

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: P621388

Luminaire Tested: **EPH-VN-08-D-740-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P621388
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-740-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

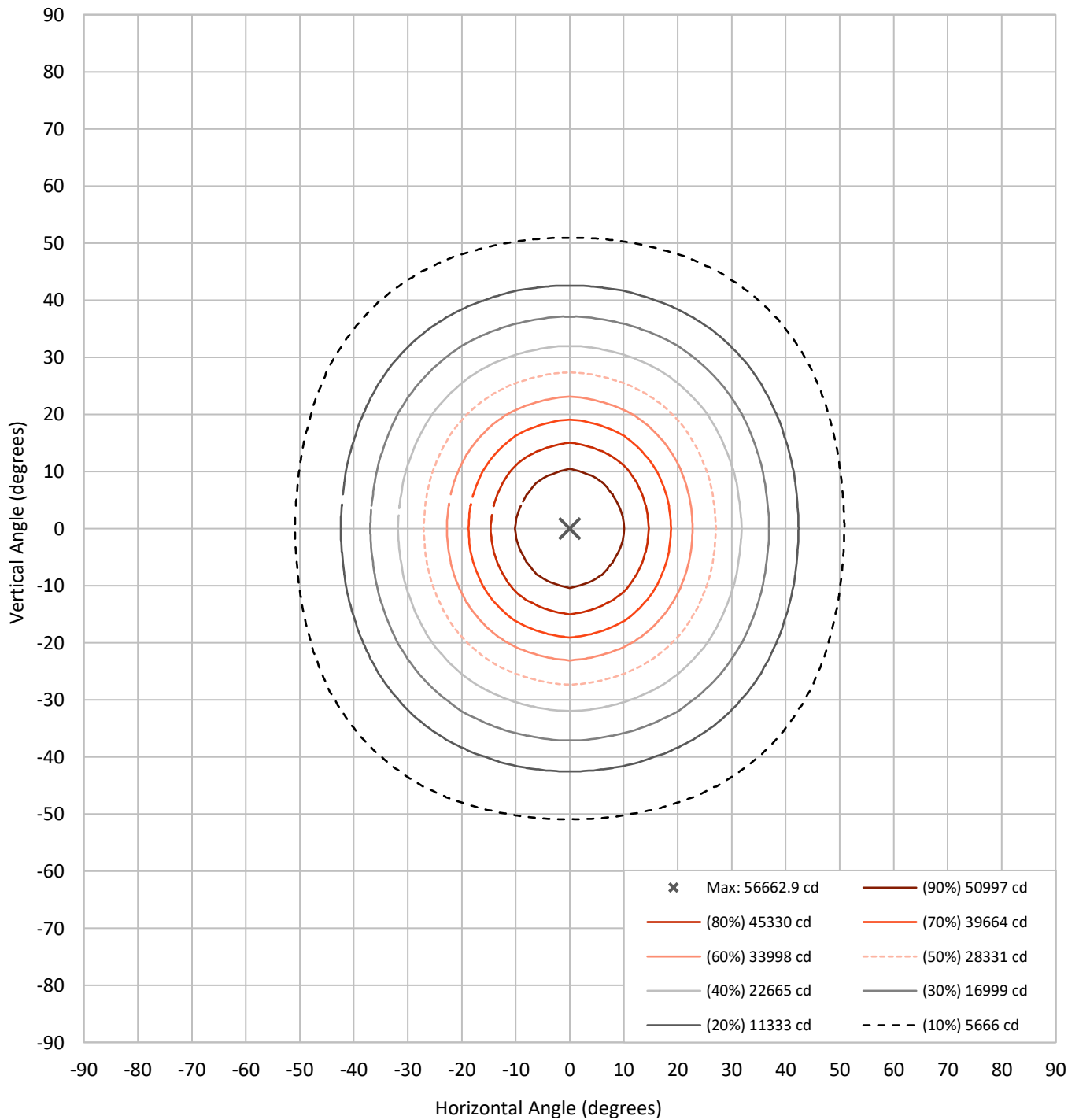
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	58768.7 lumens	Max Intensity:	56662.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	120.4 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	28256.2 lumens	Field Lumens:	51575.3 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%

Input Watts (W): 488.3
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





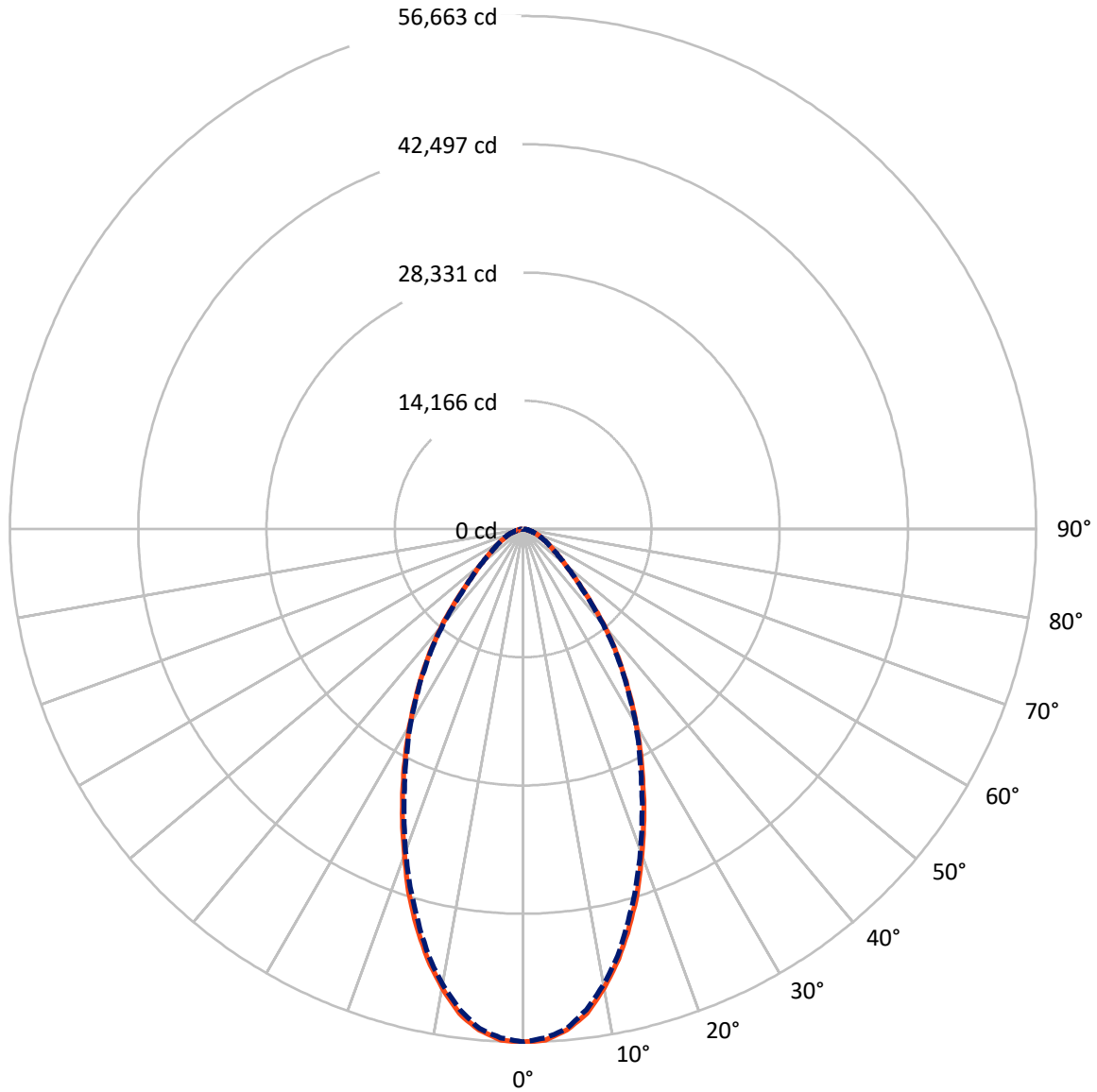
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Lumen Table

90																			
80	4.1	25.2		50.8		77.3		66.3		77.3		50.8		25.2		4.1			
70																			
60	10.4	11.0	19.6	29.8	41.7	53.3	62.1	66.6	66.6	62.1	53.3	41.7	29.8	19.6	11.0	10.4			
50		14.6	27.8	45.7	68.5	93.3	115.6	129.1	129.1	115.6	93.3	68.5	45.7	27.8	14.6				
40	13.9	18.3	37.3	67.3	111.6	171.2	235.7	279.6	279.6	235.7	171.2	111.6	67.3	37.3	18.3	13.9			
30		21.8	48.1	96.9	185.8	328.6	477.9	570.7	570.7	477.9	328.6	185.8	96.9	48.1	21.8				
20	16.0	25.0	59.2	134.2	297.3	536.6	770.8	925.0	925.0	770.8	536.6	297.3	134.2	59.2	25.0	16.0			
10		27.6	69.1	172.7	405.0	722.5	1070.0	1321.1	1321.1	1070.0	722.5	405.0	172.7	69.1	27.6				
0	16.8	29.0	75.0	198.1	467.5	838.0	1276.2	1604.0	1604.0	1276.2	838.0	467.5	198.1	75.0	29.0	16.8			
-10		29.0	75.0	198.1	467.5	838.0	1276.2	1604.0	1604.0	1276.2	838.0	467.5	198.1	75.0	29.0				
-20	16.0	27.6	69.1	172.7	405.0	722.5	1070.0	1321.1	1321.1	1070.0	722.5	405.0	172.7	69.1	27.6	16.0			
-30		25.0	59.2	134.2	297.3	536.6	770.8	925.0	925.0	770.8	536.6	297.3	134.2	59.2	25.0				
