	1885	1757	1648
52.5°	3291	3159	3016	2855	2709	2552	2406	2249	2103	1956	1814
50°	3874	3694	3495	3286	3097	2893	2704	2519	2339	2169	1998
47.5°	4584	4333	4063	3807	3547	3282	3054	2832	2604	2391	2202
45°	5446	5100	4735	4413	4063	3750	3433	3159	2893	2652	2410
42.5°	6516	6028	5569	5128	4679	4281	3883	3542	3220	2922	2652
40°	7856	7165	6587	5976	5436	4887	4418	3978	3580	3225	2893
37.5°	9442	8633	7818	6989	6303	5626	5005	4461	3982	3552	3168
35°	11175	10247	9253	8268	7269	6464	5682	5001	4418	3897	3452
32.5°	13008	11900	10797	9655	8495	7382	6459	5611	4882	4286	3760
30°	14642	13524	12326	11081	9783	8486	7283	6298	5432	4679	4072
27.5°	16375	15106	13813	12478	11086	9641	8249	6994	5981	5133	4418
25°	18103	16706	15262	13818	12345	10801	9206	7790	6587	5583	4726
22.5°	19813	18283	16711	15073	13510	11881	10214	8562	7146	6028	5086
20°	21541	19822	18118	16342	14599	12937	11147	9376	7804	6487	5417
17.5°	23189	21323	19391	17455	15617	13804	11981	10162	8410	6904	5749
15°	24747	22668	20589	18501	16498	14637	12724	10844	8983	7345	6038
12.5°	26092	23814	21650	19467	17336	15357	13382	11436	9523	7771	6331
10°	27314	24861	22574	20305	18099	15977	13927	11928	9963	8116	6568
7.5°	28355	25794	23345	20954	18662	16446	14339	12307	10304	8382	6753
5°	29156	26423	23866	21375	19036	16758	14632	12577	10546	8571	6871
2.5°	29534	26797	24146	21607	19358	17038	14897	12819	10749	8751	6999
0°	29724	26935	24273	21806	19496	17152	14969	12852	10745	8775	7008
-2.5°	29534	26797	24146	21607	19358	17038	14897	12819	10749	8751	6999
-5°	29156	26423	23866	21375	19036	16758	14632	12577	10546	8571	6871
-7.5°	28355	25794	23345	20954	18662	16446	14339	12307	10304	8382	6753
-10°	27314	24861	22574	20305	18099	15977	13927	11928	9963	8116	6568
-12.5°	26092	23814	21650	19467	17336	15357	13382	11436	9523	7771	6331
-15°	24747	22668	20589	18501	16498	14637	12724	10844	8983	7345	6038
-17.5°	23189	21323	19391	17455	15617	13804	11981	10162	8410	6904	5749
-20°	21541	19822	18118	16342	14599	12937	11147	9376	7804	6487	5417



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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°	19813	18283	16711	15073	13510	11881	10214	8562	7146	6028	5086
-25°	18103	16706	15262	13818	12345	10801	9206	7790	6587	5583	4726
-27.5°	16375	15106	13813	12478	11086	9641	8249	6994	5981	5133	4418
-30°	14642	13524	12326	11081	9783	8486	7283	6298	5432	4679	4072
-32.5°	13008	11900	10797	9655	8495	7382	6459	5611	4882	4286	3760
-35°	11175	10247	9253	8268	7269	6464	5682	5001	4418	3897	3452
-37.5°	9442	8633	7818	6989	6303	5626	5005	4461	3982	3552	3168
-40°	7856	7165	6587	5976	5436	4887	4418	3978	3580	3225	2893
-42.5°	6516	6028	5569	5128	4679	4281	3883	3542	3220	2922	2652
-45°	5446	5100	4735	4413	4063	3750	3433	3159	2893	2652	2410
-47.5°	4584	4333	4063	3807	3547	3282	3054	2832	2604	2391	2202
-50°	3874	3694	3495	3286	3097	2893	2704	2519	2339	2169	1998
-52.5°	3291	3159	3016	2855	2709	2552	2406	2249	2103	1956	1814
-55°	2822	2718	2609	2491	2372	2249	2126	2003	1885	1757	1648
-57.5°	2425	2344	2264	2178	2079	1984	1885	1781	1686	1586	1487
-60°	2103	2036	1975	1899	1823	1747	1667	1586	1501	1425	1340
-62.5°	1814	1762	1710	1662	1601	1539	1473	1406	1340	1274	1203
-65°	1572	1539	1496	1454	1406	1354	1298	1241	1189	1127	1075
-67.5°	1364	1340	1307	1269	1227	1184	1141	1094	1047	999	957
-70°	1174	1155	1132	1099	1066	1032	999	957	919	876	838
