

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: EPHESUS

Report Number: P621397

Luminaire Tested: **EPH-VN-07-E-760-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P621397
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-760-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

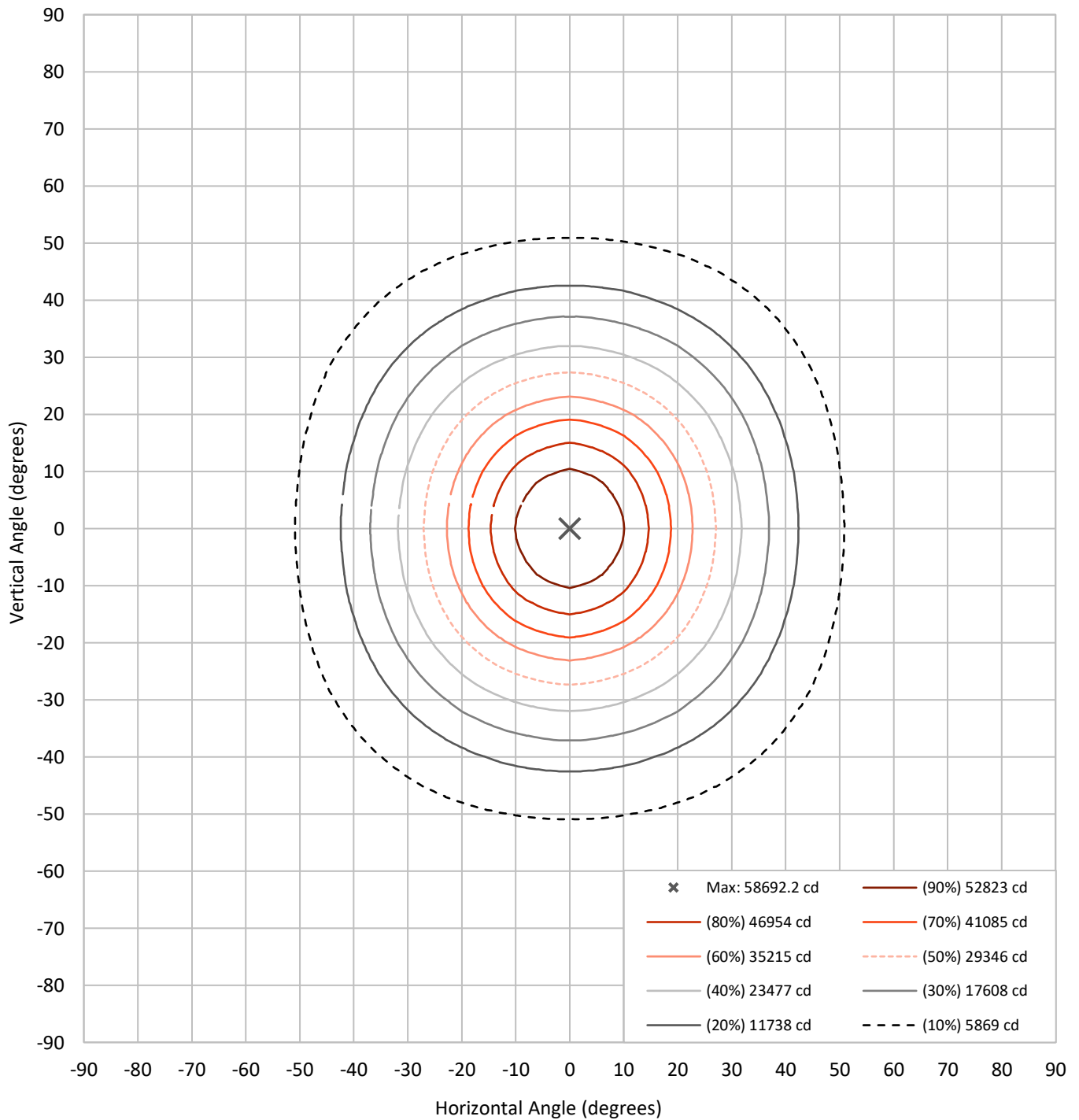
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	60873.5 lumens	Max Intensity:	58692.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	29268.1 lumens	Field Lumens:	53422.4 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





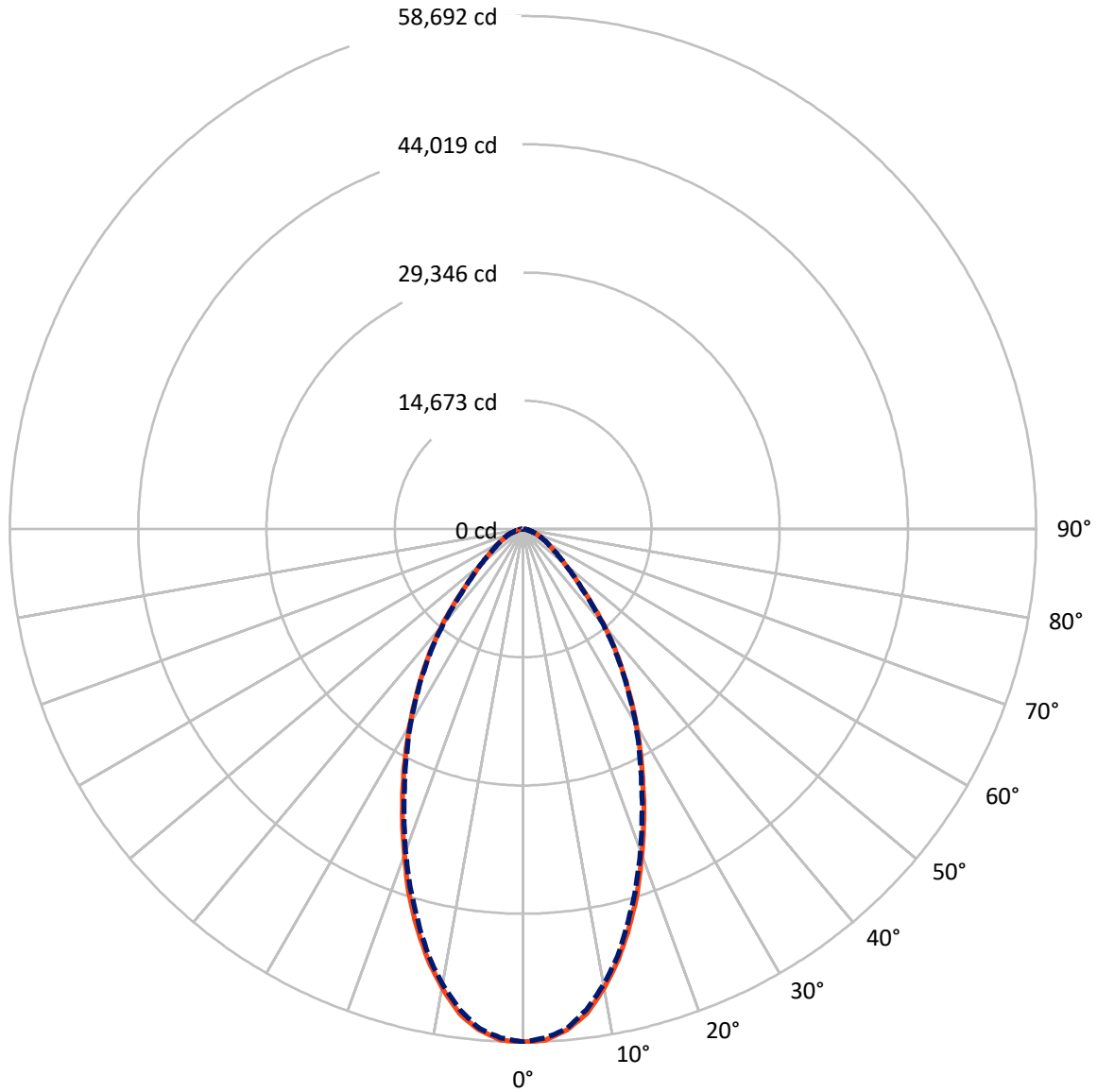
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Lumen Table

