

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: P621381

Luminaire Tested: **EPH-VN-06-E-735-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P621381
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-735-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

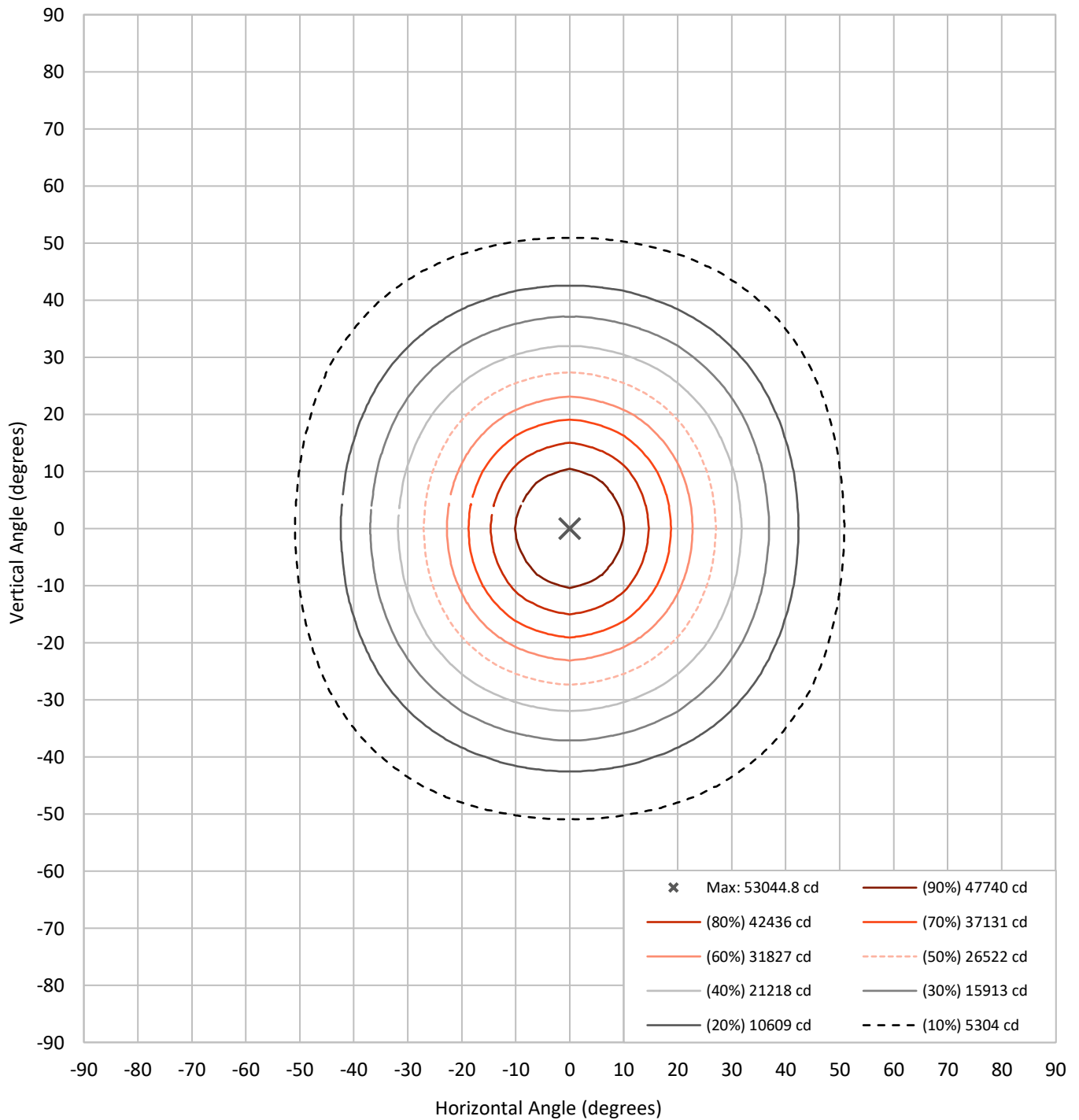
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	55016.2 lumens	Max Intensity:	53044.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	26452 lumens	Field Lumens:	48282.2 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%

Input Watts (W): 464.2
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





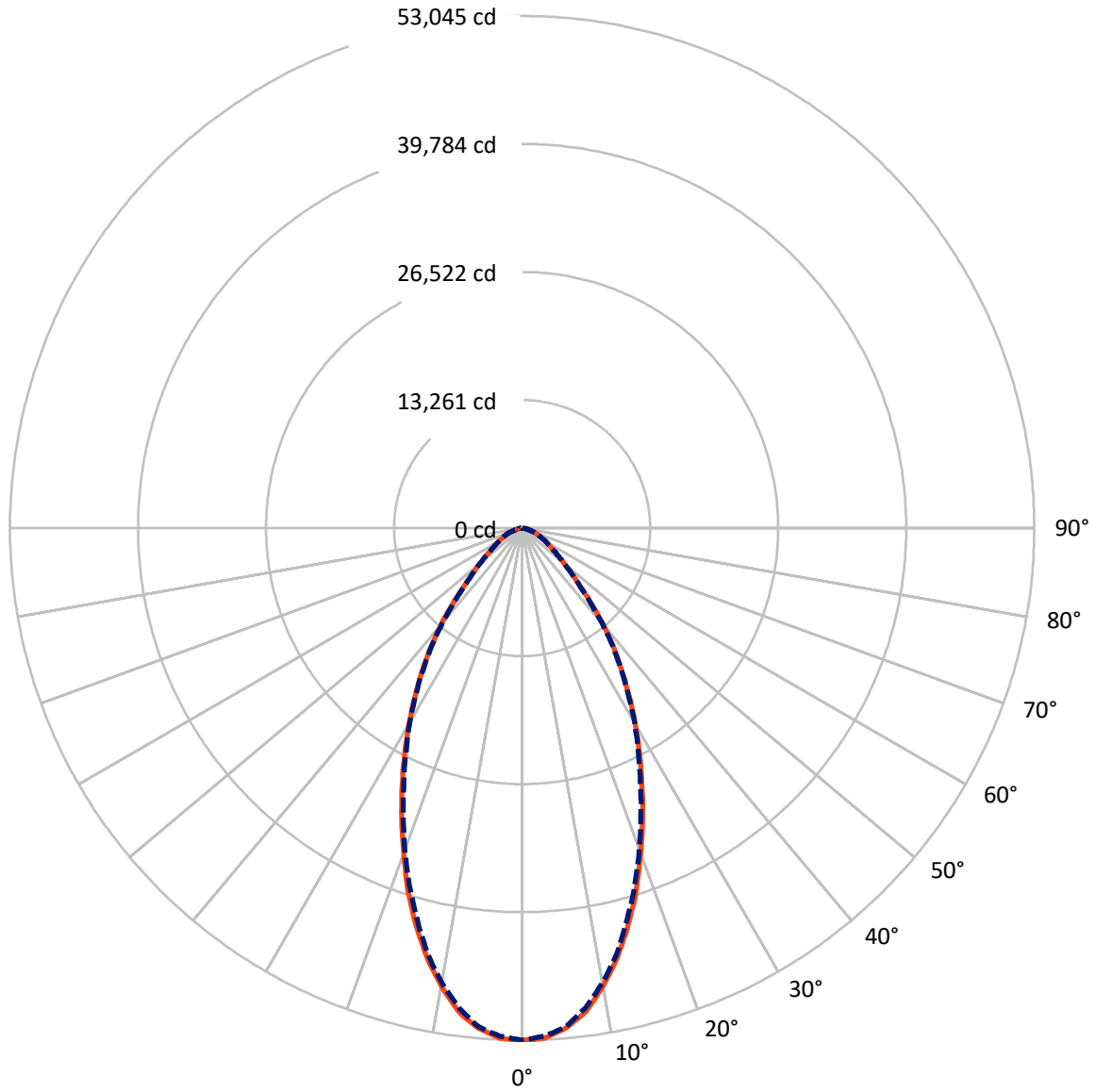
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Lumen Table