-72.5°	999	985	971	947	919	890	862	829	791	748	710
-75°	824	819	810	791	772	753	729	691	644	592	554
-77.5°	658	663	658	644	630	611	582	540	497	455	421
-80°	526	530	535	521	507	493	469	426	384	341	308
-82.5°	398	403	403	393	379	369	355	322	289	260	232
-85°	242	242	242	242	242	242	237	218	194	175	156
-87.5°	118	118	114	118	118	118	118	104	95	85	76
-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°	81	85	90	90	90	85	81	76	66	62	57
85°	166	171	180	185	175	171	156	147	137	123	114
82.5°	246	256	265	265	256	246	232	218	204	185	166
80°	327	341	355	355	341	322	303	284	265	242	218
77.5°	431	440	445	450	431	412	388	355	327	298	270
75°	545	545	549	540	521	507	474	436	393	355	317
72.5°	682	658	649	635	601	573	549	516	459	407	365
70°	800	767	739	710	677	639	611	568	521	459	407
67.5°	914	871	829	791	748	710	668	616	564	507	450
65°	1028	976	923	871	824	777	729	668	606	549	488
62.5°	1141	1080	1018	957	900	843	791	720	649	587	521
60°	1260	1193	1122	1051	980	914	848	772	696	620	554
57.5°	1397	1302	1222	1141	1061	985	905	824	744	663	582
55°	1534	1430	1326	1236	1146	1061	966	876	786	701	611
52.5°	1681	1558	1444	1331	1231	1132	1032	938	833	739	630
50°	1842	1695	1563	1435	1316	1208	1099	990	881	777	654
47.5°	2013	1842	1686	1539	1411	1279	1160	1047	928	819	677
45°	2202	1998	1814	1653	1496	1354	1227	1099	976	848	691
42.5°	2387	2164	1956	1757	1591	1430	1293	1155	1023	871	715
40°	2604	2330	2098	1885	1686	1506	1350	1208	1070	900	734
37.5°	2832	2515	2245	1998	1781	1586	1416	1255	1103	928	753
35°	3059	2704	2391	2117	1880	1667	1477	1307	1137	952	772
32.5°	3296	2893	2538	2235	1975	1747	1539	1354	1174	980	786
30°	3556	3092	2690	2349	2065	1818	1601	1402	1212	1004	800
27.5°	3803	3277	2837	2472	2159	1894	1657	1449	1255	1028	819
25°	4049	3476	2993	2586	2249	1960	1714	1492	1293	1056	833
22.5°	4314	3670	3135	2694	2330	2027	1766	1539	1326	1084	848
20°	4555	3845	3258	2799	2415	2093	1818	1577	1354	1113	862
17.5°	4778	4025	3410	2908	2496	2155	1861	1610	1383	1137	871
15°	5020	4205	3542	3002	2567	2207	1904	1643	1406	1160	876
12.5°	5228	4357	3656	3088	2628	2249	1937	1667	1430	1184	886
10°	5398	4480	3750	3154	2676	2287	1960	1691	1444	1198	890
7.5°	5531	4574	3821	3206	2713	2316	1984	1705	1459	1212	890
5°	5630	4645	3869	3244	2742	2339	2003	1719	1473	1231	895
2.5°	5720	4721	3907	3277	2765	2358	2017	1728	1473	1227	886
0°	5735	4735	3902	3277	2765	2363	2017	1728	1468	1222	876
-2.5°	5720	4721	3907	3277	2765	2358	2017	1728	1473	1227	886
-5°	5630	4645	3869	3244	2742	2339	2003	1719	1473	1231	895
-7.5°	5531	4574	3821	3206	2713	2316	1984	1705	1459	1212	890
-10°	5398	4480	3750	3154	2676	2287	1960	1691	1444	1198	890
-12.5°	5228	4357	3656	3088	2628	2249	1937	1667	1430	1184	886
-15°	5020	4205	3542	3002	2567	2207	1904	1643	1406	1160	876
-17.5°	4778	4025	3410	2908	2496	2155	1861	1610	1383	1137	871
-20°	4555	3845	3258	2799	2415	2093	1818	1577	1354	1113	862



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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°	4314	3670	3135	2694	2330	2027	1766	1539	1326	1084	848
-25°	4049	3476	2993	2586	2249	1960	1714	1492	1293	1056	833
-27.5°	3803	3277	2837	2472	2159	1894	1657	1449	1255	1028	819
-30°	3556	3092	2690	2349	2065	1818	1601	1402	1212	1004	800
-32.5°	3296	2893	2538	2235	1975	1747	1539	1354	1174	980	786
-35°	3059	2704	2391	2117	1880	1667	1477	1307	1137	952	772
-37.5°	2832	2515	2245	1998	1781	1586	1416	1255	1103	928	753
