

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: P622273

Luminaire Tested: **IFLD-S-SA6D-760-U-66**

Issue Date: 09/20/2022

Test Information

Test Method: LM-79-2019
Report Number: P622273
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/20/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-760-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

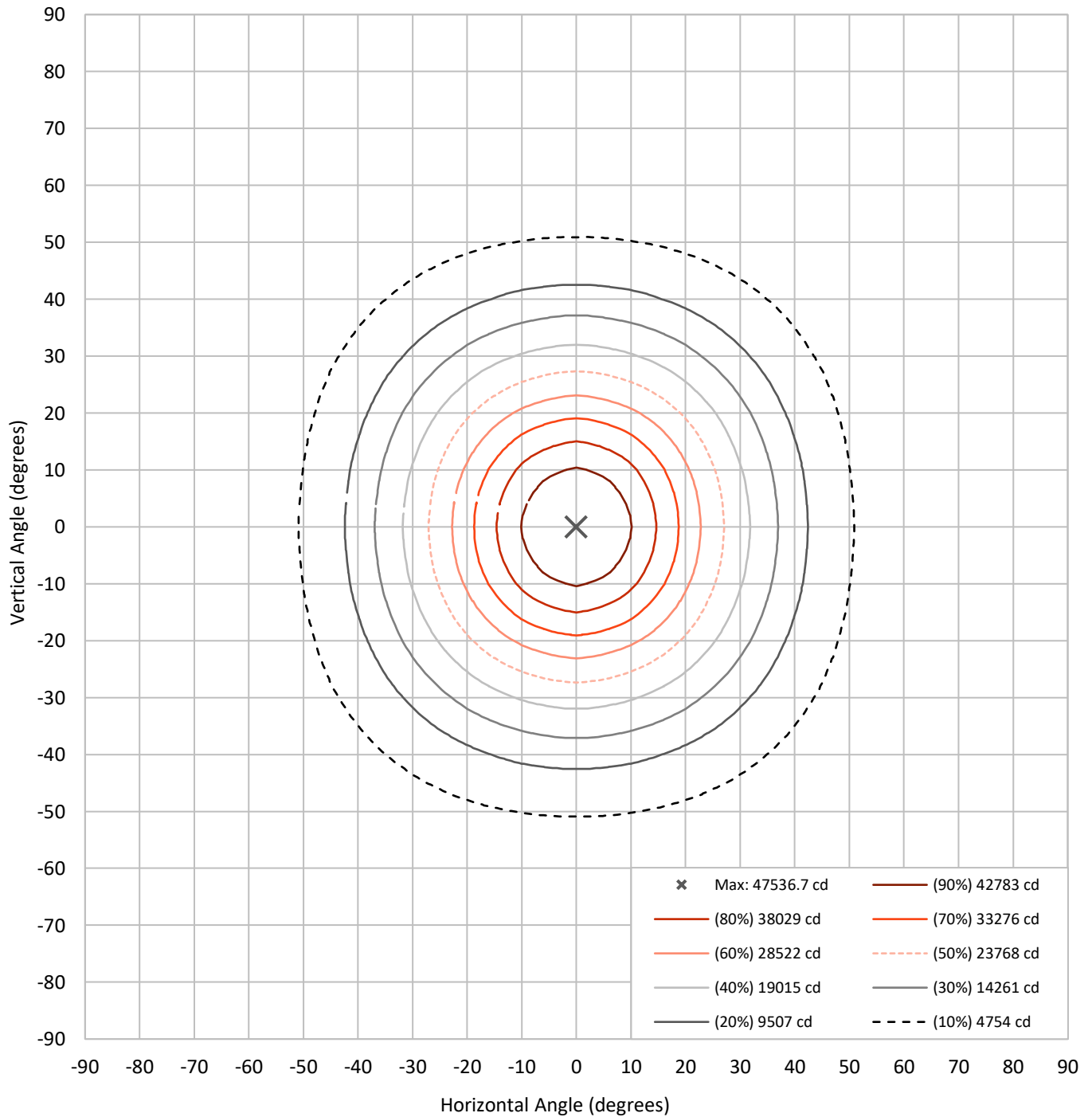
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	49303.4 lumens	Max Intensity:	47536.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	133.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	23705.2 lumens	Field Lumens:	43268.6 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%

Input Watts (W): 368.2
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





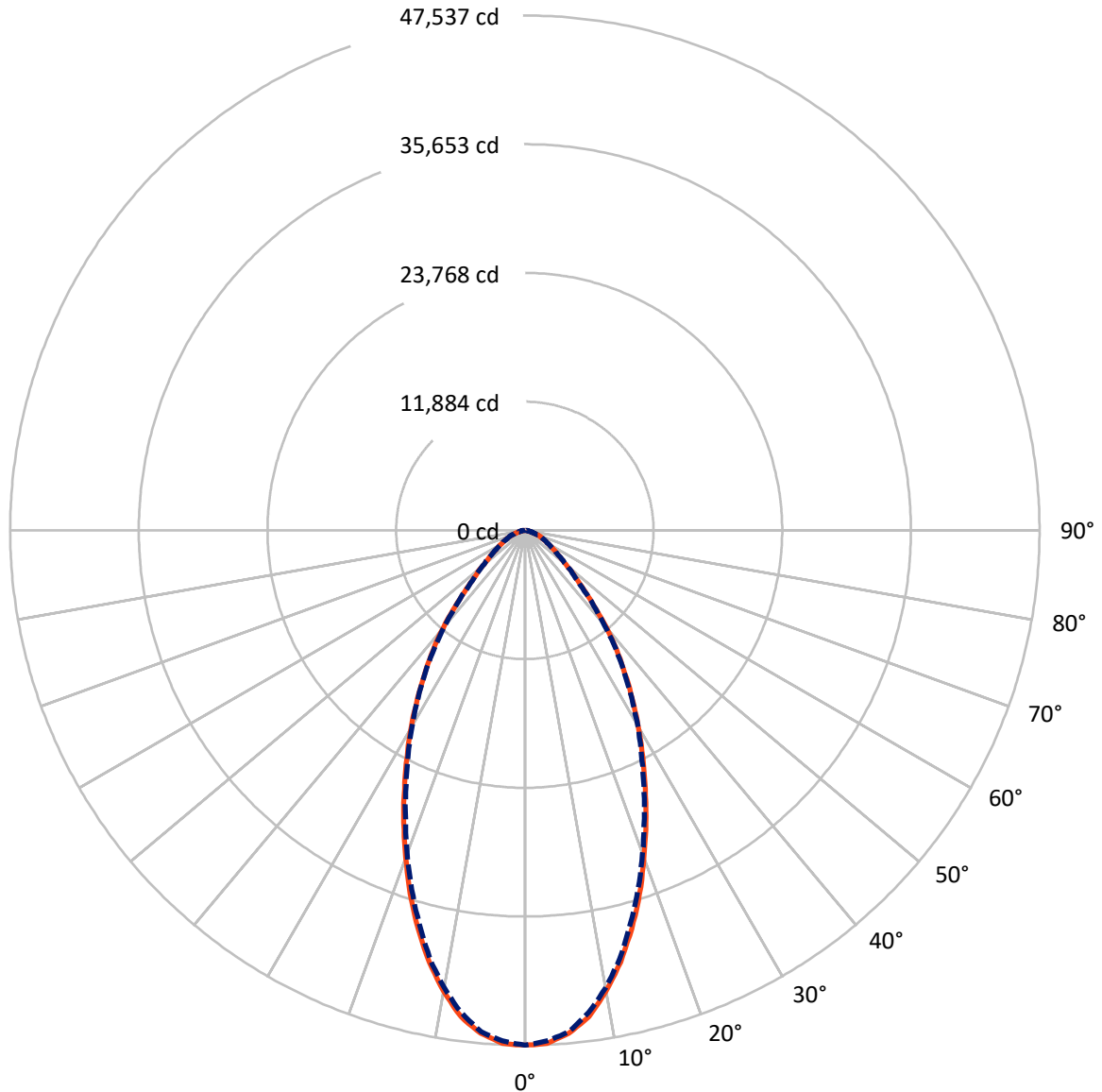
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Lumen Table