90																			
80	4.3	26.1		52.6		80.0		68.7		80.0		52.6		26.1		4.3			
70																			
60	10.7	11.4	20.3	30.9	43.2	55.2	64.3	68.9	68.9	64.3	55.2	43.2	30.9	20.3	11.4	10.7			
50		15.1	28.8	47.3	70.9	96.6	119.7	133.7	133.7	119.7	96.6	70.9	47.3	28.8	15.1				
40	14.4	18.9	38.6	69.7	115.6	177.3	244.1	289.6	289.6	244.1	177.3	115.6	69.7	38.6	18.9	14.4			
30		22.5	49.9	100.3	192.4	340.4	495.0	591.1	591.1	495.0	340.4	192.4	100.3	49.9	22.5				
20	16.6	25.9	61.3	139.0	308.0	555.8	798.4	958.2	958.2	798.4	555.8	308.0	139.0	61.3	25.9	16.6			
10		28.6	71.6	178.9	419.5	748.4	1108.3	1368.4	1368.4	1108.3	748.4	419.5	178.9	71.6	28.6				
0	17.4	30.1	77.7	205.1	484.2	868.0	1321.9	1661.4	1661.4	1321.9	868.0	484.2	205.1	77.7	30.1	17.4			
-10		30.1	77.7	205.1	484.2	868.0	1321.9	1661.4	1661.4	1321.9	868.0	484.2	205.1	77.7	30.1				
-20	16.6	28.6	71.6	178.9	419.5	748.4	1108.3	1368.4	1368.4	1108.3	748.4	419.5	178.9	71.6	28.6	16.6			
-30		25.9	61.3	139.0	308.0	555.8	798.4	958.2	958.2	798.4	555.8	308.0	139.0	61.3	25.9				
-40	14.4	22.5	49.9	100.3	192.4	340.4	495.0	591.1	591.1	495.0	340.4	192.4	100.3	49.9	22.5	14.4			
-50		18.9	38.6	69.7	115.6	177.3	244.1	289.6	289.6	244.1	177.3	115.6	69.7	38.6	18.9				
-60	10.7	15.1	28.8	47.3	70.9	96.6	119.7	133.7	133.7	119.7	96.6	70.9	47.3	28.8	15.1	10.7			
-70		11.4	20.3	30.9	43.2	55.2	64.3	68.9	68.9	64.3	55.2	43.2	30.9	20.3	11.4				
-80																			
-90	4.3	26.1		52.6		80.0		68.7		80.0		52.6		26.1		4.3			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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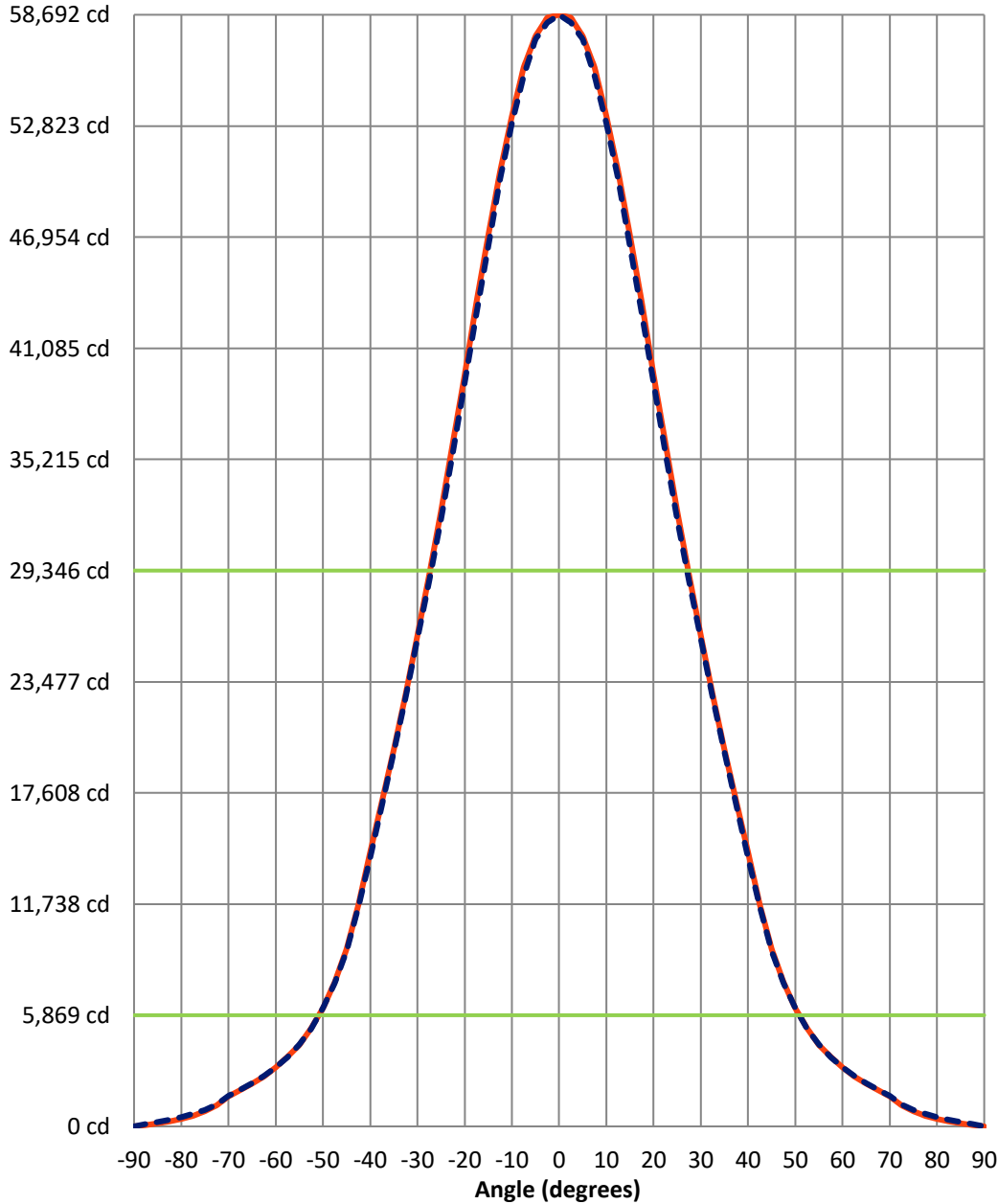
Luminous Intensity Polar Plot



