

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: P622356

Luminaire Tested: **EPH-VN-07-E-935-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P622356
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-935-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

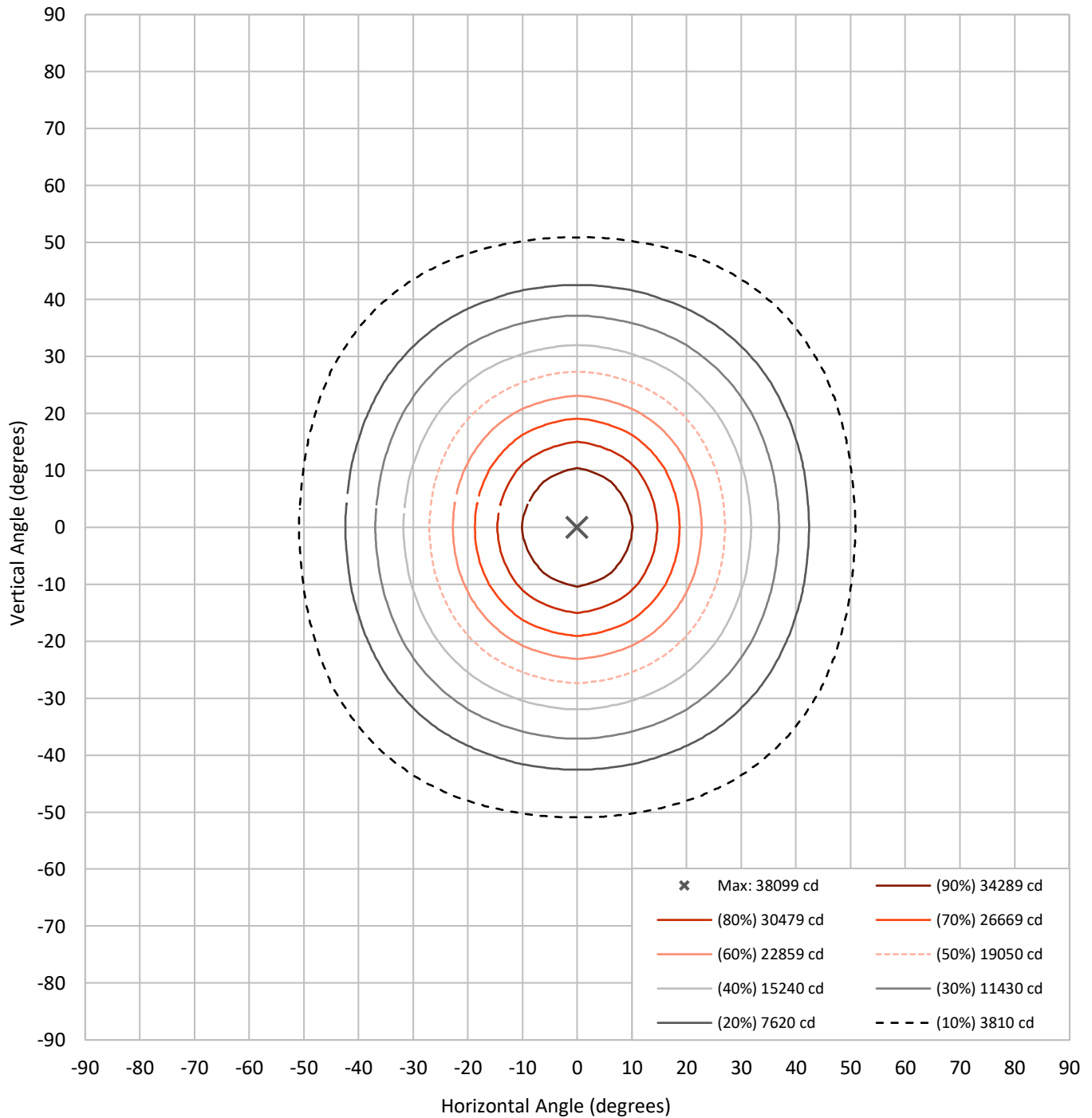
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	39514.9 lumens	Max Intensity:	38099 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	74.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	18998.9 lumens	Field Lumens:	34678.2 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





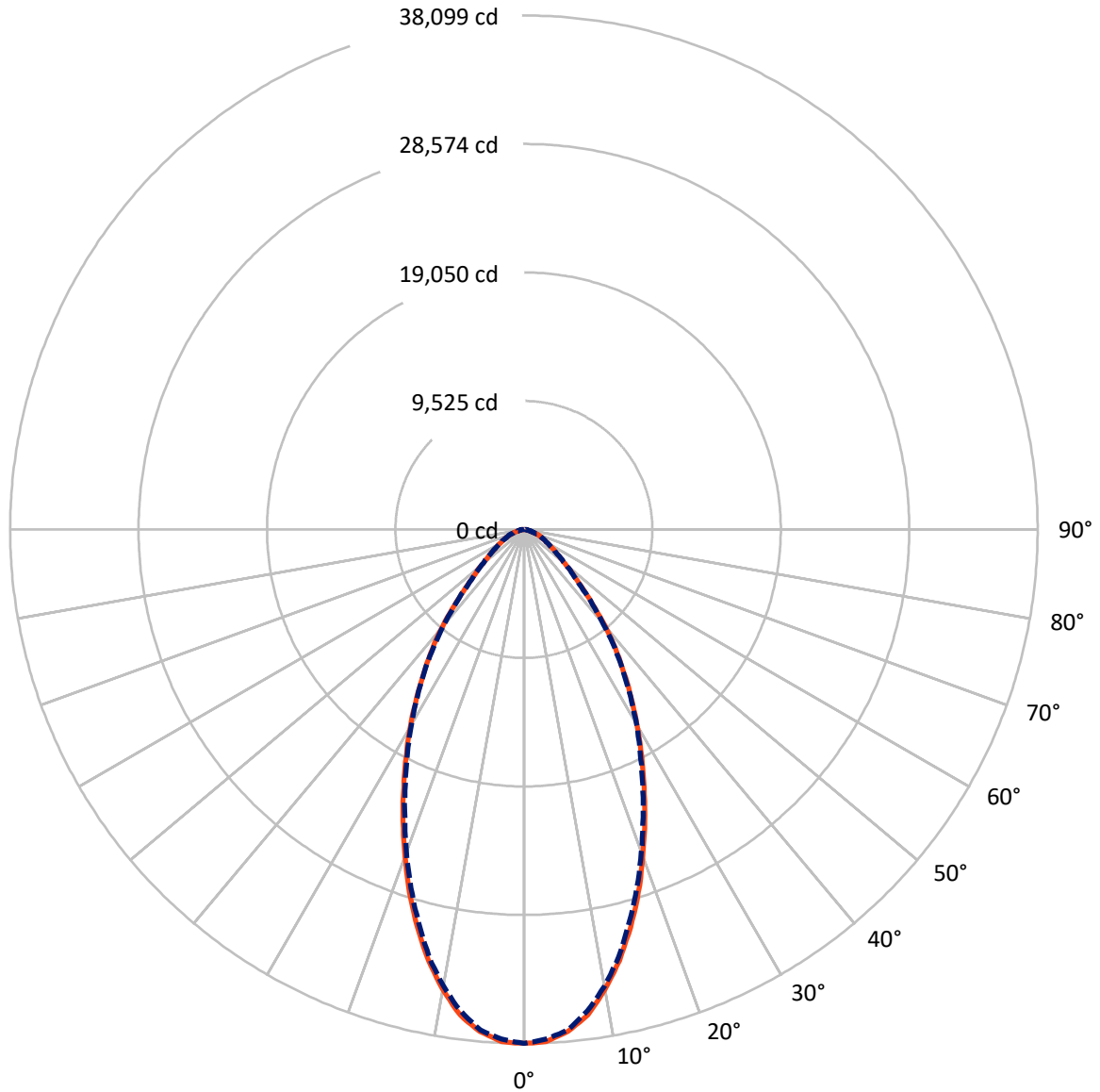
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Lumen Table