-40	13.9	21.8	48.1	96.9	185.8	328.6	477.9	570.7	570.7	477.9	328.6	185.8	96.9	48.1	21.8	13.9			
-50		18.3	37.3	67.3	111.6	171.2	235.7	279.6	279.6	235.7	171.2	111.6	67.3	37.3	18.3				
-60	10.4	14.6	27.8	45.7	68.5	93.3	115.6	129.1	129.1	115.6	93.3	68.5	45.7	27.8	14.6	10.4			
-70		11.0	19.6	29.8	41.7	53.3	62.1	66.6	66.6	62.1	53.3	41.7	29.8	19.6	11.0				
-80																			
-90	4.1	25.2		50.8		77.3		66.3		77.3		50.8		25.2		4.1			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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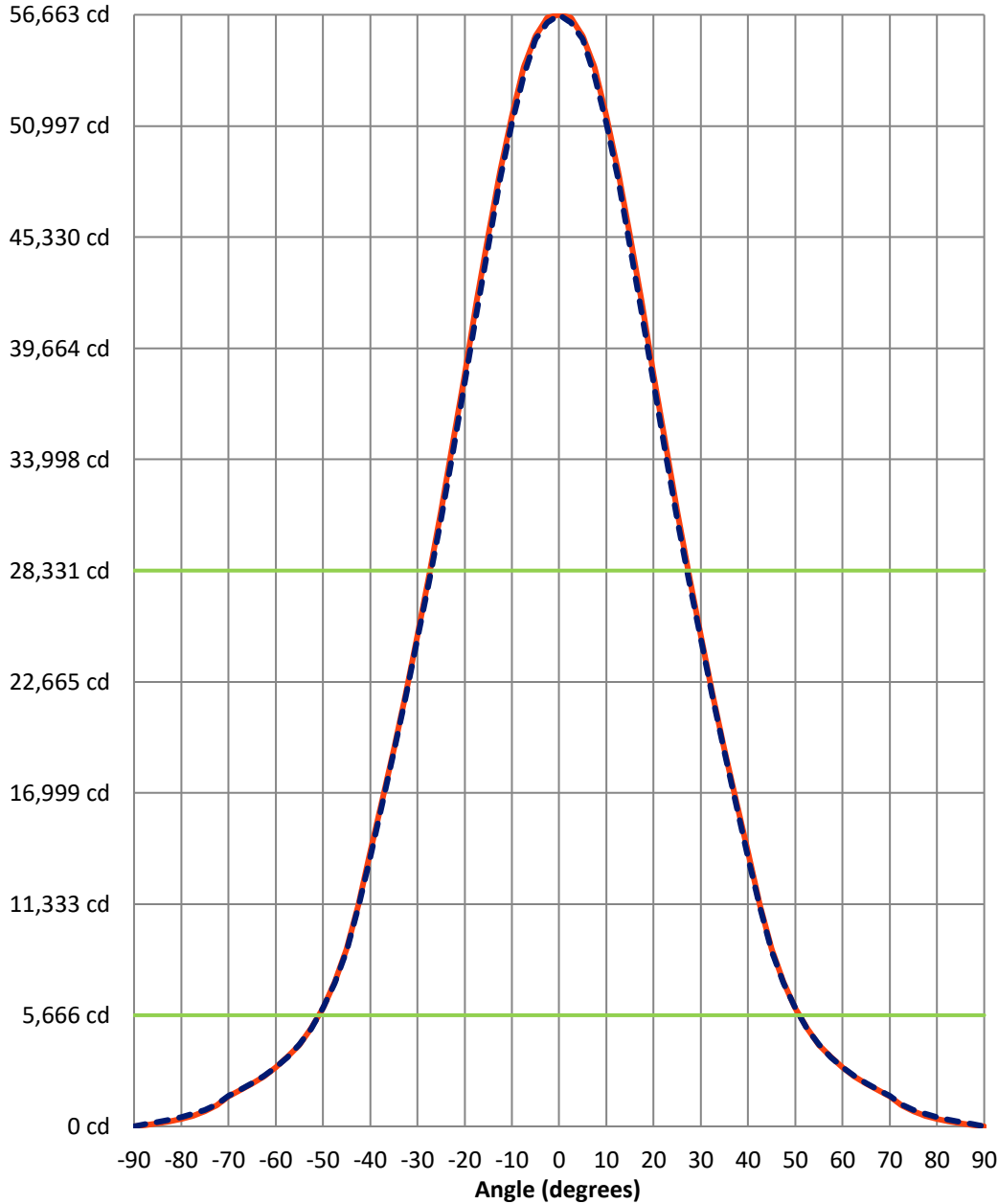
Luminous Intensity Polar Plot



— 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: 28256.2
 Efficiency: 48.1%

Field:
 H Angle: 101.7°
 V Angle: 101.8°
 Lumens: 51575.3
 Efficiency: 87.8%

Spill:
 Lumens: 7193.4
 Efficiency: 12.2%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	6	12	24	36	48	60	73	79	85	97
85°	0	12	24	42	66	97	127	145	157	175	187
82.5°	0	18	42	66	103	139	187	211	236	260	278
80°	0	24	54	91	133	187	248	278	308	338	362
77.5°	0	30	66	109	169	229	302	344	380	417	453
75°	0	36	79	133	199	266	350	405	453	501	556
72.5°	0	42	91	151	223	302	399	465	519	586	658
70°	0	48	103	175	248	338	447	519	586	664	725
67.5°	0	54	115	187	272	368	483	574	646	719	785
65°	0	54	127	199	290	399	513	622	700	773	851
62.5°	0	60	139	211	308	423	543	664	749	827	918
60°	0	66	145	223	332	447	580	706	791	888	984
57.5°	0	73	151	236	344	465	604	743	845	948	1051
55°	0	79	163	248	356	489	628	779	894	1002	1117
52.5°	0	79	169	254	374	507	652	803	942	1063	1195
50°	0	85	175	260	386	525	670	833	990	1123	1262
47.5°	0	91	181	266	392	537	694	863	1045	1183	1334
45°	0	91	187	272	405	556	712	882	1081	1244	1401
42.5°	0	97	187	278	411	568	731	912	1111	1304	1473
40°	0	103	193	290	423	574	749	936	1147	1365	1540