— 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: 29268.1
Efficiency: 48.1%

Field:
H Angle: 101.7°
V Angle: 101.8°
Lumens: 53422.4
Efficiency: 87.8%

Spill:
Lumens: 7451
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	13	25	38	50	63	75	81	88	100
85°	0	13	25	44	69	100	131	150	163	181	194
82.5°	0	19	44	69	106	144	194	219	244	269	288
80°	0	25	56	94	138	194	256	288	319	350	375
77.5°	0	31	69	113	175	238	313	357	394	432	469
75°	0	38	81	138	206	275	363	419	469	519	575
72.5°	0	44	94	156	231	313	413	482	538	607	682
70°	0	50	106	181	256	350	463	538	607	688	751
67.5°	0	56	119	194	281	382	500	594	669	744	813
65°	0	56	131	206	300	413	532	644	725	801	882
62.5°	0	63	144	219	319	438	563	688	776	857	951
60°	0	69	150	231	344	463	600	732	819	919	1019
57.5°	0	75	156	244	357	482	625	769	876	982	1088
55°	0	81	169	256	369	507	650	807	926	1038	1157
52.5°	0	81	175	263	388	525	675	832	976	1101	1238
50°	0	88	181	269	400	544	694	863	1026	1163	1307
47.5°	0	94	188	275	407	557	719	894	1082	1226	1382
45°	0	94	194	281	419	575	738	913	1119	1288	1451
42.5°	0	100	194	288	425	588	757	944	1151	1351	1526
40°	0	106	200	300	438	594	776	969	1188	1413	1595
37.5°	0	106	206	306	444	607	788	994	1226	1457	1657
35°	0	113	213	313	450	613	794	1019	1257	1501	1726
32.5°	0	113	213	325	457	625	807	1038	1295	1551	1789
30°	0	113	219	332	457	625	826	1057	1326	1601	1851
27.5°	0	119	219	332	469	632	838	1082	1357	1657	1914
25°	0	119	225	338	475	632	844	1101	1395	1707	1970
22.5°	0	119	225	344	482	638	851	1119	1432	1751	2033
20°	0	125	231	350	488	644	857	1138	1470	1789	2083
17.5°	0	125	231	350	494	657	863	1151	1501	1826	2126
15°	0	131	231	350	494	663	876	1157	1532	1857	2170
12.5°	0	131	231	357	494	663	882	1170	1564	1889	2201
10°	0	125	238	357	494	669	888	1176	1582	1907	2233
7.5°	0	125	238	357	500	669	888	1176	1601	1926	2251
5°	0	125	231	357	494	675	888	1182	1626	1945	2270
2.5°	0	125	231	350	494	675	876	1170	1620	1945	2283
0°	0	125	231	350	494	675	876	1170	1620	1945	2283
-2.5°	0	125	231	350	494	675	876	1170	1620	1945	2283
-5°	0	125	231	357	494	675	888	1182	1626	1945	2270
-7.5°	0	125	238	357	500	669	888	1176	1601	1926	2251
-10°	0	125	238	357	494	669	888	1176	1582	1907	2233
-12.5°	0	131	231	357	494	663	882	1170	1564	1889	2201
-15°	0	131	231	350	494	663	876	1157	1532	1857	2170
-17.5°	0	125	231	350	494	657	863	1151	1501	1826	2126
-20°	0	125	231	350	488	644	857	1138	1470	1789	2083