90	2.8	17.0	34.1	51.9	44.6	51.9	34.1	17.0	2.8							
80	2.8	17.0	34.1	51.9	44.6	51.9	34.1	17.0	2.8							
70	7.0	7.4	13.2	20.0	28.0	35.8	41.8	44.8	44.8	41.8	35.8	28.0	20.0	13.2	7.4	7.0
60		9.8	18.7	30.7	46.0	62.7	77.7	86.8	86.8	77.7	62.7	46.0	30.7	18.7	9.8	
50	9.3	12.3	25.1	45.2	75.1	115.1	158.5	188.0	188.0	158.5	115.1	75.1	45.2	25.1	12.3	9.3
40		14.6	32.4	65.1	124.9	220.9	321.3	383.7	383.7	321.3	220.9	124.9	65.1	32.4	14.6	
30	10.8	16.8	39.8	90.3	199.9	360.8	518.3	622.0	622.0	518.3	360.8	199.9	90.3	39.8	16.8	10.8
20		18.6	46.5	116.1	272.3	485.8	719.4	888.3	888.3	719.4	485.8	272.3	116.1	46.5	18.6	
10	11.3	19.5	50.4	133.2	314.3	563.5	858.1	1078.5	1078.5	858.1	563.5	314.3	133.2	50.4	19.5	11.3
0		19.5	50.4	133.2	314.3	563.5	858.1	1078.5	1078.5	858.1	563.5	314.3	133.2	50.4	19.5	
-10	10.8	18.6	46.5	116.1	272.3	485.8	719.4	888.3	888.3	719.4	485.8	272.3	116.1	46.5	18.6	10.8
-20		16.8	39.8	90.3	199.9	360.8	518.3	622.0	622.0	518.3	360.8	199.9	90.3	39.8	16.8	
-30	9.3	14.6	32.4	65.1	124.9	220.9	321.3	383.7	383.7	321.3	220.9	124.9	65.1	32.4	14.6	9.3
-40		12.3	25.1	45.2	75.1	115.1	158.5	188.0	188.0	158.5	115.1	75.1	45.2	25.1	12.3	
-50	7.0	9.8	18.7	30.7	46.0	62.7	77.7	86.8	86.8	77.7	62.7	46.0	30.7	18.7	9.8	7.0
-60		7.4	13.2	20.0	28.0	35.8	41.8	44.8	44.8	41.8	35.8	28.0	20.0	13.2	7.4	
-70	2.8	17.0	34.1	51.9	44.6	51.9	34.1	17.0	2.8							
-80		2.8	17.0	34.1	51.9	44.6	51.9	34.1	17.0	2.8						
-90	2.8	17.0	34.1	51.9	44.6	51.9	34.1	17.0	2.8							

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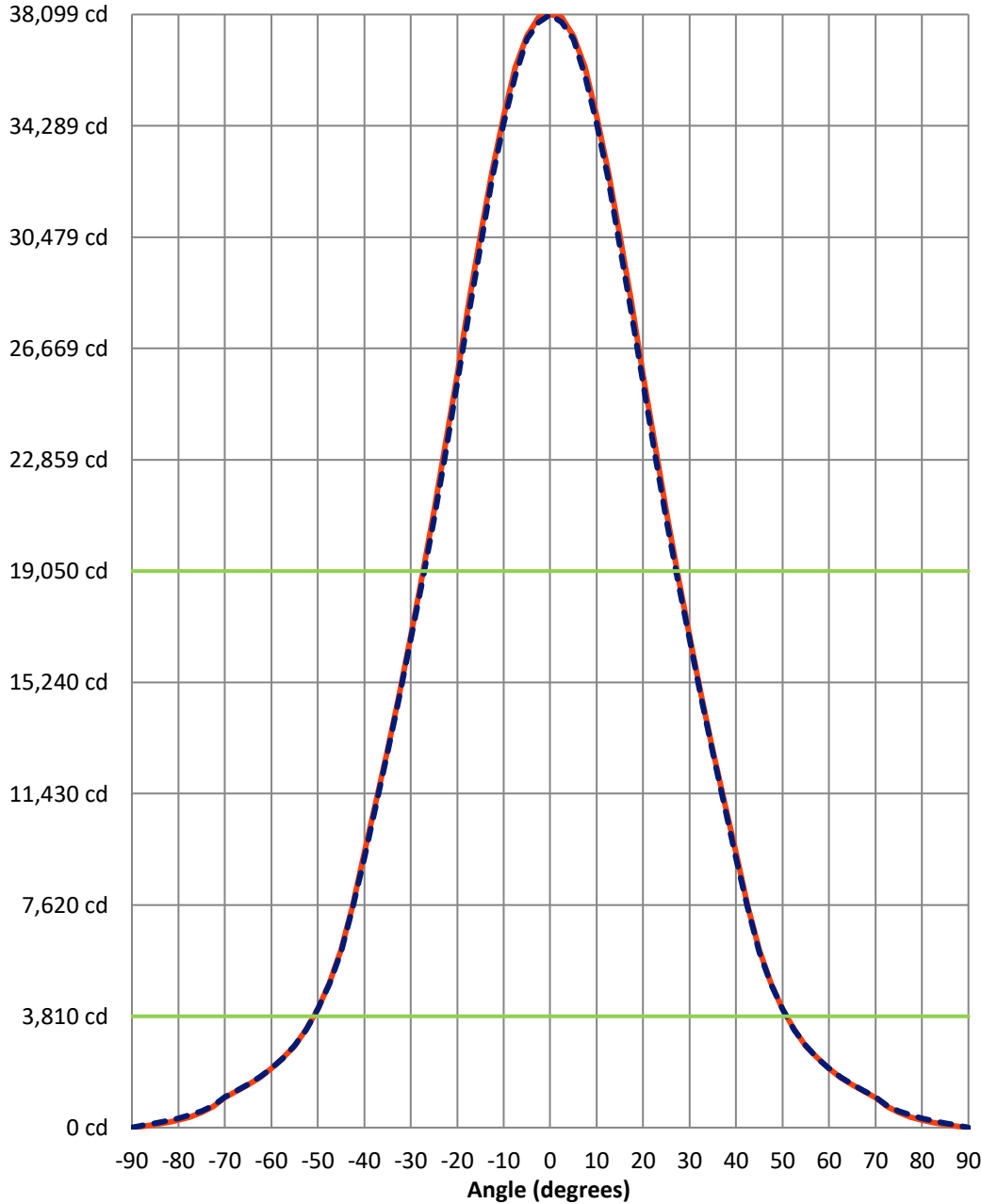
Luminous Intensity Polar Plot