37.5°	0	103	199	296	429	586	761	960	1183	1407	1600
35°	0	109	205	302	435	592	767	984	1214	1449	1666
32.5°	0	109	205	314	441	604	779	1002	1250	1497	1727
30°	0	109	211	320	441	604	797	1020	1280	1546	1787
27.5°	0	115	211	320	453	610	809	1045	1310	1600	1848
25°	0	115	217	326	459	610	815	1063	1346	1648	1902
22.5°	0	115	217	332	465	616	821	1081	1383	1691	1962
20°	0	121	223	338	471	622	827	1099	1419	1727	2011
17.5°	0	121	223	338	477	634	833	1111	1449	1763	2053
15°	0	127	223	338	477	640	845	1117	1479	1793	2095
12.5°	0	127	223	344	477	640	851	1129	1509	1823	2125
10°	0	121	229	344	477	646	857	1135	1528	1842	2155
7.5°	0	121	229	344	483	646	857	1135	1546	1860	2174
5°	0	121	223	344	477	652	857	1141	1570	1878	2192
2.5°	0	121	223	338	477	652	845	1129	1564	1878	2204
0°	0	121	223	338	471	646	839	1117	1558	1872	2204
-2.5°	0	121	223	338	477	652	845	1129	1564	1878	2204
-5°	0	121	223	344	477	652	857	1141	1570	1878	2192
-7.5°	0	121	229	344	483	646	857	1135	1546	1860	2174
-10°	0	121	229	344	477	646	857	1135	1528	1842	2155
-12.5°	0	127	223	344	477	640	851	1129	1509	1823	2125
-15°	0	127	223	338	477	640	845	1117	1479	1793	2095
-17.5°	0	121	223	338	477	634	833	1111	1449	1763	2053
-20°	0	121	223	338	471	622	827	1099	1419	1727	2011



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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	115	217	332	465	616	821	1081	1383	1691	1962
-25°	0	115	217	326	459	610	815	1063	1346	1648	1902
-27.5°	0	115	211	320	453	610	809	1045	1310	1600	1848
-30°	0	109	211	320	441	604	797	1020	1280	1546	1787
-32.5°	0	109	205	314	441	604	779	1002	1250	1497	1727
-35°	0	109	205	302	435	592	767	984	1214	1449	1666
-37.5°	0	103	199	296	429	586	761	960	1183	1407	1600
-40°	0	103	193	290	423	574	749	936	1147	1365	1540
-42.5°	0	97	187	278	411	568	731	912	1111	1304	1473
-45°	0	91	187	272	405	556	712	882	1081	1244	1401