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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	119	225	344	482	638	851	1119	1432	1751	2033
-25°	0	119	225	338	475	632	844	1101	1395	1707	1970
-27.5°	0	119	219	332	469	632	838	1082	1357	1657	1914
-30°	0	113	219	332	457	625	826	1057	1326	1601	1851
-32.5°	0	113	213	325	457	625	807	1038	1295	1551	1789
-35°	0	113	213	313	450	613	794	1019	1257	1501	1726
-37.5°	0	106	206	306	444	607	788	994	1226	1457	1657
-40°	0	106	200	300	438	594	776	969	1188	1413	1595
-42.5°	0	100	194	288	425	588	757	944	1151	1351	1526
-45°	0	94	194	281	419	575	738	913	1119	1288	1451
-47.5°	0	94	188	275	407	557	719	894	1082	1226	1382
-50°	0	88	181	269	400	544	694	863	1026	1163	1307
-52.5°	0	81	175	263	388	525	675	832	976	1101	1238
-55°	0	81	169	256	369	507	650	807	926	1038	1157
-57.5°	0	75	156	244	357	482	625	769	876	982	1088
-60°	0	69	150	231	344	463	600	732	819	919	1019
-62.5°	0	63	144	219	319	438	563	688	776	857	951
-65°	0	56	131	206	300	413	532	644	725	801	882
-67.5°	0	56	119	194	281	382	500	594	669	744	813
-70°	0	50	106	181	256	350	463	538	607	688	751
-72.5°	0	44	94	156	231	313	413	482	538	607	682
-75°	0	38	81	138	206	275	363	419	469	519	575
-77.5°	0	31	69	113	175	238	313	357	394	432	469
-80°	0	25	56	94	138	194	256	288	319	350	375
-82.5°	0	19	44	69	106	144	194	219	244	269	288
-85°	0	13	25	44	69	100	131	150	163	181	194
-87.5°	0	6	13	25	38	50	63	75	81	88	100
-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°	106	113	119	119	119	113	106	100	113	125	138
85°	206	225	231	244	238	225	219	206	231	256	288
82.5°	306	325	338	350	350	338	325	306	344	382	425
80°	400	425	450	469	469	450	432	407	450	507	563
77.5°	513	544	569	594	588	582	569	557	600	657	713
75°	625	669	688	713	725	719	719	732	782	851	913
72.5°	725	757	794	838	857	869	901	938	988	1044	1094
70°	807	844	894	938	976	1013	1057	1107	1157	1213	1263
67.5°	882	938	988	1044	1094	1151	1207	1263	1320	1382	1445
65°	963	1026	1088	1151	1220	1288	1357	1420	1488	1570	1639
62.5°	1044	1113	1188	1263	1345	1426	1507	1589	1682	1770	1857
60°	1119	1207	1295	1388	1482	1576	1664	1770	1882	1983	2095
57.5°	1195	1301	1401	1507	1614	1720	1845	1964	2095	2226	2351
55°	1276	1401	1513	1632	1751	1889	2026	2176	2320	2489	2645
52.5°	1363	1495	1626	1757	1907	2058	2220	2395	2583	2777	2971
50°	1451	1595	1739	1895	2064	2239	2433	2639	2864	3089	3327
47.5°	1532	1689	1864	2033	2226	2433	2658	2908	3158	3440	3740
45°	1620	1789	1976	2183	2395	2639	2908	3183	3502	3821	4171
42.5°	1707	1889	2101	2320	2583	2858	3152	3502	3859	4253	4678
40°	1782	1989	2226	2489	2770	3077	3440	3821	4259	4728	5253
37.5°	1870	2095	2351	2639	2964	3321	3740	4184	4690	5260	5891
35°	1951	2201	2483	2796	3158	3571	4040	4559	5147	5835	6604
32.5°	2033	2308	2608	2952	3352	3821	4353	4966	5660	6448	7411
30°	2114	2402	2727	3102	3552	4084	4697	5378	6179	7173	8318
27.5°	2189	2502	2852	3265	3746	4328	5022	5835	6779	7899	9237
25°	2264	2589	2971	3415	3952	4590	5347	6241	7373	8699	10288
22.5°	2333	2677	3077	3558	4140	4847	5697	6717	7961	9437	11307
20°	2402	2764	3190	3696	4303	5078	6016	7154	8568	10306	12383
17.5°	2458	2846	3296	3840	4503	5316	6310	7592	9118	11107	13421
15°	2514	2914	3390	3965	4678	5553	6629	7974	9700	11864	14321
12.5°	2558	2971	3471	4078	4828	5754	6904	8361	10263	12576	15103
10°	2589	3021	3533	4165	4953	5916	7129	8674	10719	13158	15753
7.5°	2620	3058	3583	4234	5047	6041	7305	8918	11069	13608	16254
5°	2645	3089	3621	4284	5109	6135	7436	9074	11319	13927	16610
2.5°	2664	3114	3652	4328	5159	6235	7555	9243	11557	14196	16929
0°	2664	3121	3652	4328	5153	6254	7573	9256	11588	14190	16973
-2.5°	2664	3114	3652	4328	5159	6235	7555	9243	11557	14196	16929
-5°	2645	3089	3621	4284	5109	6135	7436	9074	11319	13927	16610
-7.5°	2620	3058	3583	4234	5047	6041	7305	8918	11069	13608	16254
-10°	2589	3021	3533	4165	4953	5916	7129	8674	10719	13158	15753
-12.5°	2558	2971	3471	4078	4828	5754	6904	8361	10263	12576	15103
-15°	2514	2914	3390	3965	4678	5553	6629	7974	9700	11864	14321
-17.5°	2458	2846	3296	3840	4503	5316	6310	7592	9118	11107	13421
-20°	2402	2764	3190	3696	4303	5078	6016	7154	8568	10306	12383



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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°	2333	2677	3077	3558	4140	4847	5697	6717	7961	9437	11307
-25°	2264	2589	2971	3415	3952	4590	5347	6241	7373	8699	10288
-27.5°	2189	2502	2852	3265	3746	4328	5022	5835	6779	7899	9237
-30°	2114	2402	2727	3102	3552	4084	4697	5378	6179	7173	8318
-32.5°	2033	2308	2608	2952	3352	3821	4353	4966	5660	6448	7411
-35°	1951	2201	2483	2796	3158	3571	4040	4559	5147	5835	6604
-37.5°	1870	2095	2351	2639	2964	3321	3740	4184	4690	5260	5891
-40°	1782	1989	2226	2489	2770	3077	3440	3821	4259	4728	5253
-42.5°	1707	1889	2101	2320	2583	2858	3152	3502	3859	4253	4678
-45°	1620	1789	1976	2183	2395	2639	2908	3183	3502	3821	4171
-47.5°	1532	1689	1864	2033	2226	2433	2658	2908	3158	3440	3740
-50°	1451	1595	1739	1895	2064	2239	2433	2639	2864	3089	3327
-52.5°	1363	1495	1626	1757	1907	2058	2220	2395	2583	2777	2971
-55°	1276	1401	1513	1632	1751	1889	2026	2176	2320	2489	2645
-57.5°	1195	1301	1401	1507	1614	1720	1845	1964	2095	2226	2351
-60°	1119	1207	1295	1388	1482	1576	1664	1770	1882	1983	2095
-62.5°	1044	1113	1188	1263	1345	1426	1507	1589	1682	1770	1857
-65°	963	1026	1088	1151	1220	1288	1357	1420	1488	1570	1639
-67.5°	882	938	988	1044	1094	1151	1207	1263	1320	1382	1445
-70°	807	844	894	938	976	1013	1057	1107	1157	1213	1263
-72.5°	725	757	794	838	857	869	901	938	988	1044	1094
-75°	625	669	688	713	725	719	719	732	782	851	913
-77.5°	513	544	569	594	588	582	569	557	600	657	713
-80°	400	425	450	469	469	450	432	407	450	507	563
-82.5°	306	325	338	350	350	338	325	306	344	382	425
-85°	206	225	231	244	238	225	219	206	231	256	288
-87.5°	106	113	119	119	119	113	106	100	113	125	138
-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°	156	156	156	156	150	156	156	163	169	150	131
85°	313	319	319	319	319	319	319	319	319	288	256
82.5°	469	488	500	519	532	532	525	519	507	457	400
80°	619	650	669	688	707	700	694	682	675	613	550
77.5°	769	807	832	851	869	876	869	869	863	807	738
75°	963	994	1019	1044	1069	1082	1088	1088	1088	1038	976
72.5°	1138	1176	1213	1251	1282	1301	1320	1332	1345	1320	1282
70°	1320	1363	1407	1451	1495	1526	1551	1576	1589	1595	1595
67.5°	1507	1564	1620	1676	1726	1770	1801	1832	1857	1882	1895
65°	1714	1789	1857	1920	1976	2033	2076	2120	2158	2189	2208
62.5°	1945	2033	2114	2195	2258	2326	2395	2458	2508	2552	2583
60°	2201	2308	2408	2508	2608	2689	2777	2852	2914	2971	3021
57.5°	2489	2620	2745	2877	2989	3096	3202	3308	3402	3477	3540
55°	2808	2971	3133	3290	3446	3590	3727	3865	3990	4090	4178
52.5°	3177	3371	3577	3771	3984	4171	4346	4534	4703	4853	4978
50°	3571	3821	4090	4340	4615	4878	5116	5353	5591	5797	5966
47.5°	4034	4334	4684	5028	5366	5722	6054	6366	6692	6967	7198
45°	4534	4953	5366	5829	6254	6735	7192	7648	8049	8449	8787
42.5°	5128	5654	6179	6773	7355	7961	8605	9181	9781	10369	10857
40°	5835	6454	7179	7892	8699	9462	10375	11182	11945	12689	13321
37.5°	6610	7430	8324	9231	10325	11401	12470	13483	14390	15222	15885
35°	7505	8537	9600	10919	12220	13533	14759	15910	16942	17786	18486
32.5°	8530	9750	11219	12752	14259	15716	17179	18318	19393	20356	21182
30°	9618	11207	12920	14634	16279	17861	19337	20706	21957	23039	23965
27.5°	10894	12733	14640	16479	18242	19950	21626	23189	24559	25697	26848
25°	12157	14265	16304	18249	20156	22064	23908	25666	27267	28661	29906
22.5°	13490	15691	17842	19906	22070	24146	26166	28167	30006	31613	33014
20°	14722	17086	19281	21582	23927	26179	28449	30613	32664	34602	36197
17.5°	15822	18230	20625	23052	25609	28161	30625	32970	35309	37567	39556
15°	16804	19331	21788	24434	27192	29937	32683	35265	37898	40400	42626
12.5°	17673	20281	22895	25710	28593	31451	34459	37460	40381	43076	45490
10°	18393	21100	23902	26816	29812	32833	36072	39405	42532	45397	48023
7.5°	18937	21720	24646	27673	30831	34065	37448	40844	44152	47229	49981
5°	19324	22132	25140	28230	31519	34896	38505	42126	45503	48686	51500
2.5°	19675	22501	25566	28536	31888	35390	39005	42757	46210	49480	52614
0°	19768	22651	25747	28799	32057	35572	39255	42920	46460	50012	52957
-2.5°	19675	22501	25566	28536	31888	35390	39005	42757	46210	49480	52614
-5°	19324	22132	25140	28230	31519	34896	38505	42126	45503	48686	51500
-7.5°	18937	21720	24646	27673	30831	34065	37448	40844	44152	47229	49981
-10°	18393	21100	23902	26816	29812	32833	36072	39405	42532	45397	48023
-12.5°	17673	20281	22895	25710	28593	31451	34459	37460	40381	43076	45490
-15°	16804	19331	21788	24434	27192	29937	32683	35265	37898	40400	42626
-17.5°	15822	18230	20625	23052	25609	28161	30625	32970	35309	37567	39556
-20°	14722	17086	19281	21582	23927	26179	28449	30613	32664	34602	36197