90	3.5	21.2	42.6	64.8	55.7	64.8	42.6	21.2	3.5							
80	3.5	21.2	42.6	64.8	55.7	64.8	42.6	21.2	3.5							
70	8.7	9.3	16.4	25.0	35.0	44.7	52.1	55.8	55.8	52.1	44.7	35.0	25.0	16.4	9.3	8.7
60		12.2	23.3	38.3	57.4	78.2	97.0	108.3	108.3	97.0	78.2	57.4	38.3	23.3	12.2	
50	11.6	15.3	31.3	56.4	93.7	143.6	197.7	234.5	234.5	197.7	143.6	93.7	56.4	31.3	15.3	11.6
40		18.3	40.4	81.3	155.9	275.7	400.9	478.8	478.8	400.9	275.7	155.9	81.3	40.4	18.3	
30	13.5	21.0	49.7	112.6	249.4	450.1	646.6	776.1	776.1	646.6	450.1	249.4	112.6	49.7	21.0	13.5
20		23.2	58.0	144.9	339.7	606.1	897.6	1108.3	1108.3	897.6	606.1	339.7	144.9	58.0	23.2	
10	14.1	24.4	62.9	166.2	392.2	703.1	1070.6	1345.6	1345.6	1070.6	703.1	392.2	166.2	62.9	24.4	14.1
0		24.4	62.9	166.2	392.2	703.1	1070.6	1345.6	1345.6	1070.6	703.1	392.2	166.2	62.9	24.4	
-10	13.5	23.2	58.0	144.9	339.7	606.1	897.6	1108.3	1108.3	897.6	606.1	339.7	144.9	58.0	23.2	13.5
-20		21.0	49.7	112.6	249.4	450.1	646.6	776.1	776.1	646.6	450.1	249.4	112.6	49.7	21.0	
-30	11.6	18.3	40.4	81.3	155.9	275.7	400.9	478.8	478.8	400.9	275.7	155.9	81.3	40.4	18.3	11.6
-40		15.3	31.3	56.4	93.7	143.6	197.7	234.5	234.5	197.7	143.6	93.7	56.4	31.3	15.3	
-50	8.7	12.2	23.3	38.3	57.4	78.2	97.0	108.3	108.3	97.0	78.2	57.4	38.3	23.3	12.2	8.7
-60		9.3	16.4	25.0	35.0	44.7	52.1	55.8	55.8	52.1	44.7	35.0	25.0	16.4	9.3	
-70	3.5	21.2	42.6	64.8	55.7	64.8	42.6	21.2	3.5							
-80		3.5	21.2	42.6	64.8	55.7	64.8	42.6	21.2	3.5						
-90	3.5	21.2	42.6	64.8	55.7	64.8	42.6	21.2	3.5							

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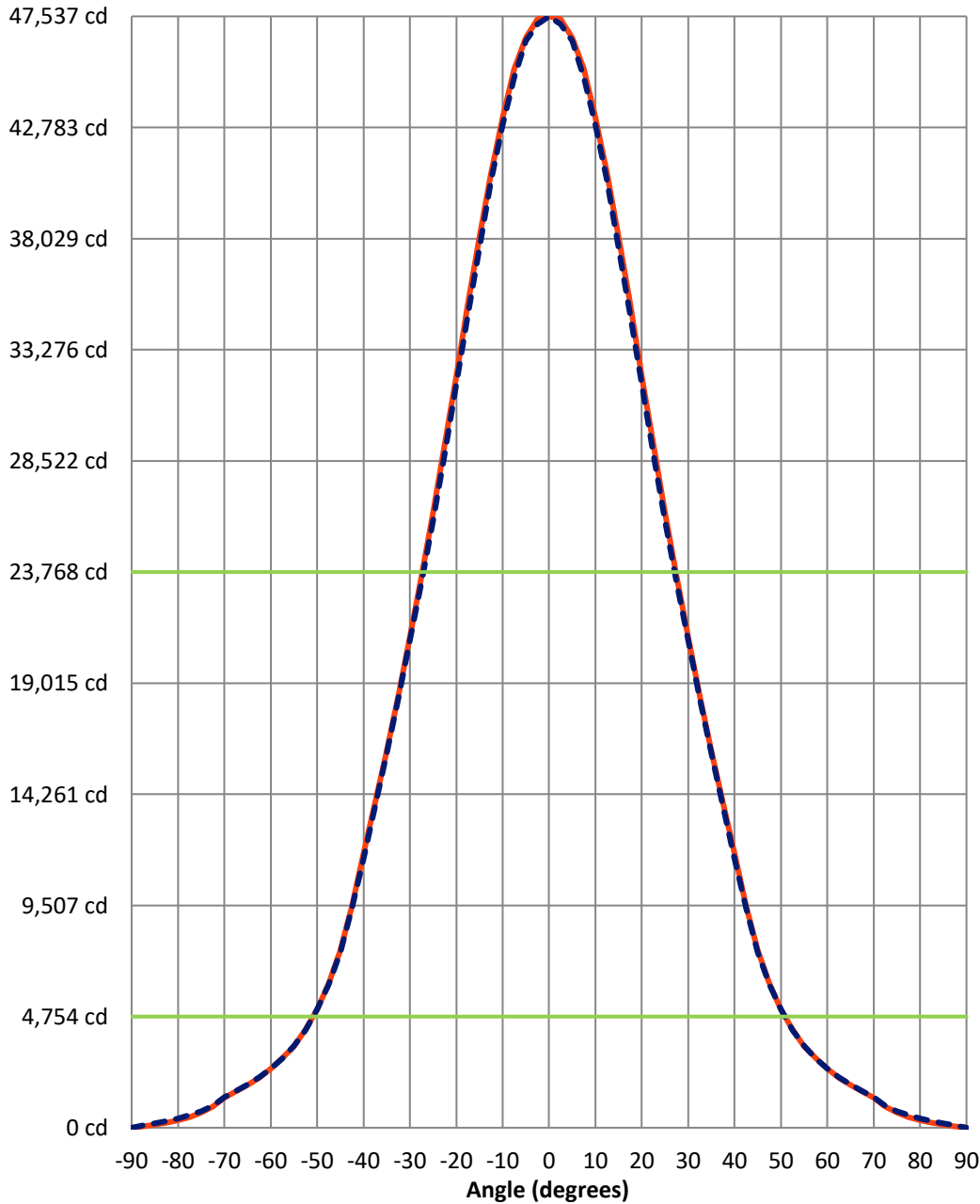
Luminous Intensity Polar Plot