90																
80	3.9	23.6		47.5		72.3		62.1		72.3		47.5		23.6		3.9
70																
60	9.7	10.3	18.3	27.9	39.0	49.9	58.1	62.3	62.3	58.1	49.9	39.0	27.9	18.3	10.3	9.7
50		13.7	26.0	42.8	64.1	87.3	108.2	120.8	120.8	108.2	87.3	64.1	42.8	26.0	13.7	
40	13.0	17.1	34.9	63.0	104.5	160.3	220.6	261.7	261.7	220.6	160.3	104.5	63.0	34.9	17.1	13.0
30		20.4	45.1	90.7	173.9	307.6	447.4	534.3	534.3	447.4	307.6	173.9	90.7	45.1	20.4	
20	15.0	23.4	55.4	125.7	278.3	502.3	721.6	866.0	866.0	721.6	502.3	278.3	125.7	55.4	23.4	15.0
10		25.9	64.7	161.7	379.1	676.4	1001.6	1236.7	1236.7	1001.6	676.4	379.1	161.7	64.7	25.9	
0	15.7	27.2	70.2	185.4	437.6	784.5	1194.7	1501.6	1501.6	1194.7	784.5	437.6	185.4	70.2	27.2	15.7
-10		27.2	70.2	185.4	437.6	784.5	1194.7	1501.6	1501.6	1194.7	784.5	437.6	185.4	70.2	27.2	
-20	15.0	25.9	64.7	161.7	379.1	676.4	1001.6	1236.7	1236.7	1001.6	676.4	379.1	161.7	64.7	25.9	15.0
-30		23.4	55.4	125.7	278.3	502.3	721.6	866.0	866.0	721.6	502.3	278.3	125.7	55.4	23.4	
-40	13.0	20.4	45.1	90.7	173.9	307.6	447.4	534.3	534.3	447.4	307.6	173.9	90.7	45.1	20.4	13.0
-50		17.1	34.9	63.0	104.5	160.3	220.6	261.7	261.7	220.6	160.3	104.5	63.0	34.9	17.1	
-60	9.7	13.7	26.0	42.8	64.1	87.3	108.2	120.8	120.8	108.2	87.3	64.1	42.8	26.0	13.7	9.7
-70		10.3	18.3	27.9	39.0	49.9	58.1	62.3	62.3	58.1	49.9	39.0	27.9	18.3	10.3	
-80																
-90	3.9	23.6		47.5		72.3		62.1		72.3		47.5		23.6		3.9

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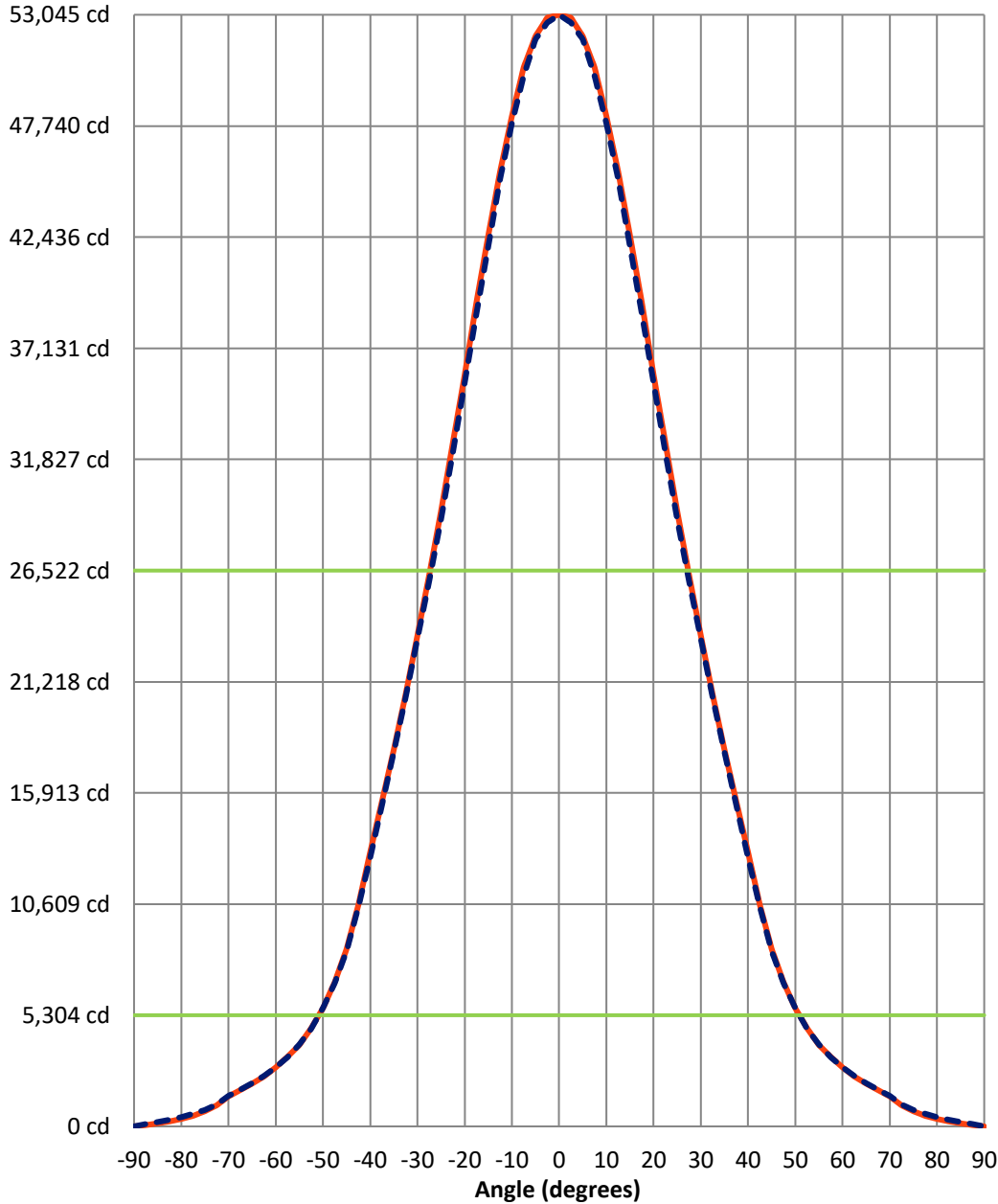
Luminous Intensity Polar Plot



