

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: P622226

Luminaire Tested: **IFLD-L-SA7E-740-U-66**

Issue Date: 09/20/2022

Test Information

Test Method: LM-79-2019
Report Number: P622226
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/20/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-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

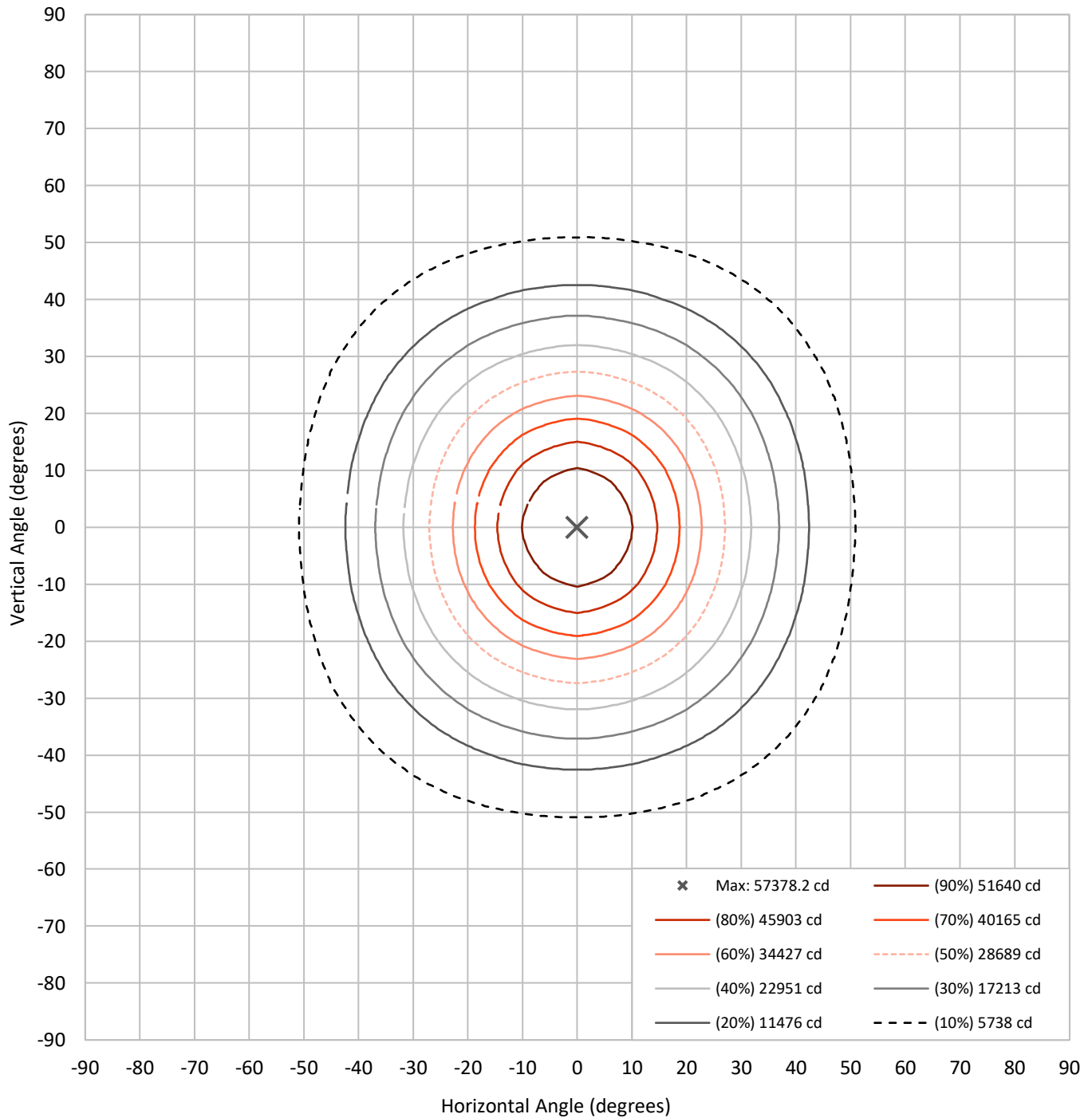
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	59510.7 lumens	Max Intensity:	57378.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	111.7 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:	28612.9 lumens	Field Lumens:	52226.5 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%
Input Watts (W):	532.7		
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





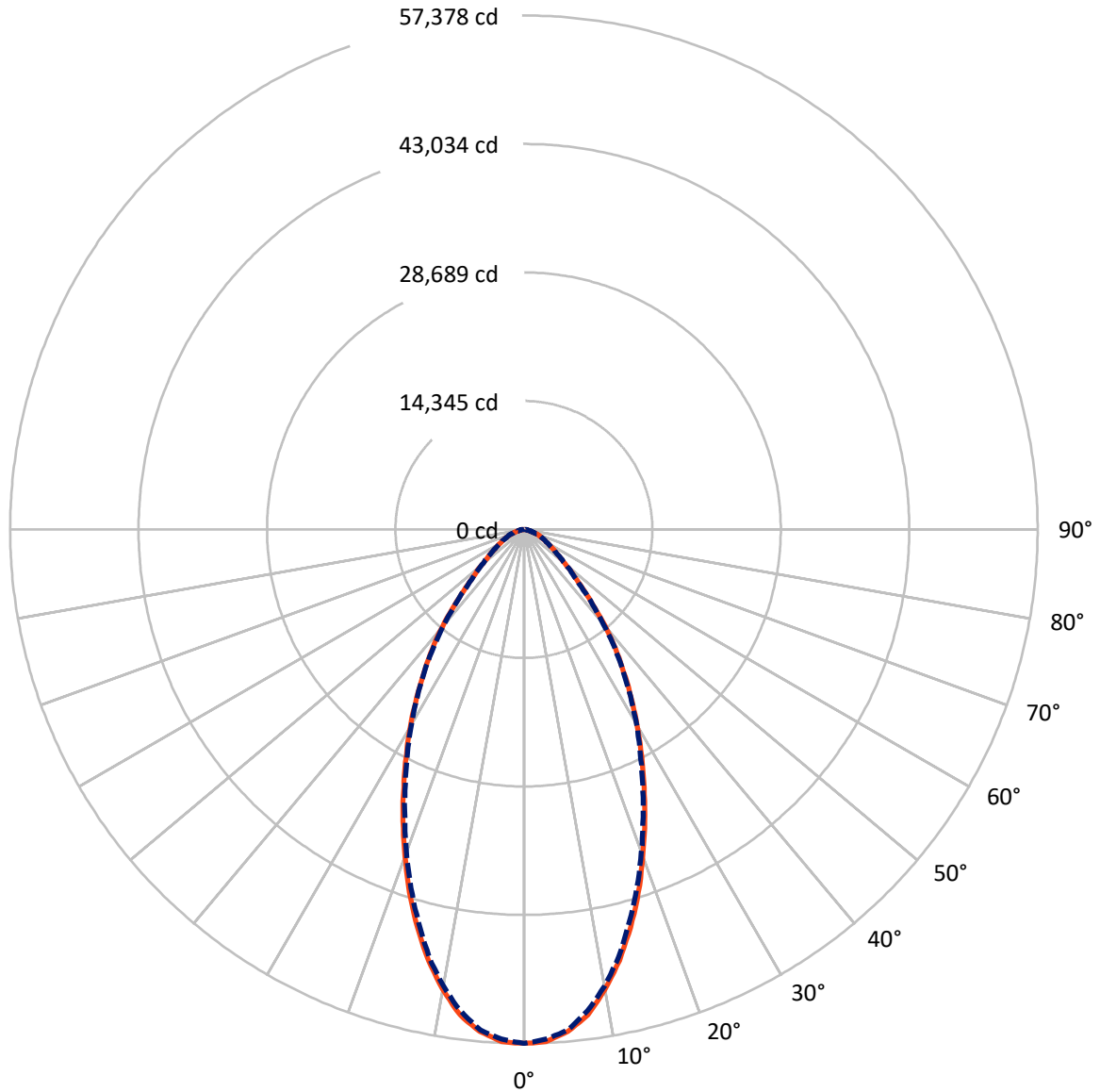
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Lumen Table