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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°	13490	15691	17842	19906	22070	24146	26166	28167	30006	31613	33014
-25°	12157	14265	16304	18249	20156	22064	23908	25666	27267	28661	29906
-27.5°	10894	12733	14640	16479	18242	19950	21626	23189	24559	25697	26848
-30°	9618	11207	12920	14634	16279	17861	19337	20706	21957	23039	23965
-32.5°	8530	9750	11219	12752	14259	15716	17179	18318	19393	20356	21182
-35°	7505	8537	9600	10919	12220	13533	14759	15910	16942	17786	18486
-37.5°	6610	7430	8324	9231	10325	11401	12470	13483	14390	15222	15885
-40°	5835	6454	7179	7892	8699	9462	10375	11182	11945	12689	13321
-42.5°	5128	5654	6179	6773	7355	7961	8605	9181	9781	10369	10857
-45°	4534	4953	5366	5829	6254	6735	7192	7648	8049	8449	8787
-47.5°	4034	4334	4684	5028	5366	5722	6054	6366	6692	6967	7198
-50°	3571	3821	4090	4340	4615	4878	5116	5353	5591	5797	5966
-52.5°	3177	3371	3577	3771	3984	4171	4346	4534	4703	4853	4978
-55°	2808	2971	3133	3290	3446	3590	3727	3865	3990	4090	4178
-57.5°	2489	2620	2745	2877	2989	3096	3202	3308	3402	3477	3540
-60°	2201	2308	2408	2508	2608	2689	2777	2852	2914	2971	3021
-62.5°	1945	2033	2114	2195	2258	2326	2395	2458	2508	2552	2583
-65°	1714	1789	1857	1920	1976	2033	2076	2120	2158	2189	2208
-67.5°	1507	1564	1620	1676	1726	1770	1801	1832	1857	1882	1895
-70°	1320	1363	1407	1451	1495	1526	1551	1576	1589	1595	1595
-72.5°	1138	1176	1213	1251	1282	1301	1320	1332	1345	1320	1282
-75°	963	994	1019	1044	1069	1082	1088	1088	1088	1038	976
-77.5°	769	807	832	851	869	876	869	869	863	807	738
-80°	619	650	669	688	707	700	694	682	675	613	550
-82.5°	469	488	500	519	532	532	525	519	507	457	400
-85°	313	319	319	319	319	319	319	319	319	288	256
-87.5°	156	156	156	156	150	156	156	163	169	150	131
-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°	106	88	81	69	81	88	106	131	150	169	163
85°	219	181	175	163	175	181	219	256	288	319	319
82.5°	350	288	275	263	275	288	350	400	457	507	519
80°	494	419	407	394	407	419	494	550	613	675	682
77.5°	669	600	575	557	575	600	669	738	807	863	869
75°	907	838	819	801	819	838	907	976	1038	1088	1088
72.5°	1238	1207	1157	1113	1157	1207	1238	1282	1320	1345	1332
70°	1601	1614	1601	1582	1601	1614	1601	1595	1595	1589	1576
67.5°	1901	1914	1914	1920	1914	1914	1901	1895	1882	1857	1832
65°	2226	2233	2251	2258	2251	2233	2226	2208	2189	2158	2120
62.5°	2602	2620	2633	2633	2633	2620	2602	2583	2552	2508	2458
60°	3052	3077	3108	3114	3108	3077	3052	3021	2971	2914	2852
57.5°	3590	3621	3665	3677	3665	3621	3590	3540	3477	3402	3308
55°	4240	4284	4309	4296	4309	4284	4240	4178	4090	3990	3865
52.5°	5084	5159	5209	5184	5209	5159	5084	4978	4853	4703	4534
50°	6104	6198	6260	6241	6260	6198	6104	5966	5797	5591	5353
47.5°	7380	7511	7617	7623	7617	7511	7380	7198	6967	6692	6366
45°	9056	9249	9393	9368	9393	9249	9056	8787	8449	8049	7648
42.5°	11232	11501	11713	11695	11713	11501	11232	10857	10369	9781	9181
40°	13790	14121	14403	14478	14403	14121	13790	13321	12689	11945	11182
37.5°	16423	16848	17204	17167	17204	16848	16423	15885	15222	14390	13483
35°	19068	19512	19862	19893	19862	19512	19068	18486	17786	16942	15910
32.5°	21838	22332	22745	22802	22745	22332	21838	21182	20356	19393	18318
30°	24728	25322	25816	25916	25816	25322	24728	23965	23039	21957	20706
27.5°	27767	28474	28943	29124	28943	28474	27767	26848	25697	24559	23189
25°	30900	31669	32195	32489	32195	31669	30900	29906	28661	27267	25666
22.5°	34171	35084	35766	36091	35766	35084	34171	33014	31613	30006	28167
20°	37548	38542	39337	39674	39337	38542	37548	36197	34602	32664	30613
17.5°	40988	42201	43083	43514	43083	42201	40988	39556	37567	35309	32970
15°	44327	45615	46572	47035	46572	45615	44327	42626	40400	37898	35265
12.5°	47423	48786	49743	50412	49743	48786	47423	45490	43076	40381	37460
10°	50187	51675	52645	53339	52645	51675	50187	48023	45397	42532	39405
7.5°	52257	54139	55234	55916	55234	54139	52257	49981	47229	44152	40844
5°	53846	55922	56916	57560	56916	55922	53846	51500	48686	45503	42126
2.5°	55009	56647	57892	58536	57892	56647	55009	52614	49480	46210	42757
0°	55465	57391	58273	58692	58273	57391	55465	52957	50012	46460	42920
-2.5°	55009	56647	57892	58536	57892	56647	55009	52614	49480	46210	42757
-5°	53846	55922	56916	57560	56916	55922	53846	51500	48686	45503	42126
-7.5°	52257	54139	55234	55916	55234	54139	52257	49981	47229	44152	40844
-10°	50187	51675	52645	53339	52645	51675	50187	48023	45397	42532	39405
-12.5°	47423	48786	49743	50412	49743	48786	47423	45490	43076	40381	37460
-15°	44327	45615	46572	47035	46572	45615	44327	42626	40400	37898	35265
-17.5°	40988	42201	43083	43514	43083	42201	40988	39556	37567	35309	32970
-20°	37548	38542	39337	39674	39337	38542	37548	36197	34602	32664	30613