-47.5°	0	91	181	266	392	537	694	863	1045	1183	1334
-50°	0	85	175	260	386	525	670	833	990	1123	1262
-52.5°	0	79	169	254	374	507	652	803	942	1063	1195
-55°	0	79	163	248	356	489	628	779	894	1002	1117
-57.5°	0	73	151	236	344	465	604	743	845	948	1051
-60°	0	66	145	223	332	447	580	706	791	888	984
-62.5°	0	60	139	211	308	423	543	664	749	827	918
-65°	0	54	127	199	290	399	513	622	700	773	851
-67.5°	0	54	115	187	272	368	483	574	646	719	785
-70°	0	48	103	175	248	338	447	519	586	664	725
-72.5°	0	42	91	151	223	302	399	465	519	586	658
-75°	0	36	79	133	199	266	350	405	453	501	556
-77.5°	0	30	66	109	169	229	302	344	380	417	453
-80°	0	24	54	91	133	187	248	278	308	338	362
-82.5°	0	18	42	66	103	139	187	211	236	260	278
-85°	0	12	24	42	66	97	127	145	157	175	187
-87.5°	0	6	12	24	36	48	60	73	79	85	97
-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°	103	109	115	115	115	109	103	97	109	121	133
85°	199	217	223	236	229	217	211	199	223	248	278
82.5°	296	314	326	338	338	326	314	296	332	368	411
80°	386	411	435	453	453	435	417	392	435	489	543
77.5°	495	525	549	574	568	562	549	537	580	634	688
75°	604	646	664	688	700	694	694	706	755	821	882
72.5°	700	731	767	809	827	839	869	906	954	1008	1057
70°	779	815	863	906	942	978	1020	1069	1117	1171	1220
67.5°	851	906	954	1008	1057	1111	1165	1220	1274	1334	1395
65°	930	990	1051	1111	1177	1244	1310	1371	1437	1515	1582
62.5°	1008	1075	1147	1220	1298	1377	1455	1534	1624	1709	1793
60°	1081	1165	1250	1340	1431	1522	1606	1709	1817	1914	2023
57.5°	1153	1256	1352	1455	1558	1660	1781	1896	2023	2149	2270
55°	1232	1352	1461	1576	1691	1823	1956	2101	2240	2403	2554
52.5°	1316	1443	1570	1697	1842	1986	2143	2312	2494	2681	2868
50°	1401	1540	1679	1829	1992	2162	2349	2548	2765	2983	3212
47.5°	1479	1630	1799	1962	2149	2349	2566	2808	3049	3321	3611