90	4.2	25.5	51.4	78.2	67.2	78.2	51.4	25.5	4.2									
80	4.2	25.5	51.4	78.2	67.2	78.2	51.4	25.5	4.2									
70	10.5	11.2	19.8	30.2	42.2	53.9	62.9	67.4	67.4	62.9	53.9	42.2	30.2	19.8	11.2	10.5		
60		14.8	28.1	46.2	69.3	94.4	117.1	130.7	130.7	117.1	94.4	69.3	46.2	28.1	14.8			
50	14.1	18.5	37.8	68.1	113.1	173.3	238.7	283.1	283.1	238.7	173.3	113.1	68.1	37.8	18.5	14.1		
40		22.0	48.7	98.1	188.1	332.7	483.9	577.9	577.9	483.9	332.7	188.1	98.1	48.7	22.0			
30	16.2	25.3	59.9	135.9	301.1	543.3	780.5	936.7	936.7	780.5	543.3	301.1	135.9	59.9	25.3	16.2		
20		28.0	70.0	174.9	410.1	731.6	1083.5	1337.8	1337.8	1083.5	731.6	410.1	174.9	70.0	28.0			
10	17.0	29.4	76.0	200.6	473.4	848.6	1292.3	1624.2	1624.2	1292.3	848.6	473.4	200.6	76.0	29.4	17.0		
0		29.4	76.0	200.6	473.4	848.6	1292.3	1624.2	1624.2	1292.3	848.6	473.4	200.6	76.0	29.4			
-10	16.2	28.0	70.0	174.9	410.1	731.6	1083.5	1337.8	1337.8	1083.5	731.6	410.1	174.9	70.0	28.0	16.2		
-20		25.3	59.9	135.9	301.1	543.3	780.5	936.7	936.7	780.5	543.3	301.1	135.9	59.9	25.3			
-30	14.1	22.0	48.7	98.1	188.1	332.7	483.9	577.9	577.9	483.9	332.7	188.1	98.1	48.7	22.0	14.1		
-40		18.5	37.8	68.1	113.1	173.3	238.7	283.1	283.1	238.7	173.3	113.1	68.1	37.8	18.5			
-50	10.5	14.8	28.1	46.2	69.3	94.4	117.1	130.7	130.7	117.1	94.4	69.3	46.2	28.1	14.8	10.5		
-60		11.2	19.8	30.2	42.2	53.9	62.9	67.4	67.4	62.9	53.9	42.2	30.2	19.8	11.2			
-70	4.2	4.2	25.5	51.4	78.2	67.2	78.2	51.4	25.5	4.2	25.5	51.4	78.2	67.2	78.2	51.4	25.5	4.2
-80		4.2	25.5	51.4	78.2	67.2	78.2	51.4	25.5	4.2	25.5	51.4	78.2	67.2	78.2	51.4	25.5	4.2
-90	4.2	25.5	51.4	78.2	67.2	78.2	51.4	25.5	4.2	25.5	51.4	78.2	67.2	78.2	51.4	25.5	4.2	

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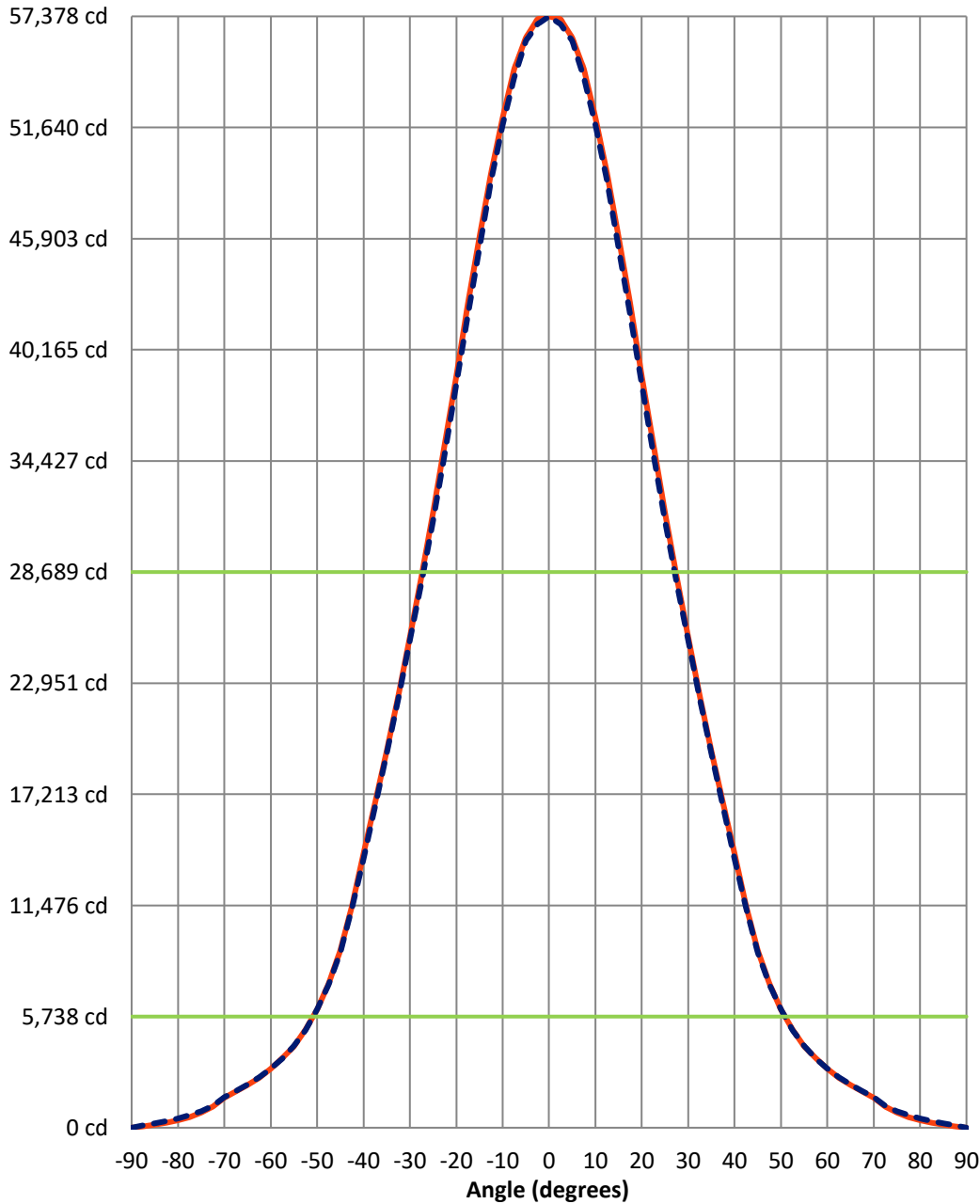
Luminous Intensity Polar Plot