— 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: 23705.2
Efficiency: 48.1%

Field:
H Angle: 101.7°
V Angle: 101.8°
Lumens: 43268.6
Efficiency: 87.8%

Spill:
Lumens: 6034.8
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	20	30	41	51	61	66	71	81
85°	0	10	20	36	56	81	106	122	132	147	157
82.5°	0	15	36	56	86	117	157	177	198	218	233
80°	0	20	46	76	111	157	208	233	258	284	304
77.5°	0	25	56	91	142	193	253	289	319	350	380
75°	0	30	66	111	167	223	294	339	380	420	466
72.5°	0	36	76	127	187	253	334	390	436	491	552
70°	0	41	86	147	208	284	375	436	491	557	608
67.5°	0	46	96	157	228	309	405	481	542	603	659
65°	0	46	106	167	243	334	431	522	588	648	714
62.5°	0	51	117	177	258	355	456	557	628	694	770
60°	0	56	122	187	279	375	486	593	664	745	826
57.5°	0	61	127	198	289	390	507	623	709	795	881
55°	0	66	137	208	299	410	527	653	750	841	937
52.5°	0	66	142	213	314	426	547	674	790	892	1003
50°	0	71	147	218	324	441	562	699	831	942	1059
47.5°	0	76	152	223	329	451	583	724	876	993	1119
45°	0	76	157	228	339	466	598	740	907	1043	1175
42.5°	0	81	157	233	344	476	613	765	932	1094	1236
40°	0	86	162	243	355	481	628	785	962	1145	1292
37.5°	0	86	167	248	360	491	638	805	993	1180	1342
35°	0	91	172	253	365	496	643	826	1018	1216	1398
32.5°	0	91	172	263	370	507	653	841	1049	1256	1449
30°	0	91	177	269	370	507	669	856	1074	1297	1499
27.5°	0	96	177	269	380	512	679	876	1099	1342	1550
25°	0	96	182	274	385	512	684	892	1130	1383	1596
22.5°	0	96	182	279	390	517	689	907	1160	1418	1646
20°	0	101	187	284	395	522	694	922	1190	1449	1687
17.5°	0	101	187	284	400	532	699	932	1216	1479	1722
15°	0	106	187	284	400	537	709	937	1241	1504	1758
12.5°	0	106	187	289	400	537	714	947	1266	1530	1783
10°	0	101	193	289	400	542	719	952	1282	1545	1808
7.5°	0	101	193	289	405	542	719	952	1297	1560	1824
5°	0	101	187	289	400	547	719	957	1317	1575	1839
2.5°	0	101	187	284	400	547	709	947	1312	1575	1849
0°	0	101	187	284	395	542	704	937	1307	1570	1849
-2.5°	0	101	187	284	400	547	709	947	1312	1575	1849
-5°	0	101	187	289	400	547	719	957	1317	1575	1839
-7.5°	0	101	193	289	405	542	719	952	1297	1560	1824
-10°	0	101	193	289	400	542	719	952	1282	1545	1808
-12.5°	0	106	187	289	400	537	714	947	1266	1530	1783
-15°	0	106	187	284	400	537	709	937	1241	1504	1758
-17.5°	0	101	187	284	400	532	699	932	1216	1479	1722
-20°	0	101	187	284	395	522	694	922	1190	1449	1687