45°	1564	1727	1908	2107	2312	2548	2808	3073	3381	3689	4027
42.5°	1648	1823	2029	2240	2494	2759	3043	3381	3725	4106	4516
40°	1721	1920	2149	2403	2675	2971	3321	3689	4112	4564	5072
37.5°	1805	2023	2270	2548	2862	3206	3611	4039	4528	5078	5687
35°	1884	2125	2397	2699	3049	3448	3900	4401	4969	5633	6376
32.5°	1962	2228	2518	2850	3236	3689	4202	4794	5464	6225	7155
30°	2041	2318	2632	2995	3429	3943	4534	5192	5965	6925	8030
27.5°	2113	2415	2753	3152	3617	4178	4848	5633	6545	7626	8918
25°	2186	2500	2868	3297	3816	4432	5162	6026	7118	8398	9932
22.5°	2252	2584	2971	3435	3997	4679	5500	6484	7686	9111	10916
20°	2318	2669	3079	3568	4154	4903	5808	6907	8272	9950	11954
17.5°	2373	2747	3182	3707	4347	5132	6092	7330	8803	10723	12957
15°	2427	2814	3272	3828	4516	5361	6400	7698	9364	11453	13826
12.5°	2469	2868	3351	3937	4661	5555	6666	8072	9908	12142	14581
10°	2500	2916	3411	4021	4782	5712	6883	8374	10348	12703	15209
7.5°	2530	2952	3460	4088	4872	5832	7052	8610	10687	13138	15692
5°	2554	2983	3496	4136	4933	5923	7179	8761	10928	13446	16036
2.5°	2572	3007	3526	4178	4981	6020	7293	8924	11158	13705	16344
0°	2572	3013	3526	4178	4975	6038	7312	8936	11188	13699	16386
-2.5°	2572	3007	3526	4178	4981	6020	7293	8924	11158	13705	16344
-5°	2554	2983	3496	4136	4933	5923	7179	8761	10928	13446	16036
-7.5°	2530	2952	3460	4088	4872	5832	7052	8610	10687	13138	15692
-10°	2500	2916	3411	4021	4782	5712	6883	8374	10348	12703	15209
-12.5°	2469	2868	3351	3937	4661	5555	6666	8072	9908	12142	14581
-15°	2427	2814	3272	3828	4516	5361	6400	7698	9364	11453	13826
-17.5°	2373	2747	3182	3707	4347	5132	6092	7330	8803	10723	12957
-20°	2318	2669	3079	3568	4154	4903	5808	6907	8272	9950	11954



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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°	2252	2584	2971	3435	3997	4679	5500	6484	7686	9111	10916