— 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: 28612.9
 Efficiency: 48.1%

Field:
 H Angle: 101.7°
 V Angle: 101.8°
 Lumens: 52226.5
 Efficiency: 87.8%

Spill:
 Lumens: 7284.2
 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	6	12	25	37	49	61	73	80	86	98
85°	0	12	25	43	67	98	128	147	159	177	190
82.5°	0	18	43	67	104	141	190	214	238	263	281
80°	0	25	55	92	135	190	251	281	312	342	367
77.5°	0	31	67	110	171	232	306	349	385	422	459
75°	0	37	80	135	202	269	355	410	459	507	563
72.5°	0	43	92	153	226	306	404	471	526	593	666
70°	0	49	104	177	251	342	452	526	593	673	734
67.5°	0	55	116	190	275	373	489	581	654	728	795
65°	0	55	128	202	294	404	520	630	709	783	862
62.5°	0	61	141	214	312	428	550	673	758	838	929
60°	0	67	147	226	336	452	587	715	801	899	997
57.5°	0	73	153	238	349	471	611	752	856	960	1064
55°	0	80	165	251	361	495	636	789	905	1015	1131
52.5°	0	80	171	257	379	514	660	813	954	1076	1211
50°	0	86	177	263	391	532	679	844	1003	1137	1278
47.5°	0	92	183	269	397	544	703	874	1058	1198	1351
45°	0	92	190	275	410	563	721	893	1094	1259	1418
42.5°	0	98	190	281	416	575	740	923	1125	1321	1492
40°	0	104	196	294	428	581	758	948	1162	1382	1559
37.5°	0	104	202	300	434	593	770	972	1198	1425	1620
35°	0	110	208	306	440	599	777	997	1229	1467	1687
32.5°	0	110	208	318	446	611	789	1015	1266	1516	1749
30°	0	110	214	324	446	611	807	1033	1296	1565	1810
27.5°	0	116	214	324	459	618	819	1058	1327	1620	1871
25°	0	116	220	330	465	618	825	1076	1363	1669	1926
22.5°	0	116	220	336	471	624	832	1094	1400	1712	1987
20°	0	122	226	342	477	630	838	1113	1437	1749	2036
17.5°	0	122	226	342	483	642	844	1125	1467	1785	2079
15°	0	128	226	342	483	648	856	1131	1498	1816	2122
12.5°	0	128	226	349	483	648	862	1143	1529	1846	2152
10°	0	122	232	349	483	654	868	1149	1547	1865	2183
7.5°	0	122	232	349	489	654	868	1149	1565	1883	2201
5°	0	122	226	349	483	660	868	1156	1590	1901	2219
2.5°	0	122	226	342	483	660	856	1143	1584	1901	2232
0°	0	122	226	342	477	630	838	1113	1437	1749	2036
-2.5°	0	122	226	342	483	660	856	1143	1584	1901	2232
-5°	0	122	226	349	483	660	868	1156	1590	1901	2219
-7.5°	0	122	232	349	489	654	868	1149	1565	1883	2201
-10°	0	122	232	349	483	654	868	1149	1547	1865	2183
-12.5°	0	128	226	349	483	648	862	1143	1529	1846	2152
-15°	0	128	226	342	483	648	856	1131	1498	1816	2122
-17.5°	0	122	226	342	483	642	844	1125	1467	1785	2079
-20°	0	122	226	342	477	630	838	1113	1437	1749	2036