— 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: 26452
 Efficiency: 48.1%

Field:
 H Angle: 101.7°
 V Angle: 101.8°
 Lumens: 48282.2
 Efficiency: 87.8%

Spill:
 Lumens: 6734.1
 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	11	23	34	45	57	68	74	79	90
85°	0	11	23	40	62	90	119	136	147	164	175
82.5°	0	17	40	62	96	130	175	198	220	243	260
80°	0	23	51	85	124	175	232	260	288	317	339
77.5°	0	28	62	102	158	215	283	322	356	390	424
75°	0	34	74	124	187	249	328	379	424	469	520
72.5°	0	40	85	141	209	283	373	435	486	548	616
70°	0	45	96	164	232	317	418	486	548	622	678
67.5°	0	51	107	175	254	345	452	537	605	673	735
65°	0	51	119	187	271	373	480	582	656	724	797
62.5°	0	57	130	198	288	396	509	622	701	774	859
60°	0	62	136	209	311	418	543	661	740	831	921
57.5°	0	68	141	220	322	435	565	695	791	887	984
55°	0	74	153	232	334	458	588	729	837	938	1046
52.5°	0	74	158	237	350	475	610	752	882	995	1119
50°	0	79	164	243	362	492	627	780	927	1051	1181
47.5°	0	85	170	249	367	503	650	808	978	1108	1249
45°	0	85	175	254	379	520	667	825	1012	1164	1311
42.5°	0	90	175	260	384	531	684	854	1040	1221	1379
40°	0	96	181	271	396	537	701	876	1074	1277	1441
37.5°	0	96	187	277	401	548	712	899	1108	1317	1498
35°	0	102	192	283	407	554	718	921	1136	1357	1560
32.5°	0	102	192	294	413	565	729	938	1170	1402	1617
30°	0	102	198	300	413	565	746	955	1198	1447	1673
27.5°	0	107	198	300	424	571	757	978	1227	1498	1730
25°	0	107	204	305	430	571	763	995	1260	1543	1780
22.5°	0	107	204	311	435	577	769	1012	1294	1583	1837
20°	0	113	209	317	441	582	774	1029	1328	1617	1882
17.5°	0	113	209	317	447	594	780	1040	1357	1650	1922
15°	0	119	209	317	447	599	791	1046	1385	1679	1961
12.5°	0	119	209	322	447	599	797	1057	1413	1707	1990
10°	0	113	215	322	447	605	803	1063	1430	1724	2018
7.5°	0	113	215	322	452	605	803	1063	1447	1741	2035
5°	0	113	209	322	447	610	803	1068	1470	1758	2052
2.5°	0	113	209	317	447	610	791	1057	1464	1758	2063
0°	0	113	209	317	441	605	786	1046	1458	1752	2063
-2.5°	0	113	209	317	447	610	791	1057	1464	1758	2063
-5°	0	113	209	322	447	610	803	1068	1470	1758	2052
-7.5°	0	113	215	322	452	605	803	1063	1447	1741	2035
-10°	0	113	215	322	447	605	803	1063	1430	1724	2018
-12.5°	0	119	209	322	447	599	797	1057	1413	1707	1990
-15°	0	119	209	317	447	599	791	1046	1385	1679	1961
-17.5°	0	113	209	317	447	594	780	1040	1357	1650	1922
-20°	0	113	209	317	441	582	774	1029	1328	1617	1882