-25°	2186	2500	2868	3297	3816	4432	5162	6026	7118	8398	9932
-27.5°	2113	2415	2753	3152	3617	4178	4848	5633	6545	7626	8918
-30°	2041	2318	2632	2995	3429	3943	4534	5192	5965	6925	8030
-32.5°	1962	2228	2518	2850	3236	3689	4202	4794	5464	6225	7155
-35°	1884	2125	2397	2699	3049	3448	3900	4401	4969	5633	6376
-37.5°	1805	2023	2270	2548	2862	3206	3611	4039	4528	5078	5687
-40°	1721	1920	2149	2403	2675	2971	3321	3689	4112	4564	5072
-42.5°	1648	1823	2029	2240	2494	2759	3043	3381	3725	4106	4516
-45°	1564	1727	1908	2107	2312	2548	2808	3073	3381	3689	4027
-47.5°	1479	1630	1799	1962	2149	2349	2566	2808	3049	3321	3611
-50°	1401	1540	1679	1829	1992	2162	2349	2548	2765	2983	3212
-52.5°	1316	1443	1570	1697	1842	1986	2143	2312	2494	2681	2868
-55°	1232	1352	1461	1576	1691	1823	1956	2101	2240	2403	2554
-57.5°	1153	1256	1352	1455	1558	1660	1781	1896	2023	2149	2270
-60°	1081	1165	1250	1340	1431	1522	1606	1709	1817	1914	2023
-62.5°	1008	1075	1147	1220	1298	1377	1455	1534	1624	1709	1793
-65°	930	990	1051	1111	1177	1244	1310	1371	1437	1515	1582
-67.5°	851	906	954	1008	1057	1111	1165	1220	1274	1334	1395
-70°	779	815	863	906	942	978	1020	1069	1117	1171	1220
-72.5°	700	731	767	809	827	839	869	906	954	1008	1057
-75°	604	646	664	688	700	694	694	706	755	821	882
-77.5°	495	525	549	574	568	562	549	537	580	634	688
-80°	386	411	435	453	453	435	417	392	435	489	543
-82.5°	296	314	326	338	338	326	314	296	332	368	411
-85°	199	217	223	236	229	217	211	199	223	248	278
-87.5°	103	109	115	115	115	109	103	97	109	121	133
-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°	151	151	151	151	145	151	151	157	163	145	127
85°	302	308	308	308	308	308	308	308	308	278	248
82.5°	453	471	483	501	513	513	507	501	489	441	386
80°	598	628	646	664	682	676	670	658	652	592	531
77.5°	743	779	803	821	839	845	839	839	833	779	712