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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	116	220	336	471	624	832	1094	1400	1712	1987
-25°	0	116	220	330	465	618	825	1076	1363	1669	1926
-27.5°	0	116	214	324	459	618	819	1058	1327	1620	1871
-30°	0	110	214	324	446	611	807	1033	1296	1565	1810
-32.5°	0	110	208	318	446	611	789	1015	1266	1516	1749
-35°	0	110	208	306	440	599	777	997	1229	1467	1687
-37.5°	0	104	202	300	434	593	770	972	1198	1425	1620
-40°	0	104	196	294	428	581	758	948	1162	1382	1559
-42.5°	0	98	190	281	416	575	740	923	1125	1321	1492
-45°	0	92	190	275	410	563	721	893	1094	1259	1418
-47.5°	0	92	183	269	397	544	703	874	1058	1198	1351
-50°	0	86	177	263	391	532	679	844	1003	1137	1278
-52.5°	0	80	171	257	379	514	660	813	954	1076	1211
-55°	0	80	165	251	361	495	636	789	905	1015	1131
-57.5°	0	73	153	238	349	471	611	752	856	960	1064
-60°	0	67	147	226	336	452	587	715	801	899	997
-62.5°	0	61	141	214	312	428	550	673	758	838	929
-65°	0	55	128	202	294	404	520	630	709	783	862
-67.5°	0	55	116	190	275	373	489	581	654	728	795
-70°	0	49	104	177	251	342	452	526	593	673	734
-72.5°	0	43	92	153	226	306	404	471	526	593	666
-75°	0	37	80	135	202	269	355	410	459	507	563
-77.5°	0	31	67	110	171	232	306	349	385	422	459
-80°	0	25	55	92	135	190	251	281	312	342	367
-82.5°	0	18	43	67	104	141	190	214	238	263	281
-85°	0	12	25	43	67	98	128	147	159	177	190
-87.5°	0	6	12	25	37	49	61	73	80	86	98
-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°	104	110	116	116	116	110	104	98	110	122	135
85°	202	220	226	238	232	220	214	202	226	251	281
82.5°	300	318	330	342	342	330	318	300	336	373	416
80°	391	416	440	459	459	440	422	397	440	495	550
77.5°	501	532	556	581	575	569	556	544	587	642	697
75°	611	654	673	697	709	703	703	715	764	832	893
72.5°	709	740	777	819	838	850	880	917	966	1021	1070
70°	789	825	874	917	954	990	1033	1082	1131	1186	1235
67.5°	862	917	966	1021	1070	1125	1180	1235	1290	1351	1412
65°	942	1003	1064	1125	1192	1259	1327	1388	1455	1535	1602
62.5°	1021	1088	1162	1235	1315	1394	1473	1553	1645	1730	1816
60°	1094	1180	1266	1357	1449	1541	1626	1730	1840	1938	2048
57.5°	1168	1272	1370	1473	1577	1681	1804	1920	2048	2177	2299
55°	1247	1370	1480	1596	1712	1846	1981	2128	2268	2433	2586
52.5°	1333	1461	1590	1718	1865	2011	2170	2342	2525	2715	2904
50°	1418	1559	1700	1853	2018	2189	2378	2580	2800	3020	3253
47.5°	1498	1651	1822	1987	2177	2378	2598	2843	3088	3363	3656
45°	1584	1749	1932	2134	2342	2580	2843	3112	3424	3736	4078
42.5°	1669	1846	2054	2268	2525	2794	3081	3424	3772	4157	4573
40°	1742	1944	2177	2433	2708	3008	3363	3736	4164	4622	5136
37.5°	1828	2048	2299	2580	2898	3246	3656	4090	4585	5142	5759
35°	1908	2152	2427	2733	3088	3491	3950	4457	5032	5704	6456
32.5°	1987	2256	2550	2886	3277	3736	4255	4854	5533	6303	7245
30°	2067	2348	2666	3033	3473	3992	4592	5258	6041	7013	8131
27.5°	2140	2446	2788	3191	3662	4231	4909	5704	6627	7722	9030
25°	2213	2531	2904	3338	3864	4488	5227	6102	7208	8504	10057
22.5°	2281	2617	3008	3479	4047	4738	5570	6566	7783	9226	11054
20°	2348	2702	3118	3613	4206	4964	5882	6994	8376	10076	12105
17.5°	2403	2782	3222	3754	4402	5197	6169	7422	8914	10858	13120
15°	2458	2849	3314	3876	4573	5429	6481	7795	9483	11598	14001
12.5°	2501	2904	3393	3986	4720	5625	6750	8174	10033	12295	14765
10°	2531	2953	3454	4072	4842	5784	6970	8480	10479	12864	15401
7.5°	2562	2990	3503	4139	4934	5906	7141	8718	10822	13304	15890
5°	2586	3020	3540	4188	4995	5998	7269	8871	11066	13616	16238
2.5°	2605	3045	3571	4231	5044	6096	7386	9036	11298	13878	16550
0°	2605	3051	3571	4231	5038	6114	7404	9049	11329	13872	16593
-2.5°	2605	3045	3571	4231	5044	6096	7386	9036	11298	13878	16550
-5°	2586	3020	3540	4188	4995	5998	7269	8871	11066	13616	16238
-7.5°	2562	2990	3503	4139	4934	5906	7141	8718	10822	13304	15890
-10°	2531	2953	3454	4072	4842	5784	6970	8480	10479	12864	15401
-12.5°	2501	2904	3393	3986	4720	5625	6750	8174	10033	12295	14765
-15°	2458	2849	3314	3876	4573	5429	6481	7795	9483	11598	14001
-17.5°	2403	2782	3222	3754	4402	5197	6169	7422	8914	10858	13120
-20°	2348	2702	3118	3613	4206	4964	5882	6994	8376	10076	12105



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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°	2281	2617	3008	3479	4047	4738	5570	6566	7783	9226	11054
-25°	2213	2531	2904	3338	3864	4488	5227	6102	7208	8504	10057
-27.5°	2140	2446	2788	3191	3662	4231	4909	5704	6627	7722	9030
-30°	2067	2348	2666	3033	3473	3992	4592	5258	6041	7013	8131
-32.5°	1987	2256	2550	2886	3277	3736	4255	4854	5533	6303	7245
-35°	1908	2152	2427	2733	3088	3491	3950	4457	5032	5704	6456
-37.5°	1828	2048	2299	2580	2898	3246	3656	4090	4585	5142	5759
-40°	1742	1944	2177	2433	2708	3008	3363	3736	4164	4622	5136
-42.5°	1669	1846	2054	2268	2525	2794	3081	3424	3772	4157	4573
-45°	1584	1749	1932	2134	2342	2580	2843	3112	3424	3736	4078
-47.5°	1498	1651	1822	1987	2177	2378	2598	2843	3088	3363	3656
-50°	1418	1559	1700	1853	2018	2189	2378	2580	2800	3020	3253
-52.5°	1333	1461	1590	1718	1865	2011	2170	2342	2525	2715	2904
-55°	1247	1370	1480	1596	1712	1846	1981	2128	2268	2433	2586
-57.5°	1168	1272	1370	1473	1577	1681	1804	1920	2048	2177	2299
-60°	1094	1180	1266	1357	1449	1541	1626	1730	1840	1938	2048
-62.5°	1021	1088	1162	1235	1315	1394	1473	1553	1645	1730	1816
-65°	942	1003	1064	1125	1192	1259	1327	1388	1455	1535	1602
-67.5°	862	917	966	1021	1070	1125	1180	1235	1290	1351	1412
-70°	789	825	874	917	954	990	1033	1082	1131	1186	1235
-72.5°	709	740	777	819	838	850	880	917	966	1021	1070
-75°	611	654	673	697	709	703	703	715	764	832	893
-77.5°	501	532	556	581	575	569	556	544	587	642	697
-80°	391	416	440	459	459	440	422	397	440	495	550
-82.5°	300	318	330	342	342	330	318	300	336	373	416
-85°	202	220	226	238	232	220	214	202	226	251	281
-87.5°	104	110	116	116	116	110	104	98	110	122	135
-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°	153	153	153	153	147	153	153	159	165	147	128
85°	306	312	312	312	312	312	312	312	312	281	251
82.5°	459	477	489	507	520	520	514	507	495	446	391
80°	605	636	654	673	691	685	679	666	660	599	538
77.5°	752	789	813	832	850	856	850	850	844	789	721
75°	942	972	997	1021	1046	1058	1064	1064	1064	1015	954
72.5°	1113	1149	1186	1223	1253	1272	1290	1302	1315	1290	1253
70°	1290	1333	1376	1418	1461	1492	1516	1541	1553	1559	1559
67.5°	1473	1529	1584	1639	1687	1730	1761	1791	1816	1840	1853
65°	1675	1749	1816	1877	1932	1987	2030	2073	2109	2140	2158
62.5°	1901	1987	2067	2146	2207	2274	2342	2403	2452	2494	2525
60°	2152	2256	2354	2452	2550	2629	2715	2788	2849	2904	2953
57.5°	2433	2562	2684	2812	2922	3026	3130	3234	3326	3399	3460
55°	2745	2904	3063	3216	3369	3509	3644	3778	3901	3998	4084
52.5°	3106	3295	3497	3687	3895	4078	4249	4433	4598	4744	4867
50°	3491	3736	3998	4243	4512	4769	5001	5233	5466	5668	5833
47.5°	3943	4237	4579	4916	5246	5594	5918	6224	6542	6811	7037
45°	4433	4842	5246	5698	6114	6585	7031	7477	7869	8260	8590
42.5°	5013	5527	6041	6621	7190	7783	8413	8975	9562	10137	10614
40°	5704	6310	7019	7716	8504	9250	10143	10932	11677	12405	13022
37.5°	6462	7263	8138	9024	10094	11146	12191	13181	14068	14881	15529
35°	7337	8345	9385	10675	11946	13230	14429	15554	16562	17388	18073
32.5°	8339	9531	10968	12466	13940	15364	16795	17907	18959	19901	20708
30°	9403	10956	12631	14306	15914	17461	18904	20243	21466	22523	23428
27.5°	10650	12448	14313	16110	17834	19503	21142	22670	24009	25122	26247
25°	11885	13946	15939	17840	19705	21570	23373	25091	26656	28020	29236
22.5°	13188	15340	17443	19460	21576	23606	25580	27537	29334	30905	32275
20°	14392	16703	18849	21099	23392	25593	27812	29927	31933	33828	35387
17.5°	15468	17822	20163	22536	25036	27531	29939	32232	34519	36726	38670
15°	16428	18898	21301	23887	26583	29267	31951	34476	37050	39495	41672
12.5°	17278	19827	22383	25134	27952	30746	33687	36622	39477	42112	44472
10°	17981	20628	23367	26216	29145	32098	35265	38523	41580	44380	46948
7.5°	18513	21233	24095	27054	30141	33302	36610	39929	43164	46172	48862
5°	18892	21637	24578	27598	30814	34115	37643	41183	44484	47596	50347
2.5°	19234	21998	24993	27897	31174	34598	38132	41800	45175	48373	51436
0°	19326	22144	25171	28154	31339	34775	38377	41959	45420	48892	51772
-2.5°	19234	21998	24993	27897	31174	34598	38132	41800	45175	48373	51436
-5°	18892	21637	24578	27598	30814	34115	37643	41183	44484	47596	50347
-7.5°	18513	21233	24095	27054	30141	33302	36610	39929	43164	46172	48862
-10°	17981	20628	23367	26216	29145	32098	35265	38523	41580	44380	46948
-12.5°	17278	19827	22383	25134	27952	30746	33687	36622	39477	42112	44472
-15°	16428	18898	21301	23887	26583	29267	31951	34476	37050	39495	41672
-17.5°	15468	17822	20163	22536	25036	27531	29939	32232	34519	36726	38670
-20°	14392	16703	18849	21099	23392	25593	27812	29927	31933	33828	35387