-40°	2604	2330	2098	1885	1686	1506	1350	1208	1070	900	734
-42.5°	2387	2164	1956	1757	1591	1430	1293	1155	1023	871	715
-45°	2202	1998	1814	1653	1496	1354	1227	1099	976	848	691
-47.5°	2013	1842	1686	1539	1411	1279	1160	1047	928	819	677
-50°	1842	1695	1563	1435	1316	1208	1099	990	881	777	654
-52.5°	1681	1558	1444	1331	1231	1132	1032	938	833	739	630
-55°	1534	1430	1326	1236	1146	1061	966	876	786	701	611
-57.5°	1397	1302	1222	1141	1061	985	905	824	744	663	582
-60°	1260	1193	1122	1051	980	914	848	772	696	620	554
-62.5°	1141	1080	1018	957	900	843	791	720	649	587	521
-65°	1028	976	923	871	824	777	729	668	606	549	488
-67.5°	914	871	829	791	748	710	668	616	564	507	450
-70°	800	767	739	710	677	639	611	568	521	459	407
-72.5°	682	658	649	635	601	573	549	516	459	407	365
-75°	545	545	549	540	521	507	474	436	393	355	317
-77.5°	431	440	445	450	431	412	388	355	327	298	270
-80°	327	341	355	355	341	322	303	284	265	242	218
-82.5°	246	256	265	265	256	246	232	218	204	185	166
-85°	166	171	180	185	175	171	156	147	137	123	114
-87.5°	81	85	90	90	90	85	81	76	66	62	57
-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°	47	38	28	19	10	5	0
85°	99	76	52	33	19	10	0
82.5°	147	109	81	52	33	14	0
80°	194	147	104	71	43	19	0
77.5°	237	180	133	85	52	24	0
75°	275	208	156	104	62	28	0
72.5°	313	237	175	118	71	33	0
70°	350	265	194	137	81	38	0
67.5°	379	289	213	147	90	43	0
65°	403	313	227	156	99	43	0
62.5°	426	332	242	166	109	47	0
60°	455	350	260	175	114	52	0
57.5°	474	365	270	185	118	57	0
55°	493	384	279	194	128	62	0
52.5°	511	398	294	199	133	62	0
50°	526	412	303	204	137	66	0
47.5°	545	421	308	208	142	71	0
45°	559	436	317	213	147	71	0
42.5°	573	445	322	218	147	76	0
40°	587	450	332	227	152	81	0
37.5°	597	459	336	232	156	81	0
35°	601	464	341	237	161	85	0
32.5°	611	474	346	246	161	85	0
30°	625	474	346	251	166	85	0
27.5°	635	478	355	251	166	90	0
25°	639	478	360	256	171	90	0
22.5°	644	483	365	260	171	90	0
20°	649	488	369	265	175	95	0
17.5°	654	497	374	265	175	95	0
15°	663	502	374	265	175	99	0
12.5°	668	502	374	270	175	99	0
10°	672	507	374	270	180	95	0
7.5°	672	507	379	270	180	95	0
5°	672	511	374	270	175	95	0
2.5°	663	511	374	265	175	95	0
0°	658	507	369	265	175	95	0
-2.5°	663	511	374	265	175	95	0
-5°	672	511	374	270	175	95	0
-7.5°	672	507	379	270	180	95	0
-10°	672	507	374	270	180	95	0
-12.5°	668	502	374	270	175	99	0
-15°	663	502	374	265	175	99	0
-17.5°	654	497	374	265	175	95	0
-20°	649	488	369	265	175	95	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	644	483	365	260	171	90	0
-25°	639	478	360	256	171	90	0
-27.5°	635	478	355	251	166	90	0
-30°	625	474	346	251	166	85	0
-32.5°	611	474	346	246	161	85	0
-35°	601	464	341	237	161	85	0
-37.5°	597	459	336	232	156	81	0
-40°	587	450	332	227	152	81	0
-42.5°	573	445	322	218	147	76	0
-45°	559	436	317	213	147	71	0
-47.5°	545	421	308	208	142	71	0
-50°	526	412	303	204	137	66	0
-52.5°	511	398	294	199	133	62	0
-55°	493	384	279	194	128	62	0
-57.5°	474	365	270	185	118	57	0
-60°	455	350	260	175	114	52	0
-62.5°	426	332	242	166	109	47	0
-65°	403	313	227	156	99	43	0
-67.5°	379	289	213	147	90	43	0
-70°	350	265	194	137	81	38	0
-72.5°	313	237	175	118	71	33	0
-75°	275	208	156	104	62	28	0
-77.5°	237	180	133	85	52	24	0
-80°	194	147	104	71	43	19	0
-82.5°	147	109	81	52	33	14	0
-85°	99	76	52	33	19	10	0
-87.5°	47	38	28	19	10	5	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)