75°	930	960	984	1008	1032	1045	1051	1051	1051	1002	942
72.5°	1099	1135	1171	1208	1238	1256	1274	1286	1298	1274	1238
70°	1274	1316	1359	1401	1443	1473	1497	1522	1534	1540	1540
67.5°	1455	1509	1564	1618	1666	1709	1739	1769	1793	1817	1829
65°	1654	1727	1793	1854	1908	1962	2005	2047	2083	2113	2131
62.5°	1878	1962	2041	2119	2180	2246	2312	2373	2421	2463	2494
60°	2125	2228	2325	2421	2518	2596	2681	2753	2814	2868	2916
57.5°	2403	2530	2651	2777	2886	2989	3091	3194	3285	3357	3417
55°	2711	2868	3025	3176	3327	3466	3598	3731	3852	3949	4033
52.5°	3067	3254	3454	3641	3846	4027	4196	4377	4540	4685	4806
50°	3448	3689	3949	4190	4456	4709	4939	5168	5398	5597	5760
47.5°	3894	4184	4522	4854	5180	5524	5844	6146	6460	6726	6949
45°	4377	4782	5180	5627	6038	6503	6943	7384	7770	8157	8483
42.5°	4951	5458	5965	6539	7100	7686	8308	8863	9443	10010	10481
40°	5633	6231	6931	7620	8398	9135	10016	10795	11532	12250	12860
37.5°	6382	7173	8036	8912	9968	11007	12039	13017	13893	14696	15336
35°	7245	8241	9268	10542	11798	13065	14249	15360	16356	17171	17847
32.5°	8235	9413	10832	12311	13766	15173	16585	17684	18723	19652	20449
30°	9286	10819	12474	14128	15716	17243	18668	19991	21198	22243	23136
27.5°	10518	12293	14134	15909	17612	19260	20878	22387	23710	24809	25919
25°	11737	13772	15740	17618	19459	21301	23082	24778	26324	27670	28872
22.5°	13023	15148	17225	19218	21307	23311	25261	27193	28968	30520	31873
20°	14213	16495	18614	20836	23100	25273	27465	29554	31534	33406	34946
17.5°	15275	17600	19912	22255	24724	27187	29566	31830	34088	36268	38188
15°	16223	18662	21035	23589	26252	28902	31553	34046	36588	39003	41152
12.5°	17062	19580	22104	24821	27604	30363	33267	36165	38985	41587	43918
10°	17757	20371	23076	25889	28781	31697	34825	38043	41062	43827	46363
7.5°	18282	20969	23794	26716	29765	32887	36153	39432	42626	45596	48253