— 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: 18998.9
Efficiency: 48.1%

Field:
H Angle: 101.7°
V Angle: 101.8°
Lumens: 34678.2
Efficiency: 87.8%

Spill:
Lumens: 4836.7
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	4	8	16	24	33	41	49	53	57	65
85°	0	8	16	28	45	65	85	97	106	118	126
82.5°	0	12	28	45	69	93	126	142	158	175	187
80°	0	16	37	61	89	126	166	187	207	227	244
77.5°	0	20	45	73	114	154	203	231	256	280	305
75°	0	24	53	89	134	179	236	272	305	337	374
72.5°	0	28	61	102	150	203	268	313	349	394	443
70°	0	33	69	118	166	227	300	349	394	447	487
67.5°	0	37	77	126	183	248	325	386	434	483	528
65°	0	37	85	134	195	268	345	418	471	520	572
62.5°	0	41	93	142	207	284	365	447	503	556	617
60°	0	45	97	150	223	300	390	475	532	597	662
57.5°	0	49	102	158	231	313	406	499	568	637	706
55°	0	53	110	166	240	329	422	524	601	674	751
52.5°	0	53	114	171	252	341	438	540	633	715	804
50°	0	57	118	175	260	353	451	560	666	755	848
47.5°	0	61	122	179	264	361	467	581	702	796	897
45°	0	61	126	183	272	374	479	593	727	836	942
42.5°	0	65	126	187	276	382	491	613	747	877	991
40°	0	69	130	195	284	386	503	629	771	918	1035
37.5°	0	69	134	199	288	394	512	646	796	946	1076
35°	0	73	138	203	292	398	516	662	816	974	1120
32.5°	0	73	138	211	296	406	524	674	840	1007	1161
30°	0	73	142	215	296	406	536	686	861	1039	1202
27.5°	0	77	142	215	305	410	544	702	881	1076	1242
25°	0	77	146	219	309	410	548	715	905	1108	1279
22.5°	0	77	146	223	313	414	552	727	930	1137	1319
20°	0	81	150	227	317	418	556	739	954	1161	1352
17.5°	0	81	150	227	321	426	560	747	974	1185	1380
15°	0	85	150	227	321	430	568	751	995	1206	1409
12.5°	0	85	150	231	321	430	572	759	1015	1226	1429
10°	0	81	154	231	321	434	577	763	1027	1238	1449
7.5°	0	81	154	231	325	434	577	763	1039	1250	1461
5°	0	81	150	231	321	438	577	767	1056	1263	1474
2.5°	0	81	150	227	321	438	568	759	1051	1263	1482
0°	0	81	150	227	321	438	568	759	1051	1263	1482
-2.5°	0	81	150	227	321	438	568	759	1051	1263	1482
-5°	0	81	150	231	321	438	577	767	1056	1263	1474
-7.5°	0	81	154	231	325	434	577	763	1039	1250	1461
-10°	0	81	154	231	321	434	577	763	1027	1238	1449
-12.5°	0	85	150	231	321	430	572	759	1015	1226	1429
-15°	0	85	150	227	321	430	568	751	995	1206	1409
-17.5°	0	81	150	227	321	426	560	747	974	1185	1380
-20°	0	81	150	227	317	418	556	739	954	1161	1352