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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	96	182	279	390	517	689	907	1160	1418	1646
-25°	0	96	182	274	385	512	684	892	1130	1383	1596
-27.5°	0	96	177	269	380	512	679	876	1099	1342	1550
-30°	0	91	177	269	370	507	669	856	1074	1297	1499
-32.5°	0	91	172	263	370	507	653	841	1049	1256	1449
-35°	0	91	172	253	365	496	643	826	1018	1216	1398
-37.5°	0	86	167	248	360	491	638	805	993	1180	1342
-40°	0	86	162	243	355	481	628	785	962	1145	1292
-42.5°	0	81	157	233	344	476	613	765	932	1094	1236
-45°	0	76	157	228	339	466	598	740	907	1043	1175
-47.5°	0	76	152	223	329	451	583	724	876	993	1119
-50°	0	71	147	218	324	441	562	699	831	942	1059
-52.5°	0	66	142	213	314	426	547	674	790	892	1003
-55°	0	66	137	208	299	410	527	653	750	841	937
-57.5°	0	61	127	198	289	390	507	623	709	795	881
-60°	0	56	122	187	279	375	486	593	664	745	826
-62.5°	0	51	117	177	258	355	456	557	628	694	770
-65°	0	46	106	167	243	334	431	522	588	648	714
-67.5°	0	46	96	157	228	309	405	481	542	603	659
-70°	0	41	86	147	208	284	375	436	491	557	608
-72.5°	0	36	76	127	187	253	334	390	436	491	552
-75°	0	30	66	111	167	223	294	339	380	420	466
-77.5°	0	25	56	91	142	193	253	289	319	350	380
-80°	0	20	46	76	111	157	208	233	258	284	304
-82.5°	0	15	36	56	86	117	157	177	198	218	233
-85°	0	10	20	36	56	81	106	122	132	147	157
-87.5°	0	5	10	20	30	41	51	61	66	71	81
-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°	86	91	96	96	96	91	86	81	91	101	111
85°	167	182	187	198	193	182	177	167	187	208	233
82.5°	248	263	274	284	284	274	263	248	279	309	344
80°	324	344	365	380	380	365	350	329	365	410	456
77.5°	415	441	461	481	476	471	461	451	486	532	577
75°	507	542	557	577	588	583	583	593	633	689	740
72.5°	588	613	643	679	694	704	729	760	800	846	886
70°	653	684	724	760	790	821	856	897	937	983	1023
67.5°	714	760	800	846	886	932	978	1023	1069	1119	1170
65°	780	831	881	932	988	1043	1099	1150	1206	1271	1327
62.5°	846	902	962	1023	1089	1155	1221	1287	1363	1433	1504
60°	907	978	1049	1125	1200	1276	1347	1433	1525	1606	1697
57.5°	967	1054	1135	1221	1307	1393	1494	1591	1697	1803	1905
55°	1033	1135	1226	1322	1418	1530	1641	1763	1879	2016	2143
52.5°	1104	1211	1317	1423	1545	1666	1798	1940	2092	2249	2406
50°	1175	1292	1408	1535	1672	1813	1970	2138	2320	2502	2695
47.5°	1241	1368	1509	1646	1803	1970	2153	2355	2558	2786	3029
45°	1312	1449	1601	1768	1940	2138	2355	2578	2837	3095	3379
42.5°	1383	1530	1702	1879	2092	2315	2553	2837	3125	3444	3789
40°	1444	1611	1803	2016	2244	2492	2786	3095	3449	3829	4255
37.5°	1515	1697	1905	2138	2401	2690	3029	3389	3799	4260	4771
35°	1580	1783	2011	2264	2558	2892	3272	3693	4169	4726	5349
32.5°	1646	1869	2112	2391	2715	3095	3525	4022	4584	5222	6002
30°	1712	1945	2208	2512	2877	3308	3804	4356	5004	5810	6737
27.5°	1773	2026	2310	2644	3034	3505	4067	4726	5491	6397	7481
25°	1834	2097	2406	2766	3201	3718	4331	5055	5972	7046	8332
22.5°	1889	2168	2492	2882	3353	3926	4614	5440	6448	7643	9158
20°	1945	2239	2583	2994	3485	4113	4873	5795	6939	8347	10029
17.5°	1991	2305	2669	3110	3647	4305	5111	6149	7385	8996	10870
15°	2036	2360	2745	3211	3789	4498	5369	6458	7856	9609	11599
12.5°	2072	2406	2811	3303	3910	4660	5592	6772	8312	10186	12232
10°	2097	2447	2862	3373	4012	4792	5774	7025	8682	10657	12759
7.5°	2122	2477	2902	3429	4088	4893	5916	7223	8965	11022	13164
5°	2143	2502	2933	3470	4138	4969	6023	7350	9168	11280	13453
2.5°	2158	2523	2958	3505	4179	5050	6119	7486	9360	11498	13711
0°	2158	2528	2958	3505	4174	5065	6134	7497	9386	11493	13747
-2.5°	2158	2523	2958	3505	4179	5050	6119	7486	9360	11498	13711
-5°	2143	2502	2933	3470	4138	4969	6023	7350	9168	11280	13453
-7.5°	2122	2477	2902	3429	4088	4893	5916	7223	8965	11022	13164
-10°	2097	2447	2862	3373	4012	4792	5774	7025	8682	10657	12759
-12.5°	2072	2406	2811	3303	3910	4660	5592	6772	8312	10186	12232
-15°	2036	2360	2745	3211	3789	4498	5369	6458	7856	9609	11599
-17.5°	1991	2305	2669	3110	3647	4305	5111	6149	7385	8996	10870
-20°	1945	2239	2583	2994	3485	4113	4873	5795	6939	8347	10029



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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°	1889	2168	2492	2882	3353	3926	4614	5440	6448	7643	9158
-25°	1834	2097	2406	2766	3201	3718	4331	5055	5972	7046	8332
-27.5°	1773	2026	2310	2644	3034	3505	4067	4726	5491	6397	7481
-30°	1712	1945	2208	2512	2877	3308	3804	4356	5004	5810	6737
-32.5°	1646	1869	2112	2391	2715	3095	3525	4022	4584	5222	6002
-35°	1580	1783	2011	2264	2558	2892	3272	3693	4169	4726	5349
-37.5°	1515	1697	1905	2138	2401	2690	3029	3389	3799	4260	4771
-40°	1444	1611	1803	2016	2244	2492	2786	3095	3449	3829	4255
-42.5°	1383	1530	1702	1879	2092	2315	2553	2837	3125	3444	3789
-45°	1312	1449	1601	1768	1940	2138	2355	2578	2837	3095	3379
-47.5°	1241	1368	1509	1646	1803	1970	2153	2355	2558	2786	3029
-50°	1175	1292	1408	1535	1672	1813	1970	2138	2320	2502	2695
-52.5°	1104	1211	1317	1423	1545	1666	1798	1940	2092	2249	2406
-55°	1033	1135	1226	1322	1418	1530	1641	1763	1879	2016	2143
-57.5°	967	1054	1135	1221	1307	1393	1494	1591	1697	1803	1905
-60°	907	978	1049	1125	1200	1276	1347	1433	1525	1606	1697
-62.5°	846	902	962	1023	1089	1155	1221	1287	1363	1433	1504
-65°	780	831	881	932	988	1043	1099	1150	1206	1271	1327
-67.5°	714	760	800	846	886	932	978	1023	1069	1119	1170
-70°	653	684	724	760	790	821	856	897	937	983	1023
-72.5°	588	613	643	679	694	704	729	760	800	846	886
-75°	507	542	557	577	588	583	583	593	633	689	740
-77.5°	415	441	461	481	476	471	461	451	486	532	577
-80°	324	344	365	380	380	365	350	329	365	410	456
-82.5°	248	263	274	284	284	274	263	248	279	309	344
-85°	167	182	187	198	193	182	177	167	187	208	233
-87.5°	86	91	96	96	96	91	86	81	91	101	111
-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°	127	127	127	127	122	127	127	132	137	122	106
85°	253	258	258	258	258	258	258	258	258	233	208
82.5°	380	395	405	420	431	431	426	420	410	370	324
80°	502	527	542	557	572	567	562	552	547	496	446
77.5°	623	653	674	689	704	709	704	704	699	653	598
75°	780	805	826	846	866	876	881	881	881	841	790
72.5°	922	952	983	1013	1038	1054	1069	1079	1089	1069	1038
70°	1069	1104	1140	1175	1211	1236	1256	1276	1287	1292	1292
67.5°	1221	1266	1312	1358	1398	1433	1459	1484	1504	1525	1535
65°	1388	1449	1504	1555	1601	1646	1682	1717	1748	1773	1788
62.5°	1575	1646	1712	1778	1829	1884	1940	1991	2031	2067	2092
60°	1783	1869	1950	2031	2112	2178	2249	2310	2360	2406	2447
57.5°	2016	2122	2224	2330	2421	2507	2593	2680	2756	2816	2867
55°	2274	2406	2538	2664	2791	2907	3019	3130	3232	3313	3384
52.5°	2573	2730	2897	3054	3227	3379	3520	3672	3809	3931	4032
50°	2892	3095	3313	3515	3738	3951	4143	4336	4528	4695	4832
47.5°	3267	3510	3794	4072	4346	4635	4903	5156	5420	5643	5830
45°	3672	4012	4346	4721	5065	5455	5825	6195	6519	6843	7117
42.5°	4153	4579	5004	5486	5957	6448	6970	7436	7922	8398	8793
40°	4726	5227	5815	6392	7046	7664	8403	9057	9675	10277	10789
37.5°	5354	6017	6742	7476	8363	9234	10100	10921	11655	12329	12866
35°	6078	6914	7775	8844	9897	10961	11954	12886	13722	14405	14973
32.5°	6909	7897	9087	10328	11549	12729	13914	14836	15707	16487	17156
30°	7790	9077	10465	11853	13185	14466	15662	16771	17784	18660	19410
27.5°	8824	10313	11858	13347	14775	16158	17515	18782	19891	20813	21745
25°	9847	11554	13205	14780	16325	17870	19364	20788	22084	23214	24222
22.5°	10926	12709	14451	16123	17875	19557	21193	22814	24303	25605	26739
20°	11923	13838	15616	17480	19379	21203	23042	24794	26455	28026	29317
17.5°	12815	14765	16705	18670	20742	22809	24804	26704	28598	30427	32037
15°	13610	15657	17647	19790	22023	24247	26471	28563	30695	32721	34524
12.5°	14314	16426	18544	20823	23158	25473	27909	30340	32706	34889	36844
10°	14897	17090	19359	21720	24146	26592	29216	31916	34448	36768	38896
7.5°	15337	17591	19962	22413	24971	27590	30330	33081	35760	38252	40481
5°	15651	17926	20362	22864	25529	28264	31186	34119	36854	39432	41712
2.5°	15935	18225	20706	23112	25827	28664	31592	34631	37427	40076	42613
0°	16011	18346	20853	23325	25964	28811	31794	34762	37629	40506	42892
-2.5°	15935	18225	20706	23112	25827	28664	31592	34631	37427	40076	42613
-5°	15651	17926	20362	22864	25529	28264	31186	34119	36854	39432	41712
-7.5°	15337	17591	19962	22413	24971	27590	30330	33081	35760	38252	40481
-10°	14897	17090	19359	21720	24146	26592	29216	31916	34448	36768	38896
-12.5°	14314	16426	18544	20823	23158	25473	27909	30340	32706	34889	36844
-15°	13610	15657	17647	19790	22023	24247	26471	28563	30695	32721	34524
-17.5°	12815	14765	16705	18670	20742	22809	24804	26704	28598	30427	32037
-20°	11923	13838	15616	17480	19379	21203	23042	24794	26455	28026	29317