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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°	34171	35084	35766	36091	35766	35084	34171	33014	31613	30006	28167
-25°	30900	31669	32195	32489	32195	31669	30900	29906	28661	27267	25666
-27.5°	27767	28474	28943	29124	28943	28474	27767	26848	25697	24559	23189
-30°	24728	25322	25816	25916	25816	25322	24728	23965	23039	21957	20706
-32.5°	21838	22332	22745	22802	22745	22332	21838	21182	20356	19393	18318
-35°	19068	19512	19862	19893	19862	19512	19068	18486	17786	16942	15910
-37.5°	16423	16848	17204	17167	17204	16848	16423	15885	15222	14390	13483
-40°	13790	14121	14403	14478	14403	14121	13790	13321	12689	11945	11182
-42.5°	11232	11501	11713	11695	11713	11501	11232	10857	10369	9781	9181
-45°	9056	9249	9393	9368	9393	9249	9056	8787	8449	8049	7648
-47.5°	7380	7511	7617	7623	7617	7511	7380	7198	6967	6692	6366
-50°	6104	6198	6260	6241	6260	6198	6104	5966	5797	5591	5353
-52.5°	5084	5159	5209	5184	5209	5159	5084	4978	4853	4703	4534
-55°	4240	4284	4309	4296	4309	4284	4240	4178	4090	3990	3865
-57.5°	3590	3621	3665	3677	3665	3621	3590	3540	3477	3402	3308
-60°	3052	3077	3108	3114	3108	3077	3052	3021	2971	2914	2852
-62.5°	2602	2620	2633	2633	2633	2620	2602	2583	2552	2508	2458
-65°	2226	2233	2251	2258	2251	2233	2226	2208	2189	2158	2120
-67.5°	1901	1914	1914	1920	1914	1914	1901	1895	1882	1857	1832
-70°	1601	1614	1601	1582	1601	1614	1601	1595	1595	1589	1576
-72.5°	1238	1207	1157	1113	1157	1207	1238	1282	1320	1345	1332
-75°	907	838	819	801	819	838	907	976	1038	1088	1088
-77.5°	669	600	575	557	575	600	669	738	807	863	869
-80°	494	419	407	394	407	419	494	550	613	675	682
-82.5°	350	288	275	263	275	288	350	400	457	507	519
-85°	219	181	175	163	175	181	219	256	288	319	319
-87.5°	106	88	81	69	81	88	106	131	150	169	163
-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°	156	156	150	156	156	156	156	138	125	113	100
85°	319	319	319	319	319	319	313	288	256	231	206
82.5°	525	532	532	519	500	488	469	425	382	344	306
80°	694	700	707	688	669	650	619	563	507	450	407
77.5°	869	876	869	851	832	807	769	713	657	600	557
75°	1088	1082	1069	1044	1019	994	963	913	851	782	732
72.5°	1320	1301	1282	1251	1213	1176	1138	1094	1044	988	938
70°	1551	1526	1495	1451	1407	1363	1320	1263	1213	1157	1107
67.5°	1801	1770	1726	1676	1620	1564	1507	1445	1382	1320	1263
65°	2076	2033	1976	1920	1857	1789	1714	1639	1570	1488	1420
62.5°	2395	2326	2258	2195	2114	2033	1945	1857	1770	1682	1589
60°	2777	2689	2608	2508	2408	2308	2201	2095	1983	1882	1770
57.5°	3202	3096	2989	2877	2745	2620	2489	2351	2226	2095	1964
55°	3727	3590	3446	3290	3133	2971	2808	2645	2489	2320	2176
52.5°	4346	4171	3984	3771	3577	3371	3177	2971	2777	2583	2395
50°	5116	4878	4615	4340	4090	3821	3571	3327	3089	2864	2639
47.5°	6054	5722	5366	5028	4684	4334	4034	3740	3440	3158	2908
45°	7192	6735	6254	5829	5366	4953	4534	4171	3821	3502	3183
42.5°	8605	7961	7355	6773	6179	5654	5128	4678	4253	3859	3502
40°	10375	9462	8699	7892	7179	6454	5835	5253	4728	4259	3821
37.5°	12470	11401	10325	9231	8324	7430	6610	5891	5260	4690	4184
35°	14759	13533	12220	10919	9600	8537	7505	6604	5835	5147	4559
32.5°	17179	15716	14259	12752	11219	9750	8530	7411	6448	5660	4966
30°	19337	17861	16279	14634	12920	11207	9618	8318	7173	6179	5378
27.5°	21626	19950	18242	16479	14640	12733	10894	9237	7899	6779	5835
25°	23908	22064	20156	18249	16304	14265	12157	10288	8699	7373	6241
22.5°	26166	24146	22070	19906	17842	15691	13490	11307	9437	7961	6717
20°	28449	26179	23927	21582	19281	17086	14722	12383	10306	8568	7154
17.5°	30625	28161	25609	23052	20625	18230	15822	13421	11107	9118	7592
15°	32683	29937	27192	24434	21788	19331	16804	14321	11864	9700	7974
12.5°	34459	31451	28593	25710	22895	20281	17673	15103	12576	10263	8361
10°	36072	32833	29812	26816	23902	21100	18393	15753	13158	10719	8674
7.5°	37448	34065	30831	27673	24646	21720	18937	16254	13608	11069	8918
5°	38505	34896	31519	28230	25140	22132	19324	16610	13927	11319	9074
2.5°	39005	35390	31888	28536	25566	22501	19675	16929	14196	11557	9243
0°	39255	35572	32057	28799	25747	22651	19768	16973	14190	11588	9256
-2.5°	39005	35390	31888	28536	25566	22501	19675	16929	14196	11557	9243
-5°	38505	34896	31519	28230	25140	22132	19324	16610	13927	11319	9074
-7.5°	37448	34065	30831	27673	24646	21720	18937	16254	13608	11069	8918
-10°	36072	32833	29812	26816	23902	21100	18393	15753	13158	10719	8674
-12.5°	34459	31451	28593	25710	22895	20281	17673	15103	12576	10263	8361
-15°	32683	29937	27192	24434	21788	19331	16804	14321	11864	9700	7974
-17.5°	30625	28161	25609	23052	20625	18230	15822	13421	11107	9118	7592
-20°	28449	26179	23927	21582	19281	17086	14722	12383	10306	8568	7154