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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	107	204	311	435	577	769	1012	1294	1583	1837
-25°	0	107	204	305	430	571	763	995	1260	1543	1780
-27.5°	0	107	198	300	424	571	757	978	1227	1498	1730
-30°	0	102	198	300	413	565	746	955	1198	1447	1673
-32.5°	0	102	192	294	413	565	729	938	1170	1402	1617
-35°	0	102	192	283	407	554	718	921	1136	1357	1560
-37.5°	0	96	187	277	401	548	712	899	1108	1317	1498
-40°	0	96	181	271	396	537	701	876	1074	1277	1441
-42.5°	0	90	175	260	384	531	684	854	1040	1221	1379
-45°	0	85	175	254	379	520	667	825	1012	1164	1311
-47.5°	0	85	170	249	367	503	650	808	978	1108	1249
-50°	0	79	164	243	362	492	627	780	927	1051	1181
-52.5°	0	74	158	237	350	475	610	752	882	995	1119
-55°	0	74	153	232	334	458	588	729	837	938	1046
-57.5°	0	68	141	220	322	435	565	695	791	887	984
-60°	0	62	136	209	311	418	543	661	740	831	921
-62.5°	0	57	130	198	288	396	509	622	701	774	859
-65°	0	51	119	187	271	373	480	582	656	724	797
-67.5°	0	51	107	175	254	345	452	537	605	673	735
-70°	0	45	96	164	232	317	418	486	548	622	678
-72.5°	0	40	85	141	209	283	373	435	486	548	616
-75°	0	34	74	124	187	249	328	379	424	469	520
-77.5°	0	28	62	102	158	215	283	322	356	390	424
-80°	0	23	51	85	124	175	232	260	288	317	339
-82.5°	0	17	40	62	96	130	175	198	220	243	260
-85°	0	11	23	40	62	90	119	136	147	164	175
-87.5°	0	6	11	23	34	45	57	68	74	79	90
-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°	96	102	107	107	107	102	96	90	102	113	124
85°	187	204	209	220	215	204	198	187	209	232	260
82.5°	277	294	305	317	317	305	294	277	311	345	384
80°	362	384	407	424	424	407	390	367	407	458	509
77.5°	464	492	514	537	531	526	514	503	543	594	644
75°	565	605	622	644	656	650	650	661	707	769	825
72.5°	656	684	718	757	774	786	814	848	893	944	989
70°	729	763	808	848	882	916	955	1000	1046	1097	1142
67.5°	797	848	893	944	989	1040	1091	1142	1193	1249	1306
65°	870	927	984	1040	1102	1164	1227	1283	1345	1419	1481
62.5°	944	1006	1074	1142	1215	1289	1362	1436	1520	1600	1679
60°	1012	1091	1170	1255	1340	1424	1504	1600	1701	1792	1893
57.5°	1080	1176	1266	1362	1458	1554	1667	1775	1893	2012	2125
55°	1153	1266	1368	1475	1583	1707	1831	1967	2097	2250	2391
52.5°	1232	1351	1470	1588	1724	1860	2007	2165	2334	2510	2685
50°	1311	1441	1571	1713	1865	2023	2199	2385	2589	2792	3007
47.5°	1385	1526	1684	1837	2012	2199	2402	2628	2854	3109	3380
45°	1464	1617	1786	1973	2165	2385	2628	2877	3165	3453	3770
42.5°	1543	1707	1899	2097	2334	2583	2849	3165	3487	3843	4228
40°	1611	1797	2012	2250	2504	2781	3109	3453	3849	4273	4748
37.5°	1690	1893	2125	2385	2679	3001	3380	3781	4239	4753	5324
35°	1764	1990	2244	2527	2854	3227	3651	4120	4652	5273	5969
32.5°	1837	2086	2357	2668	3030	3453	3934	4488	5115	5827	6698
30°	1910	2170	2464	2803	3210	3691	4245	4861	5584	6483	7517
27.5°	1978	2261	2577	2950	3386	3911	4539	5273	6127	7139	8348
25°	2046	2340	2685	3086	3572	4149	4833	5641	6664	7862	9298
22.5°	2108	2419	2781	3216	3742	4380	5149	6070	7195	8529	10219
20°	2170	2498	2883	3340	3889	4590	5437	6466	7743	9315	11191
17.5°	2221	2572	2979	3470	4070	4804	5703	6862	8241	10038	12129
15°	2272	2634	3063	3583	4228	5019	5991	7206	8766	10722	12943
12.5°	2312	2685	3137	3685	4363	5200	6240	7557	9275	11366	13650
10°	2340	2730	3193	3764	4477	5347	6443	7839	9688	11892	14238
7.5°	2368	2764	3239	3827	4561	5460	6602	8060	10004	12299	14690
5°	2391	2792	3273	3872	4618	5545	6720	8201	10230	12587	15012
2.5°	2408	2815	3301	3911	4663	5635	6828	8354	10445	12830	15300
0°	2408	2820	3301	3911	4657	5652	6845	8365	10473	12825	15340
-2.5°	2408	2815	3301	3911	4663	5635	6828	8354	10445	12830	15300
-5°	2391	2792	3273	3872	4618	5545	6720	8201	10230	12587	15012
-7.5°	2368	2764	3239	3827	4561	5460	6602	8060	10004	12299	14690
-10°	2340	2730	3193	3764	4477	5347	6443	7839	9688	11892	14238
-12.5°	2312	2685	3137	3685	4363	5200	6240	7557	9275	11366	13650
-15°	2272	2634	3063	3583	4228	5019	5991	7206	8766	10722	12943
-17.5°	2221	2572	2979	3470	4070	4804	5703	6862	8241	10038	12129
-20°	2170	2498	2883	3340	3889	4590	5437	6466	7743	9315	11191



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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°	2108	2419	2781	3216	3742	4380	5149	6070	7195	8529	10219
-25°	2046	2340	2685	3086	3572	4149	4833	5641	6664	7862	9298
-27.5°	1978	2261	2577	2950	3386	3911	4539	5273	6127	7139	8348
-30°	1910	2170	2464	2803	3210	3691	4245	4861	5584	6483	7517
-32.5°	1837	2086	2357	2668	3030	3453	3934	4488	5115	5827	6698
-35°	1764	1990	2244	2527	2854	3227	3651	4120	4652	5273	5969
-37.5°	1690	1893	2125	2385	2679	3001	3380	3781	4239	4753	5324
-40°	1611	1797	2012	2250	2504	2781	3109	3453	3849	4273	4748
-42.5°	1543	1707	1899	2097	2334	2583	2849	3165	3487	3843	4228
-45°	1464	1617	1786	1973	2165	2385	2628	2877	3165	3453	3770
-47.5°	1385	1526	1684	1837	2012	2199	2402	2628	2854	3109	3380
-50°	1311	1441	1571	1713	1865	2023	2199	2385	2589	2792	3007
-52.5°	1232	1351	1470	1588	1724	1860	2007	2165	2334	2510	2685
-55°	1153	1266	1368	1475	1583	1707	1831	1967	2097	2250	2391
-57.5°	1080	1176	1266	1362	1458	1554	1667	1775	1893	2012	2125
-60°	1012	1091	1170	1255	1340	1424	1504	1600	1701	1792	1893
-62.5°	944	1006	1074	1142	1215	1289	1362	1436	1520	1600	1679
-65°	870	927	984	1040	1102	1164	1227	1283	1345	1419	1481
-67.5°	797	848	893	944	989	1040	1091	1142	1193	1249	1306
-70°	729	763	808	848	882	916	955	1000	1046	1097	1142
-72.5°	656	684	718	757	774	786	814	848	893	944	989
-75°	565	605	622	644	656	650	650	661	707	769	825
-77.5°	464	492	514	537	531	526	514	503	543	594	644
-80°	362	384	407	424	424	407	390	367	407	458	509
-82.5°	277	294	305	317	317	305	294	277	311	345	384
-85°	187	204	209	220	215	204	198	187	209	232	260
-87.5°	96	102	107	107	107	102	96	90	102	113	124
-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°	141	141	141	141	136	141	141	147	153	136	119
85°	283	288	288	288	288	288	288	288	288	260	232
82.5°	424	441	452	469	480	480	475	469	458	413	362
80°	560	588	605	622	639	633	627	616	610	554	497
77.5°	695	729	752	769	786	791	786	786	780	729	667
75°	870	899	921	944	967	978	984	984	984	938	882
72.5°	1029	1063	1097	1130	1159	1176	1193	1204	1215	1193	1159
70°	1193	1232	1272	1311	1351	1379	1402	1424	1436	1441	1441
67.5°	1362	1413	1464	1515	1560	1600	1628	1656	1679	1701	1713
65°	1549	1617	1679	1735	1786	1837	1877	1916	1950	1978	1995
62.5°	1758	1837	1910	1984	2040	2103	2165	2221	2267	2306	2334
60°	1990	2086	2176	2267	2357	2430	2510	2577	2634	2685	2730
57.5°	2250	2368	2481	2600	2702	2798	2894	2990	3075	3143	3199
55°	2538	2685	2832	2973	3114	3244	3369	3493	3606	3697	3776
52.5°	2871	3047	3233	3408	3600	3770	3928	4098	4250	4386	4499
50°	3227	3453	3697	3923	4171	4409	4623	4838	5053	5240	5392
47.5°	3646	3917	4233	4544	4850	5172	5471	5754	6048	6296	6506
45°	4098	4477	4850	5268	5652	6087	6500	6913	7274	7636	7941
42.5°	4635	5110	5584	6121	6647	7195	7777	8297	8840	9371	9812
40°	5273	5833	6489	7133	7862	8552	9377	10106	10796	11468	12039
37.5°	5974	6715	7523	8343	9332	10304	11270	12186	13006	13757	14356
35°	6783	7715	8676	9869	11044	12231	13339	14379	15312	16075	16708
32.5°	7709	8812	10140	11525	12887	14204	15526	16555	17527	18398	19144
30°	8693	10129	11677	13226	14712	16142	17476	18714	19845	20822	21659
27.5°	9846	11508	13232	14893	16487	18030	19545	20958	22196	23224	24264
25°	10988	12892	14735	16493	18217	19941	21608	23196	24643	25904	27028
22.5°	12192	14181	16125	17991	19946	21823	23648	25457	27119	28571	29837
20°	13305	15442	17425	19505	21625	23660	25711	27667	29521	31273	32714
17.5°	14300	16476	18641	20834	23145	25451	27678	29798	31912	33952	35750
15°	15187	17471	19692	22083	24575	27057	29538	31872	34252	36513	38525
12.5°	15973	18330	20692	23236	25841	28424	31143	33856	36496	38932	41113
10°	16623	19070	21602	24236	26944	29674	32601	35614	38440	41029	43402
7.5°	17115	19630	22275	25011	27865	30787	33845	36914	39904	42685	45172
5°	17465	20003	22721	25514	28487	31539	34800	38073	41125	44002	46545
2.5°	17782	20336	23106	25791	28820	31985	35252	38643	41763	44719	47551
0°	17866	20472	23270	26028	28973	32149	35478	38790	41989	45200	47862
-2.5°	17782	20336	23106	25791	28820	31985	35252	38643	41763	44719	47551
-5°	17465	20003	22721	25514	28487	31539	34800	38073	41125	44002	46545
-7.5°	17115	19630	22275	25011	27865	30787	33845	36914	39904	42685	45172
-10°	16623	19070	21602	24236	26944	29674	32601	35614	38440	41029	43402
-12.5°	15973	18330	20692	23236	25841	28424	31143	33856	36496	38932	41113
-15°	15187	17471	19692	22083	24575	27057	29538	31872	34252	36513	38525
-17.5°	14300	16476	18641	20834	23145	25451	27678	29798	31912	33952	35750
-20°	13305	15442	17425	19505	21625	23660	25711	27667	29521	31273	32714