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10926	12709	14451	16123	17875	19557	21193	22814	24303	25605	26739
-25°	9847	11554	13205	14780	16325	17870	19364	20788	22084	23214	24222
-27.5°	8824	10313	11858	13347	14775	16158	17515	18782	19891	20813	21745
-30°	7790	9077	10465	11853	13185	14466	15662	16771	17784	18660	19410
-32.5°	6909	7897	9087	10328	11549	12729	13914	14836	15707	16487	17156
-35°	6078	6914	7775	8844	9897	10961	11954	12886	13722	14405	14973
-37.5°	5354	6017	6742	7476	8363	9234	10100	10921	11655	12329	12866
-40°	4726	5227	5815	6392	7046	7664	8403	9057	9675	10277	10789
-42.5°	4153	4579	5004	5486	5957	6448	6970	7436	7922	8398	8793
-45°	3672	4012	4346	4721	5065	5455	5825	6195	6519	6843	7117
-47.5°	3267	3510	3794	4072	4346	4635	4903	5156	5420	5643	5830
-50°	2892	3095	3313	3515	3738	3951	4143	4336	4528	4695	4832
-52.5°	2573	2730	2897	3054	3227	3379	3520	3672	3809	3931	4032
-55°	2274	2406	2538	2664	2791	2907	3019	3130	3232	3313	3384
-57.5°	2016	2122	2224	2330	2421	2507	2593	2680	2756	2816	2867
-60°	1783	1869	1950	2031	2112	2178	2249	2310	2360	2406	2447
-62.5°	1575	1646	1712	1778	1829	1884	1940	1991	2031	2067	2092
-65°	1388	1449	1504	1555	1601	1646	1682	1717	1748	1773	1788
-67.5°	1221	1266	1312	1358	1398	1433	1459	1484	1504	1525	1535
-70°	1069	1104	1140	1175	1211	1236	1256	1276	1287	1292	1292
-72.5°	922	952	983	1013	1038	1054	1069	1079	1089	1069	1038
-75°	780	805	826	846	866	876	881	881	881	841	790
-77.5°	623	653	674	689	704	709	704	704	699	653	598
-80°	502	527	542	557	572	567	562	552	547	496	446
-82.5°	380	395	405	420	431	431	426	420	410	370	324
-85°	253	258	258	258	258	258	258	258	258	233	208
-87.5°	127	127	127	127	122	127	127	132	137	122	106
-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°	86	71	66	56	66	71	86	106	122	137	132
85°	177	147	142	132	142	147	177	208	233	258	258
82.5°	284	233	223	213	223	233	284	324	370	410	420
80°	400	339	329	319	329	339	400	446	496	547	552
77.5°	542	486	466	451	466	486	542	598	653	699	704
75°	735	679	664	648	664	679	735	790	841	881	881
72.5°	1003	978	937	902	937	978	1003	1038	1069	1089	1079
70°	1297	1307	1297	1282	1297	1307	1297	1292	1292	1287	1276
67.5°	1540	1550	1550	1555	1550	1550	1540	1535	1525	1504	1484
65°	1803	1808	1824	1829	1824	1808	1803	1788	1773	1748	1717
62.5°	2107	2122	2132	2132	2132	2122	2107	2092	2067	2031	1991
60°	2472	2492	2517	2523	2517	2492	2472	2447	2406	2360	2310
57.5°	2907	2933	2968	2978	2968	2933	2907	2867	2816	2756	2680
55°	3434	3470	3490	3480	3490	3470	3434	3384	3313	3232	3130
52.5°	4118	4179	4219	4199	4219	4179	4118	4032	3931	3809	3672
50°	4944	5020	5070	5055	5070	5020	4944	4832	4695	4528	4336
47.5°	5977	6083	6169	6175	6169	6083	5977	5830	5643	5420	5156
45°	7334	7491	7608	7588	7608	7491	7334	7117	6843	6519	6195
42.5°	9097	9315	9487	9472	9487	9315	9097	8793	8398	7922	7436
40°	11169	11437	11665	11726	11665	11437	11169	10789	10277	9675	9057
37.5°	13301	13646	13934	13904	13934	13646	13301	12866	12329	11655	10921
35°	15444	15803	16087	16112	16087	15803	15444	14973	14405	13722	12886
32.5°	17688	18088	18422	18468	18422	18088	17688	17156	16487	15707	14836
30°	20028	20509	20909	20990	20909	20509	20028	19410	18660	17784	16771
27.5°	22489	23062	23442	23589	23442	23062	22489	21745	20813	19891	18782
25°	25027	25650	26076	26314	26076	25650	25027	24222	23214	22084	20788
22.5°	27676	28416	28968	29231	28968	28416	27676	26739	25605	24303	22814
20°	30411	31217	31860	32134	31860	31217	30411	29317	28026	26455	24794
17.5°	33197	34180	34894	35244	34894	34180	33197	32037	30427	28598	26704
15°	35902	36945	37720	38095	37720	36945	35902	34524	32721	30695	28563
12.5°	38409	39513	40288	40830	40288	39513	38409	36844	34889	32706	30340
10°	40648	41854	42639	43201	42639	41854	40648	38896	36768	34448	31916
7.5°	42325	43849	44736	45288	44736	43849	42325	40481	38252	35760	33081
5°	43611	45293	46098	46620	46098	45293	43611	41712	39432	36854	34119
2.5°	44553	45880	46888	47410	46888	45880	44553	42613	40076	37427	34631
0°	44923	46483	47197	47537	47197	46483	44923	42892	40506	37629	34762
-2.5°	44553	45880	46888	47410	46888	45880	44553	42613	40076	37427	34631
-5°	43611	45293	46098	46620	46098	45293	43611	41712	39432	36854	34119
-7.5°	42325	43849	44736	45288	44736	43849	42325	40481	38252	35760	33081
-10°	40648	41854	42639	43201	42639	41854	40648	38896	36768	34448	31916
-12.5°	38409	39513	40288	40830	40288	39513	38409	36844	34889	32706	30340
-15°	35902	36945	37720	38095	37720	36945	35902	34524	32721	30695	28563
-17.5°	33197	34180	34894	35244	34894	34180	33197	32037	30427	28598	26704
-20°	30411	31217	31860	32134	31860	31217	30411	29317	28026	26455	24794