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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°	26166	24146	22070	19906	17842	15691	13490	11307	9437	7961	6717
-25°	23908	22064	20156	18249	16304	14265	12157	10288	8699	7373	6241
-27.5°	21626	19950	18242	16479	14640	12733	10894	9237	7899	6779	5835
-30°	19337	17861	16279	14634	12920	11207	9618	8318	7173	6179	5378
-32.5°	17179	15716	14259	12752	11219	9750	8530	7411	6448	5660	4966
-35°	14759	13533	12220	10919	9600	8537	7505	6604	5835	5147	4559
-37.5°	12470	11401	10325	9231	8324	7430	6610	5891	5260	4690	4184
-40°	10375	9462	8699	7892	7179	6454	5835	5253	4728	4259	3821
-42.5°	8605	7961	7355	6773	6179	5654	5128	4678	4253	3859	3502
-45°	7192	6735	6254	5829	5366	4953	4534	4171	3821	3502	3183
-47.5°	6054	5722	5366	5028	4684	4334	4034	3740	3440	3158	2908
-50°	5116	4878	4615	4340	4090	3821	3571	3327	3089	2864	2639
-52.5°	4346	4171	3984	3771	3577	3371	3177	2971	2777	2583	2395
-55°	3727	3590	3446	3290	3133	2971	2808	2645	2489	2320	2176
-57.5°	3202	3096	2989	2877	2745	2620	2489	2351	2226	2095	1964
-60°	2777	2689	2608	2508	2408	2308	2201	2095	1983	1882	1770
-62.5°	2395	2326	2258	2195	2114	2033	1945	1857	1770	1682	1589
-65°	2076	2033	1976	1920	1857	1789	1714	1639	1570	1488	1420
-67.5°	1801	1770	1726	1676	1620	1564	1507	1445	1382	1320	1263
-70°	1551	1526	1495	1451	1407	1363	1320	1263	1213	1157	1107
-72.5°	1320	1301	1282	1251	1213	1176	1138	1094	1044	988	938
-75°	1088	1082	1069	1044	1019	994	963	913	851	782	732
-77.5°	869	876	869	851	832	807	769	713	657	600	557
-80°	694	700	707	688	669	650	619	563	507	450	407
-82.5°	525	532	532	519	500	488	469	425	382	344	306
-85°	319	319	319	319	319	319	313	288	256	231	206
-87.5°	156	156	150	156	156	156	156	138	125	113	100
-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°	106	113	119	119	119	113	106	100	88	81	75
85°	219	225	238	244	231	225	206	194	181	163	150
82.5°	325	338	350	350	338	325	306	288	269	244	219
80°	432	450	469	469	450	425	400	375	350	319	288
77.5°	569	582	588	594	569	544	513	469	432	394	357
75°	719	719	725	713	688	669	625	575	519	469	419
72.5°	901	869	857	838	794	757	725	682	607	538	482
70°	1057	1013	976	938	894	844	807	751	688	607	538
67.5°	1207	1151	1094	1044	988	938	882	813	744	669	594
65°	1357	1288	1220	1151	1088	1026	963	882	801	725	644
62.5°	1507	1426	1345	1263	1188	1113	1044	951	857	776	688
60°	1664	1576	1482	1388	1295	1207	1119	1019	919	819	732
57.5°	1845	1720	1614	1507	1401	1301	1195	1088	982	876	769
55°	2026	1889	1751	1632	1513	1401	1276	1157	1038	926	807
52.5°	2220	2058	1907	1757	1626	1495	1363	1238	1101	976	832
50°	2433	2239	2064	1895	1739	1595	1451	1307	1163	1026	863
47.5°	2658	2433	2226	2033	1864	1689	1532	1382	1226	1082	894
45°	2908	2639	2395	2183	1976	1789	1620	1451	1288	1119	913
42.5°	3152	2858	2583	2320	2101	1889	1707	1526	1351	1151	944
40°	3440	3077	2770	2489	2226	1989	1782	1595	1413	1188	969
37.5°	3740	3321	2964	2639	2351	2095	1870	1657	1457	1226	994
35°	4040	3571	3158	2796	2483	2201	1951	1726	1501	1257	1019
32.5°	4353	3821	3352	2952	2608	2308	2033	1789	1551	1295	1038
30°	4697	4084	3552	3102	2727	2402	2114	1851	1601	1326	1057
27.5°	5022	4328	3746	3265	2852	2502	2189	1914	1657	1357	1082
25°	5347	4590	3952	3415	2971	2589	2264	1970	1707	1395	1101
22.5°	5697	4847	4140	3558	3077	2677	2333	2033	1751	1432	1119
20°	6016	5078	4303	3696	3190	2764	2402	2083	1789	1470	1138
17.5°	6310	5316	4503	3840	3296	2846	2458	2126	1826	1501	1151
15°	6629	5553	4678	3965	3390	2914	2514	2170	1857	1532	1157
12.5°	6904	5754	4828	4078	3471	2971	2558	2201	1889	1564	1170
10°	7129	5916	4953	4165	3533	3021	2589	2233	1907	1582	1176
7.5°	7305	6041	5047	4234	3583	3058	2620	2251	1926	1601	1176
5°	7436	6135	5109	4284	3621	3089	2645	2270	1945	1626	1182
2.5°	7555	6235	5159	4328	3652	3114	2664	2283	1945	1620	1170
0°	7573	6254	5153	4328	3652	3121	2664	2283	1939	1614	1157
-2.5°	7555	6235	5159	4328	3652	3114	2664	2283	1945	1620	1170
-5°	7436	6135	5109	4284	3621	3089	2645	2270	1945	1626	1182
-7.5°	7305	6041	5047	4234	3583	3058	2620	2251	1926	1601	1176
-10°	7129	5916	4953	4165	3533	3021	2589	2233	1907	1582	1176
-12.5°	6904	5754	4828	4078	3471	2971	2558	2201	1889	1564	1170
-15°	6629	5553	4678	3965	3390	2914	2514	2170	1857	1532	1157
-17.5°	6310	5316	4503	3840	3296	2846	2458	2126	1826	1501	1151
-20°	6016	5078	4303	3696	3190	2764	2402	2083	1789	1470	1138