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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	77	146	223	313	414	552	727	930	1137	1319
-25°	0	77	146	219	309	410	548	715	905	1108	1279
-27.5°	0	77	142	215	305	410	544	702	881	1076	1242
-30°	0	73	142	215	296	406	536	686	861	1039	1202
-32.5°	0	73	138	211	296	406	524	674	840	1007	1161
-35°	0	73	138	203	292	398	516	662	816	974	1120
-37.5°	0	69	134	199	288	394	512	646	796	946	1076
-40°	0	69	130	195	284	386	503	629	771	918	1035
-42.5°	0	65	126	187	276	382	491	613	747	877	991
-45°	0	61	126	183	272	374	479	593	727	836	942
-47.5°	0	61	122	179	264	361	467	581	702	796	897
-50°	0	57	118	175	260	353	451	560	666	755	848
-52.5°	0	53	114	171	252	341	438	540	633	715	804
-55°	0	53	110	166	240	329	422	524	601	674	751
-57.5°	0	49	102	158	231	313	406	499	568	637	706
-60°	0	45	97	150	223	300	390	475	532	597	662
-62.5°	0	41	93	142	207	284	365	447	503	556	617
-65°	0	37	85	134	195	268	345	418	471	520	572
-67.5°	0	37	77	126	183	248	325	386	434	483	528
-70°	0	33	69	118	166	227	300	349	394	447	487
-72.5°	0	28	61	102	150	203	268	313	349	394	443
-75°	0	24	53	89	134	179	236	272	305	337	374
-77.5°	0	20	45	73	114	154	203	231	256	280	305
-80°	0	16	37	61	89	126	166	187	207	227	244
-82.5°	0	12	28	45	69	93	126	142	158	175	187
-85°	0	8	16	28	45	65	85	97	106	118	126
-87.5°	0	4	8	16	24	33	41	49	53	57	65
-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°	69	73	77	77	77	73	69	65	73	81	89
85°	134	146	150	158	154	146	142	134	150	166	187
82.5°	199	211	219	227	227	219	211	199	223	248	276
80°	260	276	292	305	305	292	280	264	292	329	365
77.5°	333	353	369	386	382	378	369	361	390	426	463
75°	406	434	447	463	471	467	467	475	507	552	593
72.5°	471	491	516	544	556	564	585	609	641	678	710
70°	524	548	581	609	633	658	686	719	751	788	820
67.5°	572	609	641	678	710	747	784	820	857	897	938
65°	625	666	706	747	792	836	881	922	966	1019	1064
62.5°	678	723	771	820	873	926	978	1031	1092	1149	1206
60°	727	784	840	901	962	1023	1080	1149	1222	1287	1360
57.5°	775	844	909	978	1047	1116	1198	1275	1360	1445	1526
55°	828	909	982	1060	1137	1226	1315	1413	1506	1616	1717
52.5°	885	970	1056	1141	1238	1336	1441	1555	1677	1802	1928
50°	942	1035	1129	1230	1340	1453	1579	1713	1859	2005	2160
47.5°	995	1096	1210	1319	1445	1579	1725	1888	2050	2233	2428
45°	1051	1161	1283	1417	1555	1713	1888	2066	2273	2480	2708
42.5°	1108	1226	1364	1506	1677	1855	2046	2273	2505	2761	3037
40°	1157	1291	1445	1616	1798	1997	2233	2480	2765	3069	3410
37.5°	1214	1360	1526	1713	1924	2156	2428	2716	3045	3414	3824
35°	1267	1429	1612	1815	2050	2318	2623	2959	3341	3788	4287
32.5°	1319	1498	1693	1916	2176	2480	2826	3223	3674	4185	4811
30°	1372	1559	1770	2014	2306	2651	3049	3491	4011	4656	5399
27.5°	1421	1624	1851	2119	2432	2809	3260	3788	4401	5127	5996
25°	1470	1681	1928	2217	2566	2980	3471	4051	4786	5647	6678
22.5°	1514	1738	1997	2310	2687	3146	3698	4360	5168	6126	7340
20°	1559	1794	2070	2399	2793	3296	3905	4644	5562	6690	8038
17.5°	1595	1847	2139	2493	2923	3451	4096	4928	5919	7210	8712
15°	1632	1892	2200	2574	3037	3605	4303	5176	6296	7701	9296
12.5°	1660	1928	2253	2647	3134	3735	4482	5428	6662	8164	9804
10°	1681	1961	2294	2704	3215	3840	4628	5631	6958	8541	10226
7.5°	1701	1985	2326	2748	3276	3922	4742	5789	7185	8834	10551
5°	1717	2005	2351	2781	3317	3982	4827	5890	7348	9041	10782
2.5°	1729	2022	2371	2809	3349	4047	4904	6000	7502	9215	10989
0°	1729	2026	2371	2809	3345	4060	4916	6008	7522	9211	11018
-2.5°	1729	2022	2371	2809	3349	4047	4904	6000	7502	9215	10989
-5°	1717	2005	2351	2781	3317	3982	4827	5890	7348	9041	10782
-7.5°	1701	1985	2326	2748	3276	3922	4742	5789	7185	8834	10551
-10°	1681	1961	2294	2704	3215	3840	4628	5631	6958	8541	10226
-12.5°	1660	1928	2253	2647	3134	3735	4482	5428	6662	8164	9804
-15°	1632	1892	2200	2574	3037	3605	4303	5176	6296	7701	9296
-17.5°	1595	1847	2139	2493	2923	3451	4096	4928	5919	7210	8712
-20°	1559	1794	2070	2399	2793	3296	3905	4644	5562	6690	8038



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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°	1514	1738	1997	2310	2687	3146	3698	4360	5168	6126	7340
-25°	1470	1681	1928	2217	2566	2980	3471	4051	4786	5647	6678
-27.5°	1421	1624	1851	2119	2432	2809	3260	3788	4401	5127	5996
-30°	1372	1559	1770	2014	2306	2651	3049	3491	4011	4656	5399
-32.5°	1319	1498	1693	1916	2176	2480	2826	3223	3674	4185	4811
-35°	1267	1429	1612	1815	2050	2318	2623	2959	3341	3788	4287
-37.5°	1214	1360	1526	1713	1924	2156	2428	2716	3045	3414	3824
-40°	1157	1291	1445	1616	1798	1997	2233	2480	2765	3069	3410
-42.5°	1108	1226	1364	1506	1677	1855	2046	2273	2505	2761	3037
-45°	1051	1161	1283	1417	1555	1713	1888	2066	2273	2480	2708
-47.5°	995	1096	1210	1319	1445	1579	1725	1888	2050	2233	2428
-50°	942	1035	1129	1230	1340	1453	1579	1713	1859	2005	2160
-52.5°	885	970	1056	1141	1238	1336	1441	1555	1677	1802	1928
-55°	828	909	982	1060	1137	1226	1315	1413	1506	1616	1717
-57.5°	775	844	909	978	1047	1116	1198	1275	1360	1445	1526
-60°	727	784	840	901	962	1023	1080	1149	1222	1287	1360
-62.5°	678	723	771	820	873	926	978	1031	1092	1149	1206
-65°	625	666	706	747	792	836	881	922	966	1019	1064
-67.5°	572	609	641	678	710	747	784	820	857	897	938
-70°	524	548	581	609	633	658	686	719	751	788	820
-72.5°	471	491	516	544	556	564	585	609	641	678	710
-75°	406	434	447	463	471	467	467	475	507	552	593
-77.5°	333	353	369	386	382	378	369	361	390	426	463
-80°	260	276	292	305	305	292	280	264	292	329	365
-82.5°	199	211	219	227	227	219	211	199	223	248	276
-85°	134	146	150	158	154	146	142	134	150	166	187
-87.5°	69	73	77	77	77	73	69	65	73	81	89
-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°	102	102	102	102	97	102	102	106	110	97	85
85°	203	207	207	207	207	207	207	207	207	187	166
82.5°	305	317	325	337	345	345	341	337	329	296	260
80°	402	422	434	447	459	455	451	443	438	398	357
77.5°	499	524	540	552	564	568	564	564	560	524	479
75°	625	646	662	678	694	702	706	706	706	674	633
72.5°	739	763	788	812	832	844	857	865	873	857	832
70°	857	885	913	942	970	991	1007	1023	1031	1035	1035
67.5°	978	1015	1051	1088	1120	1149	1169	1190	1206	1222	1230
65°	1112	1161	1206	1246	1283	1319	1348	1376	1401	1421	1433
62.5°	1263	1319	1372	1425	1466	1510	1555	1595	1628	1656	1677
60°	1429	1498	1563	1628	1693	1746	1802	1851	1892	1928	1961
57.5°	1616	1701	1782	1867	1941	2010	2079	2148	2208	2257	2298
55°	1823	1928	2034	2135	2237	2330	2420	2509	2590	2655	2712
52.5°	2062	2188	2322	2448	2586	2708	2821	2943	3053	3150	3231
50°	2318	2480	2655	2817	2996	3167	3321	3475	3629	3763	3873
47.5°	2618	2813	3041	3264	3483	3715	3930	4133	4344	4522	4673
45°	2943	3215	3483	3784	4060	4372	4669	4965	5225	5485	5704
42.5°	3329	3670	4011	4397	4774	5168	5586	5959	6349	6731	7047
40°	3788	4190	4660	5123	5647	6142	6735	7259	7754	8237	8647
37.5°	4291	4823	5403	5992	6702	7401	8095	8752	9341	9881	10311
35°	4872	5541	6231	7088	7932	8785	9581	10328	10997	11545	12000
32.5°	5537	6329	7283	8277	9256	10202	11152	11891	12589	13214	13750
30°	6244	7275	8387	9499	10567	11594	12552	13441	14253	14955	15556
27.5°	7072	8265	9503	10697	11842	12950	14038	15053	15942	16681	17428
25°	7892	9260	10583	11846	13084	14322	15520	16660	17700	18605	19413
22.5°	8757	10185	11582	12922	14326	15674	16985	18284	19478	20521	21430
20°	9556	11091	12516	14010	15532	16993	18467	19872	21203	22462	23497
17.5°	10271	11834	13388	14964	16624	18280	19880	21402	22920	24386	25677
15°	10908	12548	14144	15861	17651	19433	21215	22892	24601	26225	27670
12.5°	11472	13165	14862	16689	18560	20416	22368	24317	26213	27962	29529
10°	11939	13697	15516	17407	19352	21313	23416	25579	27609	29468	31173
7.5°	12292	14099	15999	17964	20014	22112	24309	26513	28661	30658	32444
5°	12544	14367	16319	18325	20460	22652	24995	27345	29537	31604	33431
2.5°	12771	14606	16596	18524	20700	22973	25320	27755	29996	32119	34153
0°	12832	14704	16713	18694	20809	23091	25482	27861	30159	32464	34376
-2.5°	12771	14606	16596	18524	20700	22973	25320	27755	29996	32119	34153
-5°	12544	14367	16319	18325	20460	22652	24995	27345	29537	31604	33431
-7.5°	12292	14099	15999	17964	20014	22112	24309	26513	28661	30658	32444
-10°	11939	13697	15516	17407	19352	21313	23416	25579	27609	29468	31173
-12.5°	11472	13165	14862	16689	18560	20416	22368	24317	26213	27962	29529
-15°	10908	12548	14144	15861	17651	19433	21215	22892	24601	26225	27670
-17.5°	10271	11834	13388	14964	16624	18280	19880	21402	22920	24386	25677
-20°	9556	11091	12516	14010	15532	16993	18467	19872	21203	22462	23497