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 CATALOG NUMBER: IFLD-L-SA7E-740-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13188	15340	17443	19460	21576	23606	25580	27537	29334	30905	32275
-25°	11885	13946	15939	17840	19705	21570	23373	25091	26656	28020	29236
-27.5°	10650	12448	14313	16110	17834	19503	21142	22670	24009	25122	26247
-30°	9403	10956	12631	14306	15914	17461	18904	20243	21466	22523	23428
-32.5°	8339	9531	10968	12466	13940	15364	16795	17907	18959	19901	20708
-35°	7337	8345	9385	10675	11946	13230	14429	15554	16562	17388	18073
-37.5°	6462	7263	8138	9024	10094	11146	12191	13181	14068	14881	15529
-40°	5704	6310	7019	7716	8504	9250	10143	10932	11677	12405	13022
-42.5°	5013	5527	6041	6621	7190	7783	8413	8975	9562	10137	10614
-45°	4433	4842	5246	5698	6114	6585	7031	7477	7869	8260	8590
-47.5°	3943	4237	4579	4916	5246	5594	5918	6224	6542	6811	7037
-50°	3491	3736	3998	4243	4512	4769	5001	5233	5466	5668	5833
-52.5°	3106	3295	3497	3687	3895	4078	4249	4433	4598	4744	4867
-55°	2745	2904	3063	3216	3369	3509	3644	3778	3901	3998	4084
-57.5°	2433	2562	2684	2812	2922	3026	3130	3234	3326	3399	3460
-60°	2152	2256	2354	2452	2550	2629	2715	2788	2849	2904	2953
-62.5°	1901	1987	2067	2146	2207	2274	2342	2403	2452	2494	2525
-65°	1675	1749	1816	1877	1932	1987	2030	2073	2109	2140	2158
-67.5°	1473	1529	1584	1639	1687	1730	1761	1791	1816	1840	1853
-70°	1290	1333	1376	1418	1461	1492	1516	1541	1553	1559	1559
-72.5°	1113	1149	1186	1223	1253	1272	1290	1302	1315	1290	1253
-75°	942	972	997	1021	1046	1058	1064	1064	1064	1015	954
-77.5°	752	789	813	832	850	856	850	850	844	789	721
-80°	605	636	654	673	691	685	679	666	660	599	538
-82.5°	459	477	489	507	520	520	514	507	495	446	391
-85°	306	312	312	312	312	312	312	312	312	281	251
-87.5°	153	153	153	153	147	153	153	159	165	147	128
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: IFLD-L-SA7E-740-U-66