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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°	12192	14181	16125	17991	19946	21823	23648	25457	27119	28571	29837
-25°	10988	12892	14735	16493	18217	19941	21608	23196	24643	25904	27028
-27.5°	9846	11508	13232	14893	16487	18030	19545	20958	22196	23224	24264
-30°	8693	10129	11677	13226	14712	16142	17476	18714	19845	20822	21659
-32.5°	7709	8812	10140	11525	12887	14204	15526	16555	17527	18398	19144
-35°	6783	7715	8676	9869	11044	12231	13339	14379	15312	16075	16708
-37.5°	5974	6715	7523	8343	9332	10304	11270	12186	13006	13757	14356
-40°	5273	5833	6489	7133	7862	8552	9377	10106	10796	11468	12039
-42.5°	4635	5110	5584	6121	6647	7195	7777	8297	8840	9371	9812
-45°	4098	4477	4850	5268	5652	6087	6500	6913	7274	7636	7941
-47.5°	3646	3917	4233	4544	4850	5172	5471	5754	6048	6296	6506
-50°	3227	3453	3697	3923	4171	4409	4623	4838	5053	5240	5392
-52.5°	2871	3047	3233	3408	3600	3770	3928	4098	4250	4386	4499
-55°	2538	2685	2832	2973	3114	3244	3369	3493	3606	3697	3776
-57.5°	2250	2368	2481	2600	2702	2798	2894	2990	3075	3143	3199
-60°	1990	2086	2176	2267	2357	2430	2510	2577	2634	2685	2730
-62.5°	1758	1837	1910	1984	2040	2103	2165	2221	2267	2306	2334
-65°	1549	1617	1679	1735	1786	1837	1877	1916	1950	1978	1995
-67.5°	1362	1413	1464	1515	1560	1600	1628	1656	1679	1701	1713
-70°	1193	1232	1272	1311	1351	1379	1402	1424	1436	1441	1441
-72.5°	1029	1063	1097	1130	1159	1176	1193	1204	1215	1193	1159
-75°	870	899	921	944	967	978	984	984	984	938	882
-77.5°	695	729	752	769	786	791	786	786	780	729	667
-80°	560	588	605	622	639	633	627	616	610	554	497
-82.5°	424	441	452	469	480	480	475	469	458	413	362
-85°	283	288	288	288	288	288	288	288	288	260	232
-87.5°	141	141	141	141	136	141	141	147	153	136	119
-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°	96	79	74	62	74	79	96	119	136	153	147
85°	198	164	158	147	158	164	198	232	260	288	288
82.5°	317	260	249	237	249	260	317	362	413	458	469
80°	447	379	367	356	367	379	447	497	554	610	616
77.5°	605	543	520	503	520	543	605	667	729	780	786
75°	820	757	740	724	740	757	820	882	938	984	984
72.5°	1119	1091	1046	1006	1046	1091	1119	1159	1193	1215	1204
70°	1447	1458	1447	1430	1447	1458	1447	1441	1441	1436	1424
67.5°	1718	1730	1730	1735	1730	1730	1718	1713	1701	1679	1656
65°	2012	2018	2035	2040	2035	2018	2012	1995	1978	1950	1916
62.5°	2351	2368	2380	2380	2380	2368	2351	2334	2306	2267	2221
60°	2758	2781	2809	2815	2809	2781	2758	2730	2685	2634	2577
57.5°	3244	3273	3312	3323	3312	3273	3244	3199	3143	3075	2990
55°	3832	3872	3894	3883	3894	3872	3832	3776	3697	3606	3493
52.5°	4595	4663	4708	4686	4708	4663	4595	4499	4386	4250	4098
50°	5516	5601	5658	5641	5658	5601	5516	5392	5240	5053	4838
47.5°	6670	6788	6884	6890	6884	6788	6670	6506	6296	6048	5754
45°	8184	8359	8489	8467	8489	8359	8184	7941	7636	7274	6913
42.5°	10151	10394	10586	10569	10586	10394	10151	9812	9371	8840	8297
40°	12463	12762	13017	13085	13017	12762	12463	12039	11468	10796	10106
37.5°	14842	15227	15549	15515	15549	15227	14842	14356	13757	13006	12186
35°	17233	17635	17951	17979	17951	17635	17233	16708	16075	15312	14379
32.5°	19737	20184	20557	20608	20557	20184	19737	19144	18398	17527	16555
30°	22348	22885	23332	23422	23332	22885	22348	21659	20822	19845	18714
27.5°	25095	25734	26158	26322	26158	25734	25095	24264	23224	22196	20958
25°	27927	28622	29097	29363	29097	28622	27927	27028	25904	24643	23196
22.5°	30883	31708	32324	32618	32324	31708	30883	29837	28571	27119	25457
20°	33935	34834	35552	35857	35552	34834	33935	32714	31273	29521	27667
17.5°	37044	38140	38937	39327	38937	38140	37044	35750	33952	31912	29798
15°	40062	41226	42091	42509	42091	41226	40062	38525	36513	34252	31872
12.5°	42860	44092	44957	45562	44957	44092	42860	41113	38932	36496	33856
10°	45358	46703	47579	48207	47579	46703	45358	43402	41029	38440	35614
7.5°	47229	48930	49919	50535	49919	48930	47229	45172	42685	39904	36914
5°	48665	50541	51440	52022	51440	50541	48665	46545	44002	41125	38073
2.5°	49716	51197	52321	52904	52321	51197	49716	47551	44719	41763	38643
0°	50128	51869	52666	53045	52666	51869	50128	47862	45200	41989	38790
-2.5°	49716	51197	52321	52904	52321	51197	49716	47551	44719	41763	38643
-5°	48665	50541	51440	52022	51440	50541	48665	46545	44002	41125	38073
-7.5°	47229	48930	49919	50535	49919	48930	47229	45172	42685	39904	36914
-10°	45358	46703	47579	48207	47579	46703	45358	43402	41029	38440	35614
-12.5°	42860	44092	44957	45562	44957	44092	42860	41113	38932	36496	33856
-15°	40062	41226	42091	42509	42091	41226	40062	38525	36513	34252	31872
-17.5°	37044	38140	38937	39327	38937	38140	37044	35750	33952	31912	29798
-20°	33935	34834	35552	35857	35552	34834	33935	32714	31273	29521	27667