REPORT NUMBER: P622356
 CATALOG NUMBER: EPH-VN-07-E-935-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8757	10185	11582	12922	14326	15674	16985	18284	19478	20521	21430
-25°	7892	9260	10583	11846	13084	14322	15520	16660	17700	18605	19413
-27.5°	7072	8265	9503	10697	11842	12950	14038	15053	15942	16681	17428
-30°	6244	7275	8387	9499	10567	11594	12552	13441	14253	14955	15556
-32.5°	5537	6329	7283	8277	9256	10202	11152	11891	12589	13214	13750
-35°	4872	5541	6231	7088	7932	8785	9581	10328	10997	11545	12000
-37.5°	4291	4823	5403	5992	6702	7401	8095	8752	9341	9881	10311
-40°	3788	4190	4660	5123	5647	6142	6735	7259	7754	8237	8647
-42.5°	3329	3670	4011	4397	4774	5168	5586	5959	6349	6731	7047
-45°	2943	3215	3483	3784	4060	4372	4669	4965	5225	5485	5704
-47.5°	2618	2813	3041	3264	3483	3715	3930	4133	4344	4522	4673
-50°	2318	2480	2655	2817	2996	3167	3321	3475	3629	3763	3873
-52.5°	2062	2188	2322	2448	2586	2708	2821	2943	3053	3150	3231
-55°	1823	1928	2034	2135	2237	2330	2420	2509	2590	2655	2712
-57.5°	1616	1701	1782	1867	1941	2010	2079	2148	2208	2257	2298
-60°	1429	1498	1563	1628	1693	1746	1802	1851	1892	1928	1961
-62.5°	1263	1319	1372	1425	1466	1510	1555	1595	1628	1656	1677
-65°	1112	1161	1206	1246	1283	1319	1348	1376	1401	1421	1433
-67.5°	978	1015	1051	1088	1120	1149	1169	1190	1206	1222	1230
-70°	857	885	913	942	970	991	1007	1023	1031	1035	1035
-72.5°	739	763	788	812	832	844	857	865	873	875	875
-75°	625	646	662	678	694	702	706	706	706	674	633
-77.5°	499	524	540	552	564	568	564	564	560	524	479
-80°	402	422	434	447	459	455	451	443	438	398	357
-82.5°	305	317	325	337	345	345	341	337	329	296	260
-85°	203	207	207	207	207	207	207	207	207	187	166
-87.5°	102	102	102	102	97	102	102	106	110	97	85
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622356
 CATALOG NUMBER: EPH-VN-07-E-935-U-66