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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°	27676	28416	28968	29231	28968	28416	27676	26739	25605	24303	22814
-25°	25027	25650	26076	26314	26076	25650	25027	24222	23214	22084	20788
-27.5°	22489	23062	23442	23589	23442	23062	22489	21745	20813	19891	18782
-30°	20028	20509	20909	20990	20909	20509	20028	19410	18660	17784	16771
-32.5°	17688	18088	18422	18468	18422	18088	17688	17156	16487	15707	14836
-35°	15444	15803	16087	16112	16087	15803	15444	14973	14405	13722	12886
-37.5°	13301	13646	13934	13904	13934	13646	13301	12866	12329	11655	10921
-40°	11169	11437	11665	11726	11665	11437	11169	10789	10277	9675	9057
-42.5°	9097	9315	9487	9472	9487	9315	9097	8793	8398	7922	7436
-45°	7334	7491	7608	7588	7608	7491	7334	7117	6843	6519	6195
-47.5°	5977	6083	6169	6175	6169	6083	5977	5830	5643	5420	5156
-50°	4944	5020	5070	5055	5070	5020	4944	4832	4695	4528	4336
-52.5°	4118	4179	4219	4199	4219	4179	4118	4032	3931	3809	3672
-55°	3434	3470	3490	3480	3490	3470	3434	3384	3313	3232	3130
-57.5°	2907	2933	2968	2978	2968	2933	2907	2867	2816	2756	2680
-60°	2472	2492	2517	2523	2517	2492	2472	2447	2406	2360	2310
-62.5°	2107	2122	2132	2132	2132	2122	2107	2092	2067	2031	1991
-65°	1803	1808	1824	1829	1824	1808	1803	1788	1773	1748	1717
-67.5°	1540	1550	1550	1555	1550	1550	1540	1535	1525	1504	1484
-70°	1297	1307	1297	1282	1297	1307	1297	1292	1292	1287	1276
-72.5°	1003	978	937	902	937	978	1003	1038	1069	1089	1079
-75°	735	679	664	648	664	679	735	790	841	881	881
-77.5°	542	486	466	451	466	486	542	598	653	699	704
-80°	400	339	329	319	329	339	400	446	496	547	552
-82.5°	284	233	223	213	223	233	284	324	370	410	420
-85°	177	147	142	132	142	147	177	208	233	258	258
-87.5°	86	71	66	56	66	71	86	106	122	137	132
-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°	127	127	122	127	127	127	127	111	101	91	81
85°	258	258	258	258	258	258	253	233	208	187	167
82.5°	426	431	431	420	405	395	380	344	309	279	248
80°	562	567	572	557	542	527	502	456	410	365	329
77.5°	704	709	704	689	674	653	623	577	532	486	451
75°	881	876	866	846	826	805	780	740	689	633	593
72.5°	1069	1054	1038	1013	983	952	922	886	846	800	760
70°	1256	1236	1211	1175	1140	1104	1069	1023	983	937	897
67.5°	1459	1433	1398	1358	1312	1266	1221	1170	1119	1069	1023
65°	1682	1646	1601	1555	1504	1449	1388	1327	1271	1206	1150
62.5°	1940	1884	1829	1778	1712	1646	1575	1504	1433	1363	1287
60°	2249	2178	2112	2031	1950	1869	1783	1697	1606	1525	1433
57.5°	2593	2507	2421	2330	2224	2122	2016	1905	1803	1697	1591
55°	3019	2907	2791	2664	2538	2406	2274	2143	2016	1879	1763
52.5°	3520	3379	3227	3054	2897	2730	2573	2406	2249	2092	1940
50°	4143	3951	3738	3515	3313	3095	2892	2695	2502	2320	2138
47.5°	4903	4635	4346	4072	3794	3510	3267	3029	2786	2558	2355
45°	5825	5455	5065	4721	4346	4012	3672	3379	3095	2837	2578
42.5°	6970	6448	5957	5486	5004	4579	4153	3789	3444	3125	2837
40°	8403	7664	7046	6392	5815	5227	4726	4255	3829	3449	3095
37.5°	10100	9234	8363	7476	6742	6017	5354	4771	4260	3799	3389
35°	11954	10961	9897	8844	7775	6914	6078	5349	4726	4169	3693
32.5°	13914	12729	11549	10328	9087	7897	6909	6002	5222	4584	4022
30°	15662	14466	13185	11853	10465	9077	7790	6737	5810	5004	4356
27.5°	17515	16158	14775	13347	11858	10313	8824	7481	6397	5491	4726
25°	19364	17870	16325	14780	13205	11554	9847	8332	7046	5972	5055
22.5°	21193	19557	17875	16123	14451	12709	10926	9158	7643	6448	5440
20°	23042	21203	19379	17480	15616	13838	11923	10029	8347	6939	5795
17.5°	24804	22809	20742	18670	16705	14765	12815	10870	8996	7385	6149
15°	26471	24247	22023	19790	17647	15657	13610	11599	9609	7856	6458
12.5°	27909	25473	23158	20823	18544	16426	14314	12232	10186	8312	6772
10°	29216	26592	24146	21720	19359	17090	14897	12759	10657	8682	7025
7.5°	30330	27590	24971	22413	19962	17591	15337	13164	11022	8965	7223
5°	31186	28264	25529	22864	20362	17926	15651	13453	11280	9168	7350
2.5°	31592	28664	25827	23112	20706	18225	15935	13711	11498	9360	7486
0°	31794	28811	25964	23325	20853	18346	16011	13747	11493	9386	7497
-2.5°	31592	28664	25827	23112	20706	18225	15935	13711	11498	9360	7486
-5°	31186	28264	25529	22864	20362	17926	15651	13453	11280	9168	7350
-7.5°	30330	27590	24971	22413	19962	17591	15337	13164	11022	8965	7223
-10°	29216	26592	24146	21720	19359	17090	14897	12759	10657	8682	7025
-12.5°	27909	25473	23158	20823	18544	16426	14314	12232	10186	8312	6772
-15°	26471	24247	22023	19790	17647	15657	13610	11599	9609	7856	6458
-17.5°	24804	22809	20742	18670	16705	14765	12815	10870	8996	7385	6149
-20°	23042	21203	19379	17480	15616	13838	11923	10029	8347	6939	5795