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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°	30883	31708	32324	32618	32324	31708	30883	29837	28571	27119	25457
-25°	27927	28622	29097	29363	29097	28622	27927	27028	25904	24643	23196
-27.5°	25095	25734	26158	26322	26158	25734	25095	24264	23224	22196	20958
-30°	22348	22885	23332	23422	23332	22885	22348	21659	20822	19845	18714
-32.5°	19737	20184	20557	20608	20557	20184	19737	19144	18398	17527	16555
-35°	17233	17635	17951	17979	17951	17635	17233	16708	16075	15312	14379
-37.5°	14842	15227	15549	15515	15549	15227	14842	14356	13757	13006	12186
-40°	12463	12762	13017	13085	13017	12762	12463	12039	11468	10796	10106
-42.5°	10151	10394	10586	10569	10586	10394	10151	9812	9371	8840	8297
-45°	8184	8359	8489	8467	8489	8359	8184	7941	7636	7274	6913
-47.5°	6670	6788	6884	6890	6884	6788	6670	6506	6296	6048	5754
-50°	5516	5601	5658	5641	5658	5601	5516	5392	5240	5053	4838
-52.5°	4595	4663	4708	4686	4708	4663	4595	4499	4386	4250	4098
-55°	3832	3872	3894	3883	3894	3872	3832	3776	3697	3606	3493
-57.5°	3244	3273	3312	3323	3312	3273	3244	3199	3143	3075	2990
-60°	2758	2781	2809	2815	2809	2781	2758	2730	2685	2634	2577
-62.5°	2351	2368	2380	2380	2380	2368	2351	2334	2306	2267	2221
-65°	2012	2018	2035	2040	2035	2018	2012	1995	1978	1950	1916
-67.5°	1718	1730	1730	1735	1730	1730	1718	1713	1701	1679	1656
-70°	1447	1458	1447	1430	1447	1458	1447	1441	1441	1436	1424
-72.5°	1119	1091	1046	1006	1046	1091	1119	1159	1193	1215	1204
-75°	820	757	740	724	740	757	820	882	938	984	984
-77.5°	605	543	520	503	520	543	605	667	729	780	786
-80°	447	379	367	356	367	379	447	497	554	610	616
-82.5°	317	260	249	237	249	260	317	362	413	458	469
-85°	198	164	158	147	158	164	198	232	260	288	288
-87.5°	96	79	74	62	74	79	96	119	136	153	147
-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°	141	141	136	141	141	141	141	124	113	102	90
85°	288	288	288	288	288	288	283	260	232	209	187
82.5°	475	480	480	469	452	441	424	384	345	311	277
80°	627	633	639	622	605	588	560	509	458	407	367
77.5°	786	791	786	769	752	729	695	644	594	543	503
75°	984	978	967	944	921	899	870	825	769	707	661
72.5°	1193	1176	1159	1130	1097	1063	1029	989	944	893	848
70°	1402	1379	1351	1311	1272	1232	1193	1142	1097	1046	1000
67.5°	1628	1600	1560	1515	1464	1413	1362	1306	1249	1193	1142
65°	1877	1837	1786	1735	1679	1617	1549	1481	1419	1345	1283
62.5°	2165	2103	2040	1984	1910	1837	1758	1679	1600	1520	1436
60°	2510	2430	2357	2267	2176	2086	1990	1893	1792	1701	1600
57.5°	2894	2798	2702	2600	2481	2368	2250	2125	2012	1893	1775
55°	3369	3244	3114	2973	2832	2685	2538	2391	2250	2097	1967
52.5°	3928	3770	3600	3408	3233	3047	2871	2685	2510	2334	2165
50°	4623	4409	4171	3923	3697	3453	3227	3007	2792	2589	2385
47.5°	5471	5172	4850	4544	4233	3917	3646	3380	3109	2854	2628
45°	6500	6087	5652	5268	4850	4477	4098	3770	3453	3165	2877
42.5°	7777	7195	6647	6121	5584	5110	4635	4228	3843	3487	3165
40°	9377	8552	7862	7133	6489	5833	5273	4748	4273	3849	3453
37.5°	11270	10304	9332	8343	7523	6715	5974	5324	4753	4239	3781
35°	13339	12231	11044	9869	8676	7715	6783	5969	5273	4652	4120
32.5°	15526	14204	12887	11525	10140	8812	7709	6698	5827	5115	4488
30°	17476	16142	14712	13226	11677	10129	8693	7517	6483	5584	4861
27.5°	19545	18030	16487	14893	13232	11508	9846	8348	7139	6127	5273
25°	21608	19941	18217	16493	14735	12892	10988	9298	7862	6664	5641
22.5°	23648	21823	19946	17991	16125	14181	12192	10219	8529	7195	6070
20°	25711	23660	21625	19505	17425	15442	13305	11191	9315	7743	6466
17.5°	27678	25451	23145	20834	18641	16476	14300	12129	10038	8241	6862
15°	29538	27057	24575	22083	19692	17471	15187	12943	10722	8766	7206
12.5°	31143	28424	25841	23236	20692	18330	15973	13650	11366	9275	7557
10°	32601	29674	26944	24236	21602	19070	16623	14238	11892	9688	7839
7.5°	33845	30787	27865	25011	22275	19630	17115	14690	12299	10004	8060
5°	34800	31539	28487	25514	22721	20003	17465	15012	12587	10230	8201
2.5°	35252	31985	28820	25791	23106	20336	17782	15300	12830	10445	8354
0°	35478	32149	28973	26028	23270	20472	17866	15340	12825	10473	8365
-2.5°	35252	31985	28820	25791	23106	20336	17782	15300	12830	10445	8354
-5°	34800	31539	28487	25514	22721	20003	17465	15012	12587	10230	8201
-7.5°	33845	30787	27865	25011	22275	19630	17115	14690	12299	10004	8060
-10°	32601	29674	26944	24236	21602	19070	16623	14238	11892	9688	7839
-12.5°	31143	28424	25841	23236	20692	18330	15973	13650	11366	9275	7557
-15°	29538	27057	24575	22083	19692	17471	15187	12943	10722	8766	7206
-17.5°	27678	25451	23145	20834	18641	16476	14300	12129	10038	8241	6862
-20°	25711	23660	21625	19505	17425	15442	13305	11191	9315	7743	6466