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	69	57	53	45	53	57	69	85	97	110	106
85°	142	118	114	106	114	118	142	166	187	207	207
82.5°	227	187	179	171	179	187	227	260	296	329	337
80°	321	272	264	256	264	272	321	357	398	438	443
77.5°	434	390	374	361	374	390	434	479	524	560	564
75°	589	544	532	520	532	544	589	633	674	706	706
72.5°	804	784	751	723	751	784	804	832	857	873	865
70°	1039	1047	1039	1027	1039	1047	1039	1035	1035	1031	1023
67.5°	1234	1242	1242	1246	1242	1242	1234	1230	1222	1206	1190
65°	1445	1449	1461	1466	1461	1449	1445	1433	1421	1401	1376
62.5°	1689	1701	1709	1709	1709	1701	1689	1677	1656	1628	1595
60°	1981	1997	2018	2022	2018	1997	1981	1961	1928	1892	1851
57.5°	2330	2351	2379	2387	2379	2351	2330	2298	2257	2208	2148
55°	2752	2781	2797	2789	2797	2781	2752	2712	2655	2590	2509
52.5°	3300	3349	3382	3365	3382	3349	3300	3231	3150	3053	2943
50°	3962	4023	4064	4051	4064	4023	3962	3873	3763	3629	3475
47.5°	4790	4876	4945	4949	4945	4876	4790	4673	4522	4344	4133
45°	5878	6004	6098	6081	6098	6004	5878	5704	5485	5225	4965
42.5°	7291	7466	7604	7591	7604	7466	7291	7047	6731	6349	5959
40°	8951	9167	9349	9398	9349	9167	8951	8647	8237	7754	7259
37.5°	10660	10937	11168	11144	11168	10937	10660	10311	9881	9341	8752
35°	12378	12666	12893	12914	12893	12666	12378	12000	11545	10997	10328
32.5°	14176	14497	14765	14801	14765	14497	14176	13750	13214	12589	11891
30°	16052	16437	16758	16823	16758	16437	16052	15556	14955	14253	13441
27.5°	18024	18483	18788	18905	18788	18483	18024	17428	16681	15942	15053
25°	20058	20558	20899	21089	20899	20558	20058	19413	18605	17700	16660
22.5°	22181	22774	23217	23428	23217	22774	22181	21430	20521	19478	18284
20°	24374	25019	25535	25754	25535	25019	24374	23497	22462	21203	19872
17.5°	26606	27394	27966	28246	27966	27394	26606	25677	24386	22920	21402
15°	28774	29610	30232	30532	30232	29610	28774	27670	26225	24601	22892
12.5°	30784	31669	32290	32724	32290	31669	30784	29529	27962	26213	24317
10°	32578	33544	34173	34624	34173	33544	32578	31173	29468	27609	25579
7.5°	33922	35144	35854	36297	35854	35144	33922	32444	30658	28661	26513
5°	34953	36301	36946	37364	36946	36301	34953	33431	31604	29537	27345
2.5°	35708	36772	37579	37998	37579	36772	35708	34153	32119	29996	27755
0°	36004	37255	37827	38099	37827	37255	36004	34376	32464	30159	27861
-2.5°	35708	36772	37579	37998	37579	36772	35708	34153	32119	29996	27755
-5°	34953	36301	36946	37364	36946	36301	34953	33431	31604	29537	27345
-7.5°	33922	35144	35854	36297	35854	35144	33922	32444	30658	28661	26513
-10°	32578	33544	34173	34624	34173	33544	32578	31173	29468	27609	25579
-12.5°	30784	31669	32290	32724	32290	31669	30784	29529	27962	26213	24317
-15°	28774	29610	30232	30532	30232	29610	28774	27670	26225	24601	22892
-17.5°	26606	27394	27966	28246	27966	27394	26606	25677	24386	22920	21402
-20°	24374	25019	25535	25754	25535	25019	24374	23497	22462	21203	19872



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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°	22181	22774	23217	23428	23217	22774	22181	21430	20521	19478	18284
-25°	20058	20558	20899	21089	20899	20558	20058	19413	18605	17700	16660
-27.5°	18024	18483	18788	18905	18788	18483	18024	17428	16681	15942	15053
-30°	16052	16437	16758	16823	16758	16437	16052	15556	14955	14253	13441
-32.5°	14176	14497	14765	14801	14765	14497	14176	13750	13214	12589	11891
-35°	12378	12666	12893	12914	12893	12666	12378	12000	11545	10997	10328
-37.5°	10660	10937	11168	11144	11168	10937	10660	10311	9881	9341	8752
-40°	8951	9167	9349	9398	9349	9167	8951	8647	8237	7754	7259
-42.5°	7291	7466	7604	7591	7604	7466	7291	7047	6731	6349	5959
-45°	5878	6004	6098	6081	6098	6004	5878	5704	5485	5225	4965
-47.5°	4790	4876	4945	4949	4945	4876	4790	4673	4522	4344	4133
-50°	3962	4023	4064	4051	4064	4023	3962	3873	3763	3629	3475
-52.5°	3300	3349	3382	3365	3382	3349	3300	3231	3150	3053	2943
-55°	2752	2781	2797	2789	2797	2781	2752	2712	2655	2590	2509
-57.5°	2330	2351	2379	2387	2379	2351	2330	2298	2257	2208	2148
-60°	1981	1997	2018	2022	2018	1997	1981	1961	1928	1892	1851
-62.5°	1689	1701	1709	1709	1709	1701	1689	1677	1656	1628	1595
-65°	1445	1449	1461	1466	1461	1449	1445	1433	1421	1401	1376
-67.5°	1234	1242	1242	1246	1242	1242	1234	1230	1222	1206	1190
-70°	1039	1047	1039	1027	1039	1047	1039	1035	1035	1031	1023
-72.5°	804	784	751	723	751	784	804	832	857	873	865
-75°	589	544	532	520	532	544	589	633	674	706	706
-77.5°	434	390	374	361	374	390	434	479	524	560	564
-80°	321	272	264	256	264	272	321	357	398	438	443
-82.5°	227	187	179	171	179	187	227	260	296	329	337
-85°	142	118	114	106	114	118	142	166	187	207	207
-87.5°	69	57	53	45	53	57	69	85	97	110	106
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622356
 CATALOG NUMBER: EPH-VN-07-E-935-U-66