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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°	21193	19557	17875	16123	14451	12709	10926	9158	7643	6448	5440
-25°	19364	17870	16325	14780	13205	11554	9847	8332	7046	5972	5055
-27.5°	17515	16158	14775	13347	11858	10313	8824	7481	6397	5491	4726
-30°	15662	14466	13185	11853	10465	9077	7790	6737	5810	5004	4356
-32.5°	13914	12729	11549	10328	9087	7897	6909	6002	5222	4584	4022
-35°	11954	10961	9897	8844	7775	6914	6078	5349	4726	4169	3693
-37.5°	10100	9234	8363	7476	6742	6017	5354	4771	4260	3799	3389
-40°	8403	7664	7046	6392	5815	5227	4726	4255	3829	3449	3095
-42.5°	6970	6448	5957	5486	5004	4579	4153	3789	3444	3125	2837
-45°	5825	5455	5065	4721	4346	4012	3672	3379	3095	2837	2578
-47.5°	4903	4635	4346	4072	3794	3510	3267	3029	2786	2558	2355
-50°	4143	3951	3738	3515	3313	3095	2892	2695	2502	2320	2138
-52.5°	3520	3379	3227	3054	2897	2730	2573	2406	2249	2092	1940
-55°	3019	2907	2791	2664	2538	2406	2274	2143	2016	1879	1763
-57.5°	2593	2507	2421	2330	2224	2122	2016	1905	1803	1697	1591
-60°	2249	2178	2112	2031	1950	1869	1783	1697	1606	1525	1433
-62.5°	1940	1884	1829	1778	1712	1646	1575	1504	1433	1363	1287
-65°	1682	1646	1601	1555	1504	1449	1388	1327	1271	1206	1150
-67.5°	1459	1433	1398	1358	1312	1266	1221	1170	1119	1069	1023
-70°	1256	1236	1211	1175	1140	1104	1069	1023	983	937	897
-72.5°	1069	1054	1038	1013	983	952	922	886	846	800	760
-75°	881	876	866	846	826	805	780	740	689	633	593
-77.5°	704	709	704	689	674	653	623	577	532	486	451
-80°	562	567	572	557	542	527	502	456	410	365	329
-82.5°	426	431	431	420	405	395	380	344	309	279	248
-85°	258	258	258	258	258	258	253	233	208	187	167
-87.5°	127	127	122	127	127	127	127	111	101	91	81
-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°	86	91	96	96	96	91	86	81	71	66	61
85°	177	182	193	198	187	182	167	157	147	132	122
82.5°	263	274	284	284	274	263	248	233	218	198	177
80°	350	365	380	380	365	344	324	304	284	258	233
77.5°	461	471	476	481	461	441	415	380	350	319	289
75°	583	583	588	577	557	542	507	466	420	380	339
72.5°	729	704	694	679	643	613	588	552	491	436	390
70°	856	821	790	760	724	684	653	608	557	491	436
67.5°	978	932	886	846	800	760	714	659	603	542	481
65°	1099	1043	988	932	881	831	780	714	648	588	522
62.5°	1221	1155	1089	1023	962	902	846	770	694	628	557
60°	1347	1276	1200	1125	1049	978	907	826	745	664	593
57.5°	1494	1393	1307	1221	1135	1054	967	881	795	709	623
55°	1641	1530	1418	1322	1226	1135	1033	937	841	750	653
52.5°	1798	1666	1545	1423	1317	1211	1104	1003	892	790	674
50°	1970	1813	1672	1535	1408	1292	1175	1059	942	831	699
47.5°	2153	1970	1803	1646	1509	1368	1241	1119	993	876	724
45°	2355	2138	1940	1768	1601	1449	1312	1175	1043	907	740
42.5°	2553	2315	2092	1879	1702	1530	1383	1236	1094	932	765
40°	2786	2492	2244	2016	1803	1611	1444	1292	1145	962	785
37.5°	3029	2690	2401	2138	1905	1697	1515	1342	1180	993	805
35°	3272	2892	2558	2264	2011	1783	1580	1398	1216	1018	826
32.5°	3525	3095	2715	2391	2112	1869	1646	1449	1256	1049	841
30°	3804	3308	2877	2512	2208	1945	1712	1499	1297	1074	856
27.5°	4067	3505	3034	2644	2310	2026	1773	1550	1342	1099	876
25°	4331	3718	3201	2766	2406	2097	1834	1596	1383	1130	892
22.5°	4614	3926	3353	2882	2492	2168	1889	1646	1418	1160	907
20°	4873	4113	3485	2994	2583	2239	1945	1687	1449	1190	922
17.5°	5111	4305	3647	3110	2669	2305	1991	1722	1479	1216	932
15°	5369	4498	3789	3211	2745	2360	2036	1758	1504	1241	937
12.5°	5592	4660	3910	3303	2811	2406	2072	1783	1530	1266	947
10°	5774	4792	4012	3373	2862	2447	2097	1808	1545	1282	952
7.5°	5916	4893	4088	3429	2902	2477	2122	1824	1560	1297	952
5°	6023	4969	4138	3470	2933	2502	2143	1839	1575	1317	957
2.5°	6119	5050	4179	3505	2958	2523	2158	1849	1575	1312	947
0°	6134	5065	4174	3505	2958	2528	2158	1849	1570	1307	937
-2.5°	6119	5050	4179	3505	2958	2523	2158	1849	1575	1312	947
-5°	6023	4969	4138	3470	2933	2502	2143	1839	1575	1317	957
-7.5°	5916	4893	4088	3429	2902	2477	2122	1824	1560	1297	952
-10°	5774	4792	4012	3373	2862	2447	2097	1808	1545	1282	952
-12.5°	5592	4660	3910	3303	2811	2406	2072	1783	1530	1266	947
-15°	5369	4498	3789	3211	2745	2360	2036	1758	1504	1241	937
-17.5°	5111	4305	3647	3110	2669	2305	1991	1722	1479	1216	932
-20°	4873	4113	3485	2994	2583	2239	1945	1687	1449	1190	922