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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°	23648	21823	19946	17991	16125	14181	12192	10219	8529	7195	6070
-25°	21608	19941	18217	16493	14735	12892	10988	9298	7862	6664	5641
-27.5°	19545	18030	16487	14893	13232	11508	9846	8348	7139	6127	5273
-30°	17476	16142	14712	13226	11677	10129	8693	7517	6483	5584	4861
-32.5°	15526	14204	12887	11525	10140	8812	7709	6698	5827	5115	4488
-35°	13339	12231	11044	9869	8676	7715	6783	5969	5273	4652	4120
-37.5°	11270	10304	9332	8343	7523	6715	5974	5324	4753	4239	3781
-40°	9377	8552	7862	7133	6489	5833	5273	4748	4273	3849	3453
-42.5°	7777	7195	6647	6121	5584	5110	4635	4228	3843	3487	3165
-45°	6500	6087	5652	5268	4850	4477	4098	3770	3453	3165	2877
-47.5°	5471	5172	4850	4544	4233	3917	3646	3380	3109	2854	2628
-50°	4623	4409	4171	3923	3697	3453	3227	3007	2792	2589	2385
-52.5°	3928	3770	3600	3408	3233	3047	2871	2685	2510	2334	2165
-55°	3369	3244	3114	2973	2832	2685	2538	2391	2250	2097	1967
-57.5°	2894	2798	2702	2600	2481	2368	2250	2125	2012	1893	1775
-60°	2510	2430	2357	2267	2176	2086	1990	1893	1792	1701	1600
-62.5°	2165	2103	2040	1984	1910	1837	1758	1679	1600	1520	1436
-65°	1877	1837	1786	1735	1679	1617	1549	1481	1419	1345	1283
-67.5°	1628	1600	1560	1515	1464	1413	1362	1306	1249	1193	1142
-70°	1402	1379	1351	1311	1272	1232	1193	1142	1097	1046	1000
-72.5°	1193	1176	1159	1130	1097	1063	1029	989	944	893	848
-75°	984	978	967	944	921	899	870	825	769	707	661
-77.5°	786	791	786	769	752	729	695	644	594	543	503
-80°	627	633	639	622	605	588	560	509	458	407	367
-82.5°	475	480	480	469	452	441	424	384	345	311	277
-85°	288	288	288	288	288	288	283	260	232	209	187
-87.5°	141	141	136	141	141	141	141	124	113	102	90
-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°	96	102	107	107	107	102	96	90	79	74	68
85°	198	204	215	220	209	204	187	175	164	147	136
82.5°	294	305	317	317	305	294	277	260	243	220	198
80°	390	407	424	424	407	384	362	339	317	288	260
77.5°	514	526	531	537	514	492	464	424	390	356	322
75°	650	650	656	644	622	605	565	520	469	424	379
72.5°	814	786	774	757	718	684	656	616	548	486	435
70°	955	916	882	848	808	763	729	678	622	548	486
67.5°	1091	1040	989	944	893	848	797	735	673	605	537
65°	1227	1164	1102	1040	984	927	870	797	724	656	582
62.5°	1362	1289	1215	1142	1074	1006	944	859	774	701	622
60°	1504	1424	1340	1255	1170	1091	1012	921	831	740	661
57.5°	1667	1554	1458	1362	1266	1176	1080	984	887	791	695
55°	1831	1707	1583	1475	1368	1266	1153	1046	938	837	729
52.5°	2007	1860	1724	1588	1470	1351	1232	1119	995	882	752
50°	2199	2023	1865	1713	1571	1441	1311	1181	1051	927	780
47.5°	2402	2199	2012	1837	1684	1526	1385	1249	1108	978	808
45°	2628	2385	2165	1973	1786	1617	1464	1311	1164	1012	825
42.5°	2849	2583	2334	2097	1899	1707	1543	1379	1221	1040	854
40°	3109	2781	2504	2250	2012	1797	1611	1441	1277	1074	876
37.5°	3380	3001	2679	2385	2125	1893	1690	1498	1317	1108	899
35°	3651	3227	2854	2527	2244	1990	1764	1560	1357	1136	921
32.5°	3934	3453	3030	2668	2357	2086	1837	1617	1402	1170	938
30°	4245	3691	3210	2803	2464	2170	1910	1673	1447	1198	955
27.5°	4539	3911	3386	2950	2577	2261	1978	1730	1498	1227	978
25°	4833	4149	3572	3086	2685	2340	2046	1780	1543	1260	995
22.5°	5149	4380	3742	3216	2781	2419	2108	1837	1583	1294	1012
20°	5437	4590	3889	3340	2883	2498	2170	1882	1617	1328	1029
17.5°	5703	4804	4070	3470	2979	2572	2221	1922	1650	1357	1040
15°	5991	5019	4228	3583	3063	2634	2272	1961	1679	1385	1046
12.5°	6240	5200	4363	3685	3137	2685	2312	1990	1707	1413	1057
10°	6443	5347	4477	3764	3193	2730	2340	2018	1724	1430	1063
7.5°	6602	5460	4561	3827	3239	2764	2368	2035	1741	1447	1063
5°	6720	5545	4618	3872	3273	2792	2391	2052	1758	1470	1068
2.5°	6828	5635	4663	3911	3301	2815	2408	2063	1758	1464	1057
0°	6845	5652	4657	3911	3301	2820	2408	2063	1752	1458	1046
-2.5°	6828	5635	4663	3911	3301	2815	2408	2063	1758	1464	1057
-5°	6720	5545	4618	3872	3273	2792	2391	2052	1758	1470	1068
-7.5°	6602	5460	4561	3827	3239	2764	2368	2035	1741	1447	1063
-10°	6443	5347	4477	3764	3193	2730	2340	2018	1724	1430	1063
-12.5°	6240	5200	4363	3685	3137	2685	2312	1990	1707	1413	1057
-15°	5991	5019	4228	3583	3063	2634	2272	1961	1679	1385	1046
-17.5°	5703	4804	4070	3470	2979	2572	2221	1922	1650	1357	1040
-20°	5437	4590	3889	3340	2883	2498	2170	1882	1617	1328	1029