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°	104	86	80	67	80	86	104	128	147	165	159
85°	214	177	171	159	171	177	214	251	281	312	312
82.5°	342	281	269	257	269	281	342	391	446	495	507
80°	483	410	397	385	397	410	483	538	599	660	666
77.5°	654	587	563	544	563	587	654	721	789	844	850
75°	887	819	801	783	801	819	887	954	1015	1064	1064
72.5°	1211	1180	1131	1088	1131	1180	1211	1253	1290	1315	1302
70°	1565	1577	1565	1547	1565	1577	1565	1559	1559	1553	1541
67.5°	1859	1871	1871	1877	1871	1871	1859	1853	1840	1816	1791
65°	2177	2183	2201	2207	2201	2183	2177	2158	2140	2109	2073
62.5°	2543	2562	2574	2574	2574	2562	2543	2525	2494	2452	2403
60°	2984	3008	3039	3045	3039	3008	2984	2953	2904	2849	2788
57.5°	3509	3540	3583	3595	3583	3540	3509	3460	3399	3326	3234
55°	4145	4188	4212	4200	4212	4188	4145	4084	3998	3901	3778
52.5°	4971	5044	5093	5068	5093	5044	4971	4867	4744	4598	4433
50°	5967	6059	6120	6102	6120	6059	5967	5833	5668	5466	5233
47.5°	7214	7343	7447	7453	7447	7343	7214	7037	6811	6542	6224
45°	8853	9042	9183	9159	9183	9042	8853	8590	8260	7869	7477
42.5°	10980	11243	11451	11433	11451	11243	10980	10614	10137	9562	8975
40°	13481	13805	14080	14154	14080	13805	13481	13022	12405	11677	10932
37.5°	16055	16471	16819	16782	16819	16471	16055	15529	14881	14068	13181
35°	18641	19075	19418	19448	19418	19075	18641	18073	17388	16562	15554
32.5°	21350	21833	22236	22291	22236	21833	21350	20708	19901	18959	17907
30°	24174	24755	25238	25336	25238	24755	24174	23428	22523	21466	20243
27.5°	27145	27836	28295	28472	28295	27836	27145	26247	25122	24009	22670
25°	30208	30960	31474	31761	31474	30960	30208	29236	28020	26656	25091
22.5°	33406	34299	34965	35283	34965	34299	33406	32275	30905	29334	27537
20°	36707	37680	38456	38786	38456	37680	36707	35387	33828	31933	29927
17.5°	40070	41256	42118	42540	42118	41256	40070	38670	36726	34519	32232
15°	43335	44594	45530	45982	45530	44594	43335	41672	39495	37050	34476
12.5°	46361	47694	48629	49284	48629	47694	46361	44472	42112	39477	36622
10°	49063	50519	51466	52145	51466	50519	49063	46948	44380	41580	38523
7.5°	51087	52927	53997	54664	53997	52927	51087	48862	46172	43164	39929
5°	52640	54670	55642	56272	55642	54670	52640	50347	47596	44484	41183
2.5°	53777	55379	56596	57225	56596	55379	53777	51436	48373	45175	41800
0°	54224	56107	56969	57378	56969	56107	54224	51772	48892	45420	41959
-2.5°	53777	55379	56596	57225	56596	55379	53777	51436	48373	45175	41800
-5°	52640	54670	55642	56272	55642	54670	52640	50347	47596	44484	41183
-7.5°	51087	52927	53997	54664	53997	52927	51087	48862	46172	43164	39929
-10°	49063	50519	51466	52145	51466	50519	49063	46948	44380	41580	38523
-12.5°	46361	47694	48629	49284	48629	47694	46361	44472	42112	39477	36622
-15°	43335	44594	45530	45982	45530	44594	43335	41672	39495	37050	34476
-17.5°	40070	41256	42118	42540	42118	41256	40070	38670	36726	34519	32232
-20°	36707	37680	38456	38786	38456	37680	36707	35387	33828	31933	29927



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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°	33406	34299	34965	35283	34965	34299	33406	32275	30905	29334	27537
-25°	30208	30960	31474	31761	31474	30960	30208	29236	28020	26656	25091
-27.5°	27145	27836	28295	28472	28295	27836	27145	26247	25122	24009	22670
-30°	24174	24755	25238	25336	25238	24755	24174	23428	22523	21466	20243
-32.5°	21350	21833	22236	22291	22236	21833	21350	20708	19901	18959	17907
-35°	18641	19075	19418	19448	19418	19075	18641	18073	17388	16562	15554
-37.5°	16055	16471	16819	16782	16819	16471	16055	15529	14881	14068	13181
-40°	13481	13805	14080	14154	14080	13805	13481	13022	12405	11677	10932
-42.5°	10980	11243	11451	11433	11451	11243	10980	10614	10137	9562	8975
-45°	8853	9042	9183	9159	9183	9042	8853	8590	8260	7869	7477
-47.5°	7214	7343	7447	7453	7447	7343	7214	7037	6811	6542	6224
-50°	5967	6059	6120	6102	6120	6059	5967	5833	5668	5466	5233
-52.5°	4971	5044	5093	5068	5093	5044	4971	4867	4744	4598	4433
-55°	4145	4188	4212	4200	4212	4188	4145	4084	3998	3901	3778
-57.5°	3509	3540	3583	3595	3583	3540	3509	3460	3399	3326	3234
-60°	2984	3008	3039	3045	3039	3008	2984	2953	2904	2849	2788
-62.5°	2543	2562	2574	2574	2574	2562	2543	2525	2494	2452	2403
-65°	2177	2183	2201	2207	2201	2183	2177	2158	2140	2109	2073
-67.5°	1859	1871	1871	1877	1871	1871	1859	1853	1840	1816	1791
-70°	1565	1577	1565	1547	1565	1577	1565	1559	1559	1553	1541
-72.5°	1211	1180	1131	1088	1131	1180	1211	1253	1290	1315	1302
-75°	887	819	801	783	801	819	887	954	1015	1064	1064
-77.5°	654	587	563	544	563	587	654	721	789	844	850
-80°	483	410	397	385	397	410	483	538	599	660	666
-82.5°	342	281	269	257	269	281	342	391	446	495	507
-85°	214	177	171	159	171	177	214	251	281	312	312
-87.5°	104	86	80	67	80	86	104	128	147	165	159
-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°	153	153	147	153	153	153	153	135	122	110	98
85°	312	312	312	312	312	312	306	281	251	226	202
82.5°	514	520	520	507	489	477	459	416	373	336	300
80°	679	685	691	673	654	636	605	550	495	440	397
77.5°	850	856	850	832	813	789	752	697	642	587	544
75°	1064	1058	1046	1021	997	972	942	893	832	764	715
72.5°	1290	1272	1253	1223	1186	1149	1113	1070	1021	966	917
70°	1516	1492	1461	1418	1376	1333	1290	1235	1186	1131	1082
67.5°	1761	1730	1687	1639	1584	1529	1473	1412	1351	1290	1235
65°	2030	1987	1932	1877	1816	1749	1675	1602	1535	1455	1388
62.5°	2342	2274	2207	2146	2067	1987	1901	1816	1730	1645	1553
60°	2715	2629	2550	2452	2354	2256	2152	2048	1938	1840	1730
57.5°	3130	3026	2922	2812	2684	2562	2433	2299	2177	2048	1920
55°	3644	3509	3369	3216	3063	2904	2745	2586	2433	2268	2128
52.5°	4249	4078	3895	3687	3497	3295	3106	2904	2715	2525	2342
50°	5001	4769	4512	4243	3998	3736	3491	3253	3020	2800	2580
47.5°	5918	5594	5246	4916	4579	4237	3943	3656	3363	3088	2843
45°	7031	6585	6114	5698	5246	4842	4433	4078	3736	3424	3112
42.5°	8413	7783	7190	6621	6041	5527	5013	4573	4157	3772	3424
40°	10143	9250	8504	7716	7019	6310	5704	5136	4622	4164	3736
37.5°	12191	11146	10094	9024	8138	7263	6462	5759	5142	4585	4090
35°	14429	13230	11946	10675	9385	8345	7337	6456	5704	5032	4457
32.5°	16795	15364	13940	12466	10968	9531	8339	7245	6303	5533	4854
30°	18904	17461	15914	14306	12631	10956	9403	8131	7013	6041	5258
27.5°	21142	19503	17834	16110	14313	12448	10650	9030	7722	6627	5704
25°	23373	21570	19705	17840	15939	13946	11885	10057	8504	7208	6102
22.5°	25580	23606	21576	19460	17443	15340	13188	11054	9226	7783	6566
20°	27812	25593	23392	21099	18849	16703	14392	12105	10076	8376	6994
17.5°	29939	27531	25036	22536	20163	17822	15468	13120	10858	8914	7422
15°	31951	29267	26583	23887	21301	18898	16428	14001	11598	9483	7795
12.5°	33687	30746	27952	25134	22383	19827	17278	14765	12295	10033	8174
10°	35265	32098	29145	26216	23367	20628	17981	15401	12864	10479	8480
7.5°	36610	33302	30141	27054	24095	21233	18513	15890	13304	10822	8718
5°	37643	34115	30814	27598	24578	21637	18892	16238	13616	11066	8871
2.5°	38132	34598	31174	27897	24993	21998	19234	16550	13878	11298	9036
0°	38377	34775	31339	28154	25171	22144	19326	16593	13872	11329	9049
-2.5°	38132	34598	31174	27897	24993	21998	19234	16550	13878	11298	9036
-5°	37643	34115	30814	27598	24578	21637	18892	16238	13616	11066	8871
-7.5°	36610	33302	30141	27054	24095	21233	18513	15890	13304	10822	8718
-10°	35265	32098	29145	26216	23367	20628	17981	15401	12864	10479	8480
-12.5°	33687	30746	27952	25134	22383	19827	17278	14765	12295	10033	8174
-15°	31951	29267	26583	23887	21301	18898	16428	14001	11598	9483	7795
-17.5°	29939	27531	25036	22536	20163	17822	15468	13120	10858	8914	7422
-20°	27812	25593	23392	21099	18849	16703	14392	12105	10076	8376	6994