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°	102	102	97	102	102	102	102	89	81	73	65
85°	207	207	207	207	207	207	203	187	166	150	134
82.5°	341	345	345	337	325	317	305	276	248	223	199
80°	451	455	459	447	434	422	402	365	329	292	264
77.5°	564	568	564	552	540	524	499	463	426	390	361
75°	706	702	694	678	662	646	625	593	552	507	475
72.5°	857	844	832	812	788	763	739	710	678	641	609
70°	1007	991	970	942	913	885	857	820	788	751	719
67.5°	1169	1149	1120	1088	1051	1015	978	938	897	857	820
65°	1348	1319	1283	1246	1206	1161	1112	1064	1019	966	922
62.5°	1555	1510	1466	1425	1372	1319	1263	1206	1149	1092	1031
60°	1802	1746	1693	1628	1563	1498	1429	1360	1287	1222	1149
57.5°	2079	2010	1941	1867	1782	1701	1616	1526	1445	1360	1275
55°	2420	2330	2237	2135	2034	1928	1823	1717	1616	1506	1413
52.5°	2821	2708	2586	2448	2322	2188	2062	1928	1802	1677	1555
50°	3321	3167	2996	2817	2655	2480	2318	2160	2005	1859	1713
47.5°	3930	3715	3483	3264	3041	2813	2618	2428	2233	2050	1888
45°	4669	4372	4060	3784	3483	3215	2943	2708	2480	2273	2066
42.5°	5586	5168	4774	4397	4011	3670	3329	3037	2761	2505	2273
40°	6735	6142	5647	5123	4660	4190	3788	3410	3069	2765	2480
37.5°	8095	7401	6702	5992	5403	4823	4291	3824	3414	3045	2716
35°	9581	8785	7932	7088	6231	5541	4872	4287	3788	3341	2959
32.5°	11152	10202	9256	8277	7283	6329	5537	4811	4185	3674	3223
30°	12552	11594	10567	9499	8387	7275	6244	5399	4656	4011	3491
27.5°	14038	12950	11842	10697	9503	8265	7072	5996	5127	4401	3788
25°	15520	14322	13084	11846	10583	9260	7892	6678	5647	4786	4051
22.5°	16985	15674	14326	12922	11582	10185	8757	7340	6126	5168	4360
20°	18467	16993	15532	14010	12516	11091	9556	8038	6690	5562	4644
17.5°	19880	18280	16624	14964	13388	11834	10271	8712	7210	5919	4928
15°	21215	19433	17651	15861	14144	12548	10908	9296	7701	6296	5176
12.5°	22368	20416	18560	16689	14862	13165	11472	9804	8164	6662	5428
10°	23416	21313	19352	17407	15516	13697	11939	10226	8541	6958	5631
7.5°	24309	22112	20014	17964	15999	14099	12292	10551	8834	7185	5789
5°	24995	22652	20460	18325	16319	14367	12544	10782	9041	7348	5890
2.5°	25320	22973	20700	18524	16596	14606	12771	10989	9215	7502	6000
0°	25482	23091	20809	18694	16713	14704	12832	11018	9211	7522	6008
-2.5°	25320	22973	20700	18524	16596	14606	12771	10989	9215	7502	6000
-5°	24995	22652	20460	18325	16319	14367	12544	10782	9041	7348	5890
-7.5°	24309	22112	20014	17964	15999	14099	12292	10551	8834	7185	5789
-10°	23416	21313	19352	17407	15516	13697	11939	10226	8541	6958	5631
-12.5°	22368	20416	18560	16689	14862	13165	11472	9804	8164	6662	5428
-15°	21215	19433	17651	15861	14144	12548	10908	9296	7701	6296	5176
-17.5°	19880	18280	16624	14964	13388	11834	10271	8712	7210	5919	4928
-20°	18467	16993	15532	14010	12516	11091	9556	8038	6690	5562	4644



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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°	16985	15674	14326	12922	11582	10185	8757	7340	6126	5168	4360
-25°	15520	14322	13084	11846	10583	9260	7892	6678	5647	4786	4051
-27.5°	14038	12950	11842	10697	9503	8265	7072	5996	5127	4401	3788
-30°	12552	11594	10567	9499	8387	7275	6244	5399	4656	4011	3491
-32.5°	11152	10202	9256	8277	7283	6329	5537	4811	4185	3674	3223
-35°	9581	8785	7932	7088	6231	5541	4872	4287	3788	3341	2959
-37.5°	8095	7401	6702	5992	5403	4823	4291	3824	3414	3045	2716
-40°	6735	6142	5647	5123	4660	4190	3788	3410	3069	2765	2480
-42.5°	5586	5168	4774	4397	4011	3670	3329	3037	2761	2505	2273
-45°	4669	4372	4060	3784	3483	3215	2943	2708	2480	2273	2066
-47.5°	3930	3715	3483	3264	3041	2813	2618	2428	2233	2050	1888
-50°	3321	3167	2996	2817	2655	2480	2318	2160	2005	1859	1713
-52.5°	2821	2708	2586	2448	2322	2188	2062	1928	1802	1677	1555
-55°	2420	2330	2237	2135	2034	1928	1823	1717	1616	1506	1413
-57.5°	2079	2010	1941	1867	1782	1701	1616	1526	1445	1360	1275
-60°	1802	1746	1693	1628	1563	1498	1429	1360	1287	1222	1149
-62.5°	1555	1510	1466	1425	1372	1319	1263	1206	1149	1092	1031
-65°	1348	1319	1283	1246	1206	1161	1112	1064	1019	966	922
-67.5°	1169	1149	1120	1088	1051	1015	978	938	897	857	820
-70°	1007	991	970	942	913	885	857	820	788	751	719
-72.5°	857	844	832	812	788	763	739	710	678	641	609
-75°	706	702	694	678	662	646	625	593	552	507	475
-77.5°	564	568	564	552	540	524	499	463	426	390	361
-80°	451	455	459	447	434	422	402	365	329	292	264
-82.5°	341	345	345	337	325	317	305	276	248	223	199
-85°	207	207	207	207	207	207	203	187	166	150	134
-87.5°	102	102	97	102	102	102	102	89	81	73	65
-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°	69	73	77	77	77	73	69	65	57	53	49
85°	142	146	154	158	150	146	134	126	118	106	97
82.5°	211	219	227	227	219	211	199	187	175	158	142
80°	280	292	305	305	292	276	260	244	227	207	187
77.5°	369	378	382	386	369	353	333	305	280	256	231
75°	467	467	471	463	447	434	406	374	337	305	272
72.5°	585	564	556	544	516	491	471	443	394	349	313
70°	686	658	633	609	581	548	524	487	447	394	349
67.5°	784	747	710	678	641	609	572	528	483	434	386
65°	881	836	792	747	706	666	625	572	520	471	418
62.5°	978	926	873	820	771	723	678	617	556	503	447
60°	1080	1023	962	901	840	784	727	662	597	532	475
57.5°	1198	1116	1047	978	909	844	775	706	637	568	499
55°	1315	1226	1137	1060	982	909	828	751	674	601	524
52.5°	1441	1336	1238	1141	1056	970	885	804	715	633	540
50°	1579	1453	1340	1230	1129	1035	942	848	755	666	560
47.5°	1725	1579	1445	1319	1210	1096	995	897	796	702	581
45°	1888	1713	1555	1417	1283	1161	1051	942	836	727	593
42.5°	2046	1855	1677	1506	1364	1226	1108	991	877	747	613
40°	2233	1997	1798	1616	1445	1291	1157	1035	918	771	629
37.5°	2428	2156	1924	1713	1526	1360	1214	1076	946	796	646
35°	2623	2318	2050	1815	1612	1429	1267	1120	974	816	662
32.5°	2826	2480	2176	1916	1693	1498	1319	1161	1007	840	674
30°	3049	2651	2306	2014	1770	1559	1372	1202	1039	861	686
27.5°	3260	2809	2432	2119	1851	1624	1421	1242	1076	881	702
25°	3471	2980	2566	2217	1928	1681	1470	1279	1108	905	715
22.5°	3698	3146	2687	2310	1997	1738	1514	1319	1137	930	727
20°	3905	3296	2793	2399	2070	1794	1559	1352	1161	954	739
17.5°	4096	3451	2923	2493	2139	1847	1595	1380	1185	974	747
15°	4303	3605	3037	2574	2200	1892	1632	1409	1206	995	751
12.5°	4482	3735	3134	2647	2253	1928	1660	1429	1226	1015	759
10°	4628	3840	3215	2704	2294	1961	1681	1449	1238	1027	763
7.5°	4742	3922	3276	2748	2326	1985	1701	1461	1250	1039	763
5°	4827	3982	3317	2781	2351	2005	1717	1474	1263	1056	767
2.5°	4904	4047	3349	2809	2371	2022	1729	1482	1263	1051	759
0°	4916	4060	3345	2809	2371	2026	1729	1482	1259	1047	751
-2.5°	4904	4047	3349	2809	2371	2022	1729	1482	1263	1051	759
-5°	4827	3982	3317	2781	2351	2005	1717	1474	1263	1056	767
-7.5°	4742	3922	3276	2748	2326	1985	1701	1461	1250	1039	763
-10°	4628	3840	3215	2704	2294	1961	1681	1449	1238	1027	763
-12.5°	4482	3735	3134	2647	2253	1928	1660	1429	1226	1015	759
-15°	4303	3605	3037	2574	2200	1892	1632	1409	1206	995	751
-17.5°	4096	3451	2923	2493	2139	1847	1595	1380	1185	974	747
-20°	3905	3296	2793	2399	2070	1794	1559	1352	1161	954	739