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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°	5149	4380	3742	3216	2781	2419	2108	1837	1583	1294	1012
-25°	4833	4149	3572	3086	2685	2340	2046	1780	1543	1260	995
-27.5°	4539	3911	3386	2950	2577	2261	1978	1730	1498	1227	978
-30°	4245	3691	3210	2803	2464	2170	1910	1673	1447	1198	955
-32.5°	3934	3453	3030	2668	2357	2086	1837	1617	1402	1170	938
-35°	3651	3227	2854	2527	2244	1990	1764	1560	1357	1136	921
-37.5°	3380	3001	2679	2385	2125	1893	1690	1498	1317	1108	899
-40°	3109	2781	2504	2250	2012	1797	1611	1441	1277	1074	876
-42.5°	2849	2583	2334	2097	1899	1707	1543	1379	1221	1040	854
-45°	2628	2385	2165	1973	1786	1617	1464	1311	1164	1012	825
-47.5°	2402	2199	2012	1837	1684	1526	1385	1249	1108	978	808
-50°	2199	2023	1865	1713	1571	1441	1311	1181	1051	927	780
-52.5°	2007	1860	1724	1588	1470	1351	1232	1119	995	882	752
-55°	1831	1707	1583	1475	1368	1266	1153	1046	938	837	729
-57.5°	1667	1554	1458	1362	1266	1176	1080	984	887	791	695
-60°	1504	1424	1340	1255	1170	1091	1012	921	831	740	661
-62.5°	1362	1289	1215	1142	1074	1006	944	859	774	701	622
-65°	1227	1164	1102	1040	984	927	870	797	724	656	582
-67.5°	1091	1040	989	944	893	848	797	735	673	605	537
-70°	955	916	882	848	808	763	729	678	622	548	486
-72.5°	814	786	774	757	718	684	656	616	548	486	435
-75°	650	650	656	644	622	605	565	520	469	424	379
-77.5°	514	526	531	537	514	492	464	424	390	356	322
-80°	390	407	424	424	407	384	362	339	317	288	260
-82.5°	294	305	317	317	305	294	277	260	243	220	198
-85°	198	204	215	220	209	204	187	175	164	147	136
-87.5°	96	102	107	107	107	102	96	90	79	74	68
-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°	57	45	34	23	11	6	0
85°	119	90	62	40	23	11	0
82.5°	175	130	96	62	40	17	0
80°	232	175	124	85	51	23	0
77.5°	283	215	158	102	62	28	0
75°	328	249	187	124	74	34	0
72.5°	373	283	209	141	85	40	0
70°	418	317	232	164	96	45	0
67.5°	452	345	254	175	107	51	0
65°	480	373	271	187	119	51	0
62.5°	509	396	288	198	130	57	0
60°	543	418	311	209	136	62	0
57.5°	565	435	322	220	141	68	0
55°	588	458	334	232	153	74	0
52.5°	610	475	350	237	158	74	0
50°	627	492	362	243	164	79	0
47.5°	650	503	367	249	170	85	0
45°	667	520	379	254	175	85	0
42.5°	684	531	384	260	175	90	0
40°	701	537	396	271	181	96	0
37.5°	712	548	401	277	187	96	0
35°	718	554	407	283	192	102	0
32.5°	729	565	413	294	192	102	0
30°	746	565	413	300	198	102	0
27.5°	757	571	424	300	198	107	0
25°	763	571	430	305	204	107	0
22.5°	769	577	435	311	204	107	0
20°	774	582	441	317	209	113	0
17.5°	780	594	447	317	209	113	0
15°	791	599	447	317	209	119	0
12.5°	797	599	447	322	209	119	0
10°	803	605	447	322	215	113	0
7.5°	803	605	452	322	215	113	0
5°	803	610	447	322	209	113	0
2.5°	791	610	447	317	209	113	0
0°	786	605	441	317	209	113	0
-2.5°	791	610	447	317	209	113	0
-5°	803	610	447	322	209	113	0
-7.5°	803	605	452	322	215	113	0
-10°	803	605	447	322	215	113	0
-12.5°	797	599	447	322	209	119	0
-15°	791	599	447	317	209	119	0
-17.5°	780	594	447	317	209	113	0
-20°	774	582	441	317	209	113	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	769	577	435	311	204	107	0
-25°	763	571	430	305	204	107	0
-27.5°	757	571	424	300	198	107	0
-30°	746	565	413	300	198	102	0
-32.5°	729	565	413	294	192	102	0
-35°	718	554	407	283	192	102	0
-37.5°	712	548	401	277	187	96	0
-40°	701	537	396	271	181	96	0
-42.5°	684	531	384	260	175	90	0
-45°	667	520	379	254	175	85	0
-47.5°	650	503	367	249	170	85	0
-50°	627	492	362	243	164	79	0
-52.5°	610	475	350	237	158	74	0
-55°	588	458	334	232	153	74	0
-57.5°	565	435	322	220	141	68	0
-60°	543	418	311	209	136	62	0
-62.5°	509	396	288	198	130	57	0
-65°	480	373	271	187	119	51	0
-67.5°	452	345	254	175	107	51	0
-70°	418	317	232	164	96	45	0
-72.5°	373	283	209	141	85	40	0
-75°	328	249	187	124	74	34	0
-77.5°	283	215	158	102	62	28	0
-80°	232	175	124	85	51	23	0
-82.5°	175	130	96	62	40	17	0
-85°	119	90	62	40	23	11	0
-87.5°	57	45	34	23	11	6	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)