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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°	25580	23606	21576	19460	17443	15340	13188	11054	9226	7783	6566
-25°	23373	21570	19705	17840	15939	13946	11885	10057	8504	7208	6102
-27.5°	21142	19503	17834	16110	14313	12448	10650	9030	7722	6627	5704
-30°	18904	17461	15914	14306	12631	10956	9403	8131	7013	6041	5258
-32.5°	16795	15364	13940	12466	10968	9531	8339	7245	6303	5533	4854
-35°	14429	13230	11946	10675	9385	8345	7337	6456	5704	5032	4457
-37.5°	12191	11146	10094	9024	8138	7263	6462	5759	5142	4585	4090
-40°	10143	9250	8504	7716	7019	6310	5704	5136	4622	4164	3736
-42.5°	8413	7783	7190	6621	6041	5527	5013	4573	4157	3772	3424
-45°	7031	6585	6114	5698	5246	4842	4433	4078	3736	3424	3112
-47.5°	5918	5594	5246	4916	4579	4237	3943	3656	3363	3088	2843
-50°	5001	4769	4512	4243	3998	3736	3491	3253	3020	2800	2580
-52.5°	4249	4078	3895	3687	3497	3295	3106	2904	2715	2525	2342
-55°	3644	3509	3369	3216	3063	2904	2745	2586	2433	2268	2128
-57.5°	3130	3026	2922	2812	2684	2562	2433	2299	2177	2048	1920
-60°	2715	2629	2550	2452	2354	2256	2152	2048	1938	1840	1730
-62.5°	2342	2274	2207	2146	2067	1987	1901	1816	1730	1645	1553
-65°	2030	1987	1932	1877	1816	1749	1675	1602	1535	1455	1388
-67.5°	1761	1730	1687	1639	1584	1529	1473	1412	1351	1290	1235
-70°	1516	1492	1461	1418	1376	1333	1290	1235	1186	1131	1082
-72.5°	1290	1272	1253	1223	1186	1149	1113	1070	1021	966	917
-75°	1064	1058	1046	1021	997	972	942	893	832	764	715
-77.5°	850	856	850	832	813	789	752	697	642	587	544
-80°	679	685	691	673	654	636	605	550	495	440	397
-82.5°	514	520	520	507	489	477	459	416	373	336	300
-85°	312	312	312	312	312	312	306	281	251	226	202
-87.5°	153	153	147	153	153	153	153	135	122	110	98
-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°	104	110	116	116	116	110	104	98	86	80	73
85°	214	220	232	238	226	220	202	190	177	159	147
82.5°	318	330	342	342	330	318	300	281	263	238	214
80°	422	440	459	459	440	416	391	367	342	312	281
77.5°	556	569	575	581	556	532	501	459	422	385	349
75°	703	703	709	697	673	654	611	563	507	459	410
72.5°	880	850	838	819	777	740	709	666	593	526	471
70°	1033	990	954	917	874	825	789	734	673	593	526
67.5°	1180	1125	1070	1021	966	917	862	795	728	654	581
65°	1327	1259	1192	1125	1064	1003	942	862	783	709	630
62.5°	1473	1394	1315	1235	1162	1088	1021	929	838	758	673
60°	1626	1541	1449	1357	1266	1180	1094	997	899	801	715
57.5°	1804	1681	1577	1473	1370	1272	1168	1064	960	856	752
55°	1981	1846	1712	1596	1480	1370	1247	1131	1015	905	789
52.5°	2170	2011	1865	1718	1590	1461	1333	1211	1076	954	813
50°	2378	2189	2018	1853	1700	1559	1418	1278	1137	1003	844
47.5°	2598	2378	2177	1987	1822	1651	1498	1351	1198	1058	874
45°	2843	2580	2342	2134	1932	1749	1584	1418	1259	1094	893
42.5°	3081	2794	2525	2268	2054	1846	1669	1492	1321	1125	923
40°	3363	3008	2708	2433	2177	1944	1742	1559	1382	1162	948
37.5°	3656	3246	2898	2580	2299	2048	1828	1620	1425	1198	972
35°	3950	3491	3088	2733	2427	2152	1908	1687	1467	1229	997
32.5°	4255	3736	3277	2886	2550	2256	1987	1749	1516	1266	1015
30°	4592	3992	3473	3033	2666	2348	2067	1810	1565	1296	1033
27.5°	4909	4231	3662	3191	2788	2446	2140	1871	1620	1327	1058
25°	5227	4488	3864	3338	2904	2531	2213	1926	1669	1363	1076
22.5°	5570	4738	4047	3479	3008	2617	2281	1987	1712	1400	1094
20°	5882	4964	4206	3613	3118	2702	2348	2036	1749	1437	1113
17.5°	6169	5197	4402	3754	3222	2782	2403	2079	1785	1467	1125
15°	6481	5429	4573	3876	3314	2849	2458	2122	1816	1498	1131
12.5°	6750	5625	4720	3986	3393	2904	2501	2152	1846	1529	1143
10°	6970	5784	4842	4072	3454	2953	2531	2183	1865	1547	1149
7.5°	7141	5906	4934	4139	3503	2990	2562	2201	1883	1565	1149
5°	7269	5998	4995	4188	3540	3020	2586	2219	1901	1590	1156
2.5°	7386	6096	5044	4231	3571	3045	2605	2232	1901	1584	1143
0°	7404	6114	5038	4231	3571	3051	2605	2232	1895	1577	1131
-2.5°	7386	6096	5044	4231	3571	3045	2605	2232	1901	1584	1143
-5°	7269	5998	4995	4188	3540	3020	2586	2219	1901	1590	1156
-7.5°	7141	5906	4934	4139	3503	2990	2562	2201	1883	1565	1149
-10°	6970	5784	4842	4072	3454	2953	2531	2183	1865	1547	1149
-12.5°	6750	5625	4720	3986	3393	2904	2501	2152	1846	1529	1143
-15°	6481	5429	4573	3876	3314	2849	2458	2122	1816	1498	1131
-17.5°	6169	5197	4402	3754	3222	2782	2403	2079	1785	1467	1125
-20°	5882	4964	4206	3613	3118	2702	2348	2036	1749	1437	1113