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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°	3698	3146	2687	2310	1997	1738	1514	1319	1137	930	727
-25°	3471	2980	2566	2217	1928	1681	1470	1279	1108	905	715
-27.5°	3260	2809	2432	2119	1851	1624	1421	1242	1076	881	702
-30°	3049	2651	2306	2014	1770	1559	1372	1202	1039	861	686
-32.5°	2826	2480	2176	1916	1693	1498	1319	1161	1007	840	674
-35°	2623	2318	2050	1815	1612	1429	1267	1120	974	816	662
-37.5°	2428	2156	1924	1713	1526	1360	1214	1076	946	796	646
-40°	2233	1997	1798	1616	1445	1291	1157	1035	918	771	629
-42.5°	2046	1855	1677	1506	1364	1226	1108	991	877	747	613
-45°	1888	1713	1555	1417	1283	1161	1051	942	836	727	593
-47.5°	1725	1579	1445	1319	1210	1096	995	897	796	702	581
-50°	1579	1453	1340	1230	1129	1035	942	848	755	666	560
-52.5°	1441	1336	1238	1141	1056	970	885	804	715	633	540
-55°	1315	1226	1137	1060	982	909	828	751	674	601	524
-57.5°	1198	1116	1047	978	909	844	775	706	637	568	499
-60°	1080	1023	962	901	840	784	727	662	597	532	475
-62.5°	978	926	873	820	771	723	678	617	556	503	447
-65°	881	836	792	747	706	666	625	572	520	471	418
-67.5°	784	747	710	678	641	609	572	528	483	434	386
-70°	686	658	633	609	581	548	524	487	447	394	349
-72.5°	585	564	556	544	516	491	471	443	394	349	313
-75°	467	467	471	463	447	434	406	374	337	305	272
-77.5°	369	378	382	386	369	353	333	305	280	256	231
-80°	280	292	305	305	292	276	260	244	227	207	187
-82.5°	211	219	227	227	219	211	199	187	175	158	142
-85°	142	146	154	158	150	146	134	126	118	106	97
-87.5°	69	73	77	77	77	73	69	65	57	53	49
-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°	41	33	24	16	8	4	0
85°	85	65	45	28	16	8	0
82.5°	126	93	69	45	28	12	0
80°	166	126	89	61	37	16	0
77.5°	203	154	114	73	45	20	0
75°	236	179	134	89	53	24	0
72.5°	268	203	150	102	61	28	0
70°	300	227	166	118	69	33	0
67.5°	325	248	183	126	77	37	0
65°	345	268	195	134	85	37	0
62.5°	365	284	207	142	93	41	0
60°	390	300	223	150	97	45	0
57.5°	406	313	231	158	102	49	0
55°	422	329	240	166	110	53	0
52.5°	438	341	252	171	114	53	0
50°	451	353	260	175	118	57	0
47.5°	467	361	264	179	122	61	0
45°	479	374	272	183	126	61	0
42.5°	491	382	276	187	126	65	0
40°	503	386	284	195	130	69	0
37.5°	512	394	288	199	134	69	0
35°	516	398	292	203	138	73	0
32.5°	524	406	296	211	138	73	0
30°	536	406	296	215	142	73	0
27.5°	544	410	305	215	142	77	0
25°	548	410	309	219	146	77	0
22.5°	552	414	313	223	146	77	0
20°	556	418	317	227	150	81	0
17.5°	560	426	321	227	150	81	0
15°	568	430	321	227	150	85	0
12.5°	572	430	321	231	150	85	0
10°	577	434	321	231	154	81	0
7.5°	577	434	325	231	154	81	0
5°	577	438	321	231	150	81	0
2.5°	568	438	321	227	150	81	0
0°	564	434	317	227	150	81	0
-2.5°	568	438	321	227	150	81	0
-5°	577	438	321	231	150	81	0
-7.5°	577	434	325	231	154	81	0
-10°	577	434	321	231	154	81	0
-12.5°	572	430	321	231	150	85	0
-15°	568	430	321	227	150	85	0
-17.5°	560	426	321	227	150	81	0
-20°	556	418	317	227	150	81	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	552	414	313	223	146	77	0
-25°	548	410	309	219	146	77	0
-27.5°	544	410	305	215	142	77	0
-30°	536	406	296	215	142	73	0
-32.5°	524	406	296	211	138	73	0
-35°	516	398	292	203	138	73	0
-37.5°	512	394	288	199	134	69	0
-40°	503	386	284	195	130	69	0
-42.5°	491	382	276	187	126	65	0
-45°	479	374	272	183	126	61	0
-47.5°	467	361	264	179	122	61	0
-50°	451	353	260	175	118	57	0
-52.5°	438	341	252	171	114	53	0
-55°	422	329	240	166	110	53	0
-57.5°	406	313	231	158	102	49	0
-60°	390	300	223	150	97	45	0
-62.5°	365	284	207	142	93	41	0
-65°	345	268	195	134	85	37	0
-67.5°	325	248	183	126	77	37	0
-70°	300	227	166	118	69	33	0
-72.5°	268	203	150	102	61	28	0
-75°	236	179	134	89	53	24	0
-77.5°	203	154	114	73	45	20	0
-80°	166	126	89	61	37	16	0
-82.5°	126	93	69	45	28	12	0
-85°	85	65	45	28	16	8	0
-87.5°	41	33	24	16	8	4	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)