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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°	5697	4847	4140	3558	3077	2677	2333	2033	1751	1432	1119
-25°	5347	4590	3952	3415	2971	2589	2264	1970	1707	1395	1101
-27.5°	5022	4328	3746	3265	2852	2502	2189	1914	1657	1357	1082
-30°	4697	4084	3552	3102	2727	2402	2114	1851	1601	1326	1057
-32.5°	4353	3821	3352	2952	2608	2308	2033	1789	1551	1295	1038
-35°	4040	3571	3158	2796	2483	2201	1951	1726	1501	1257	1019
-37.5°	3740	3321	2964	2639	2351	2095	1870	1657	1457	1226	994
-40°	3440	3077	2770	2489	2226	1989	1782	1595	1413	1188	969
-42.5°	3152	2858	2583	2320	2101	1889	1707	1526	1351	1151	944
-45°	2908	2639	2395	2183	1976	1789	1620	1451	1288	1119	913
-47.5°	2658	2433	2226	2033	1864	1689	1532	1382	1226	1082	894
-50°	2433	2239	2064	1895	1739	1595	1451	1307	1163	1026	863
-52.5°	2220	2058	1907	1757	1626	1495	1363	1238	1101	976	832
-55°	2026	1889	1751	1632	1513	1401	1276	1157	1038	926	807
-57.5°	1845	1720	1614	1507	1401	1301	1195	1088	982	876	769
-60°	1664	1576	1482	1388	1295	1207	1119	1019	919	819	732
-62.5°	1507	1426	1345	1263	1188	1113	1044	951	857	776	688
-65°	1357	1288	1220	1151	1088	1026	963	882	801	725	644
-67.5°	1207	1151	1094	1044	988	938	882	813	744	669	594
-70°	1057	1013	976	938	894	844	807	751	688	607	538
-72.5°	901	869	857	838	794	757	725	682	607	538	482
-75°	719	719	725	713	688	669	625	575	519	469	419
-77.5°	569	582	588	594	569	544	513	469	432	394	357
-80°	432	450	469	469	450	425	400	375	350	319	288
-82.5°	325	338	350	350	338	325	306	288	269	244	219
-85°	219	225	238	244	231	225	206	194	181	163	150
-87.5°	106	113	119	119	119	113	106	100	88	81	75
-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°	63	50	38	25	13	6	0
85°	131	100	69	44	25	13	0
82.5°	194	144	106	69	44	19	0
80°	256	194	138	94	56	25	0
77.5°	313	238	175	113	69	31	0
75°	363	275	206	138	81	38	0
72.5°	413	313	231	156	94	44	0
70°	463	350	256	181	106	50	0
67.5°	500	382	281	194	119	56	0
65°	532	413	300	206	131	56	0
62.5°	563	438	319	219	144	63	0
60°	600	463	344	231	150	69	0
57.5°	625	482	357	244	156	75	0
55°	650	507	369	256	169	81	0
52.5°	675	525	388	263	175	81	0
50°	694	544	400	269	181	88	0
47.5°	719	557	407	275	188	94	0
45°	738	575	419	281	194	94	0
42.5°	757	588	425	288	194	100	0
40°	776	594	438	300	200	106	0
37.5°	788	607	444	306	206	106	0
35°	794	613	450	313	213	113	0
32.5°	807	625	457	325	213	113	0
30°	826	625	457	332	219	113	0
27.5°	838	632	469	332	219	119	0
25°	844	632	475	338	225	119	0
22.5°	851	638	482	344	225	119	0
20°	857	644	488	350	231	125	0
17.5°	863	657	494	350	231	125	0
15°	876	663	494	350	231	131	0
12.5°	882	663	494	357	231	131	0
10°	888	669	494	357	238	125	0
7.5°	888	669	500	357	238	125	0
5°	888	675	494	357	231	125	0
2.5°	876	675	494	350	231	125	0
0°	869	669	488	350	231	125	0
-2.5°	876	675	494	350	231	125	0
-5°	888	675	494	357	231	125	0
-7.5°	888	669	500	357	238	125	0
-10°	888	669	494	357	238	125	0
-12.5°	882	663	494	357	231	131	0
-15°	876	663	494	350	231	131	0
-17.5°	863	657	494	350	231	125	0
-20°	857	644	488	350	231	125	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	851	638	482	344	225	119	0
-25°	844	632	475	338	225	119	0
-27.5°	838	632	469	332	219	119	0
-30°	826	625	457	332	219	113	0
-32.5°	807	625	457	325	213	113	0
-35°	794	613	450	313	213	113	0
-37.5°	788	607	444	306	206	106	0
-40°	776	594	438	300	200	106	0
-42.5°	757	588	425	288	194	100	0
-45°	738	575	419	281	194	94	0
-47.5°	719	557	407	275	188	94	0
-50°	694	544	400	269	181	88	0
-52.5°	675	525	388	263	175	81	0
-55°	650	507	369	256	169	81	0
-57.5°	625	482	357	244	156	75	0
-60°	600	463	344	231	150	69	0
-62.5°	563	438	319	219	144	63	0
-65°	532	413	300	206	131	56	0
-67.5°	500	382	281	194	119	56	0
-70°	463	350	256	181	106	50	0
-72.5°	413	313	231	156	94	44	0
-75°	363	275	206	138	81	38	0
-77.5°	313	238	175	113	69	31	0
-80°	256	194	138	94	56	25	0
-82.5°	194	144	106	69	44	19	0
-85°	131	100	69	44	25	13	0
-87.5°	63	50	38	25	13	6	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)