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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°	5570	4738	4047	3479	3008	2617	2281	1987	1712	1400	1094
-25°	5227	4488	3864	3338	2904	2531	2213	1926	1669	1363	1076
-27.5°	4909	4231	3662	3191	2788	2446	2140	1871	1620	1327	1058
-30°	4592	3992	3473	3033	2666	2348	2067	1810	1565	1296	1033
-32.5°	4255	3736	3277	2886	2550	2256	1987	1749	1516	1266	1015
-35°	3950	3491	3088	2733	2427	2152	1908	1687	1467	1229	997
-37.5°	3656	3246	2898	2580	2299	2048	1828	1620	1425	1198	972
-40°	3363	3008	2708	2433	2177	1944	1742	1559	1382	1162	948
-42.5°	3081	2794	2525	2268	2054	1846	1669	1492	1321	1125	923
-45°	2843	2580	2342	2134	1932	1749	1584	1418	1259	1094	893
-47.5°	2598	2378	2177	1987	1822	1651	1498	1351	1198	1058	874
-50°	2378	2189	2018	1853	1700	1559	1418	1278	1137	1003	844
-52.5°	2170	2011	1865	1718	1590	1461	1333	1211	1076	954	813
-55°	1981	1846	1712	1596	1480	1370	1247	1131	1015	905	789
-57.5°	1804	1681	1577	1473	1370	1272	1168	1064	960	856	752
-60°	1626	1541	1449	1357	1266	1180	1094	997	899	801	715
-62.5°	1473	1394	1315	1235	1162	1088	1021	929	838	758	673
-65°	1327	1259	1192	1125	1064	1003	942	862	783	709	630
-67.5°	1180	1125	1070	1021	966	917	862	795	728	654	581
-70°	1033	990	954	917	874	825	789	734	673	593	526
-72.5°	880	850	838	819	777	740	709	666	593	526	471
-75°	703	703	709	697	673	654	611	563	507	459	410
-77.5°	556	569	575	581	556	532	501	459	422	385	349
-80°	422	440	459	459	440	416	391	367	342	312	281
-82.5°	318	330	342	342	330	318	300	281	263	238	214
-85°	214	220	232	238	226	220	202	190	177	159	147
-87.5°	104	110	116	116	116	110	104	98	86	80	73
-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°	61	49	37	25	12	6	0
85°	128	98	67	43	25	12	0
82.5°	190	141	104	67	43	18	0
80°	251	190	135	92	55	25	0
77.5°	306	232	171	110	67	31	0
75°	355	269	202	135	80	37	0
72.5°	404	306	226	153	92	43	0
70°	452	342	251	177	104	49	0
67.5°	489	373	275	190	116	55	0
65°	520	404	294	202	128	55	0
62.5°	550	428	312	214	141	61	0
60°	587	452	336	226	147	67	0
57.5°	611	471	349	238	153	73	0
55°	636	495	361	251	165	80	0
52.5°	660	514	379	257	171	80	0
50°	679	532	391	263	177	86	0
47.5°	703	544	397	269	183	92	0
45°	721	563	410	275	190	92	0
42.5°	740	575	416	281	190	98	0
40°	758	581	428	294	196	104	0
37.5°	770	593	434	300	202	104	0
35°	777	599	440	306	208	110	0
32.5°	789	611	446	318	208	110	0
30°	807	611	446	324	214	110	0
27.5°	819	618	459	324	214	116	0
25°	825	618	465	330	220	116	0
22.5°	832	624	471	336	220	116	0
20°	838	630	477	342	226	122	0
17.5°	844	642	483	342	226	122	0
15°	856	648	483	342	226	128	0
12.5°	862	648	483	349	226	128	0
10°	868	654	483	349	232	122	0
7.5°	868	654	489	349	232	122	0
5°	868	660	483	349	226	122	0
2.5°	856	660	483	342	226	122	0
0°	850	654	477	342	226	122	0
-2.5°	856	660	483	342	226	122	0
-5°	868	660	483	349	226	122	0
-7.5°	868	654	489	349	232	122	0
-10°	868	654	483	349	232	122	0
-12.5°	862	648	483	349	226	128	0
-15°	856	648	483	342	226	128	0
-17.5°	844	642	483	342	226	122	0
-20°	838	630	477	342	226	122	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	832	624	471	336	220	116	0
-25°	825	618	465	330	220	116	0
-27.5°	819	618	459	324	214	116	0
-30°	807	611	446	324	214	110	0
-32.5°	789	611	446	318	208	110	0
-35°	777	599	440	306	208	110	0
-37.5°	770	593	434	300	202	104	0
-40°	758	581	428	294	196	104	0
-42.5°	740	575	416	281	190	98	0
-45°	721	563	410	275	190	92	0
-47.5°	703	544	397	269	183	92	0
-50°	679	532	391	263	177	86	0
-52.5°	660	514	379	257	171	80	0
-55°	636	495	361	251	165	80	0
-57.5°	611	471	349	238	153	73	0
-60°	587	452	336	226	147	67	0
-62.5°	550	428	312	214	141	61	0
-65°	520	404	294	202	128	55	0
-67.5°	489	373	275	190	116	55	0
-70°	452	342	251	177	104	49	0
-72.5°	404	306	226	153	92	43	0
-75°	355	269	202	135	80	37	0
-77.5°	306	232	171	110	67	31	0
-80°	251	190	135	92	55	25	0
-82.5°	190	141	104	67	43	18	0
-85°	128	98	67	43	25	12	0
-87.5°	61	49	37	25	12	6	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)