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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°	4614	3926	3353	2882	2492	2168	1889	1646	1418	1160	907
-25°	4331	3718	3201	2766	2406	2097	1834	1596	1383	1130	892
-27.5°	4067	3505	3034	2644	2310	2026	1773	1550	1342	1099	876
-30°	3804	3308	2877	2512	2208	1945	1712	1499	1297	1074	856
-32.5°	3525	3095	2715	2391	2112	1869	1646	1449	1256	1049	841
-35°	3272	2892	2558	2264	2011	1783	1580	1398	1216	1018	826
-37.5°	3029	2690	2401	2138	1905	1697	1515	1342	1180	993	805
-40°	2786	2492	2244	2016	1803	1611	1444	1292	1145	962	785
-42.5°	2553	2315	2092	1879	1702	1530	1383	1236	1094	932	765
-45°	2355	2138	1940	1768	1601	1449	1312	1175	1043	907	740
-47.5°	2153	1970	1803	1646	1509	1368	1241	1119	993	876	724
-50°	1970	1813	1672	1535	1408	1292	1175	1059	942	831	699
-52.5°	1798	1666	1545	1423	1317	1211	1104	1003	892	790	674
-55°	1641	1530	1418	1322	1226	1135	1033	937	841	750	653
-57.5°	1494	1393	1307	1221	1135	1054	967	881	795	709	623
-60°	1347	1276	1200	1125	1049	978	907	826	745	664	593
-62.5°	1221	1155	1089	1023	962	902	846	770	694	628	557
-65°	1099	1043	988	932	881	831	780	714	648	588	522
-67.5°	978	932	886	846	800	760	714	659	603	542	481
-70°	856	821	790	760	724	684	653	608	557	491	436
-72.5°	729	704	694	679	643	613	588	552	491	436	390
-75°	583	583	588	577	557	542	507	466	420	380	339
-77.5°	461	471	476	481	461	441	415	380	350	319	289
-80°	350	365	380	380	365	344	324	304	284	258	233
-82.5°	263	274	284	284	274	263	248	233	218	198	177
-85°	177	182	193	198	187	182	167	157	147	132	122
-87.5°	86	91	96	96	96	91	86	81	71	66	61
-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°	51	41	30	20	10	5	0
85°	106	81	56	36	20	10	0
82.5°	157	117	86	56	36	15	0
80°	208	157	111	76	46	20	0
77.5°	253	193	142	91	56	25	0
75°	294	223	167	111	66	30	0
72.5°	334	253	187	127	76	36	0
70°	375	284	208	147	86	41	0
67.5°	405	309	228	157	96	46	0
65°	431	334	243	167	106	46	0
62.5°	456	355	258	177	117	51	0
60°	486	375	279	187	122	56	0
57.5°	507	390	289	198	127	61	0
55°	527	410	299	208	137	66	0
52.5°	547	426	314	213	142	66	0
50°	562	441	324	218	147	71	0
47.5°	583	451	329	223	152	76	0
45°	598	466	339	228	157	76	0
42.5°	613	476	344	233	157	81	0
40°	628	481	355	243	162	86	0
37.5°	638	491	360	248	167	86	0
35°	643	496	365	253	172	91	0
32.5°	653	507	370	263	172	91	0
30°	669	507	370	269	177	91	0
27.5°	679	512	380	269	177	96	0
25°	684	512	385	274	182	96	0
22.5°	689	517	390	279	182	96	0
20°	694	522	395	284	187	101	0
17.5°	699	532	400	284	187	101	0
15°	709	537	400	284	187	106	0
12.5°	714	537	400	289	187	106	0
10°	719	542	400	289	193	101	0
7.5°	719	542	405	289	193	101	0
5°	719	547	400	289	187	101	0
2.5°	709	547	400	284	187	101	0
0°	704	542	395	284	187	101	0
-2.5°	709	547	400	284	187	101	0
-5°	719	547	400	289	187	101	0
-7.5°	719	542	405	289	193	101	0
-10°	719	542	400	289	193	101	0
-12.5°	714	537	400	289	187	106	0
-15°	709	537	400	284	187	106	0
-17.5°	699	532	400	284	187	101	0
-20°	694	522	395	284	187	101	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	689	517	390	279	182	96	0
-25°	684	512	385	274	182	96	0
-27.5°	679	512	380	269	177	96	0
-30°	669	507	370	269	177	91	0
-32.5°	653	507	370	263	172	91	0
-35°	643	496	365	253	172	91	0
-37.5°	638	491	360	248	167	86	0
-40°	628	481	355	243	162	86	0
-42.5°	613	476	344	233	157	81	0
-45°	598	466	339	228	157	76	0
-47.5°	583	451	329	223	152	76	0
-50°	562	441	324	218	147	71	0
-52.5°	547	426	314	213	142	66	0
-55°	527	410	299	208	137	66	0
-57.5°	507	390	289	198	127	61	0
-60°	486	375	279	187	122	56	0
-62.5°	456	355	258	177	117	51	0
-65°	431	334	243	167	106	46	0
-67.5°	405	309	228	157	96	46	0
-70°	375	284	208	147	86	41	0
-72.5°	334	253	187	127	76	36	0
-75°	294	223	167	111	66	30	0
-77.5°	253	193	142	91	56	25	0
-80°	208	157	111	76	46	20	0
-82.5°	157	117	86	56	36	15	0
-85°	106	81	56	36	20	10	0
-87.5°	51	41	30	20	10	5	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)