5°	18656	21367	24271	27254	30430	33690	37174	40669	43930	47003	49720
2.5°	18994	21723	24682	27550	30786	34167	37657	41279	44612	47770	50794
0°	19085	21868	24857	27803	30949	34342	37898	41436	44853	48283	51126
-2.5°	18994	21723	24682	27550	30786	34167	37657	41279	44612	47770	50794
-5°	18656	21367	24271	27254	30430	33690	37174	40669	43930	47003	49720
-7.5°	18282	20969	23794	26716	29765	32887	36153	39432	42626	45596	48253
-10°	17757	20371	23076	25889	28781	31697	34825	38043	41062	43827	46363
-12.5°	17062	19580	22104	24821	27604	30363	33267	36165	38985	41587	43918
-15°	16223	18662	21035	23589	26252	28902	31553	34046	36588	39003	41152
-17.5°	15275	17600	19912	22255	24724	27187	29566	31830	34088	36268	38188
-20°	14213	16495	18614	20836	23100	25273	27465	29554	31534	33406	34946



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 CATALOG NUMBER: EPH-VN-08-D-740-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13023	15148	17225	19218	21307	23311	25261	27193	28968	30520	31873
-25°	11737	13772	15740	17618	19459	21301	23082	24778	26324	27670	28872
-27.5°	10518	12293	14134	15909	17612	19260	20878	22387	23710	24809	25919
-30°	9286	10819	12474	14128	15716	17243	18668	19991	21198	22243	23136
-32.5°	8235	9413	10832	12311	13766	15173	16585	17684	18723	19652	20449
-35°	7245	8241	9268	10542	11798	13065	14249	15360	16356	17171	17847
-37.5°	6382	7173	8036	8912	9968	11007	12039	13017	13893	14696	15336
-40°	5633	6231	6931	7620	8398	9135	10016	10795	11532	12250	12860
-42.5°	4951	5458	5965	6539	7100	7686	8308	8863	9443	10010	10481
-45°	4377	4782	5180	5627	6038	6503	6943	7384	7770	8157	8483
-47.5°	3894	4184	4522	4854	5180	5524	5844	6146	6460	6726	6949
-50°	3448	3689	3949	4190	4456	4709	4939	5168	5398	5597	5760
-52.5°	3067	3254	3454	3641	3846	4027	4196	4377	4540	4685	4806
-55°	2711	2868	3025	3176	3327	3466	3598	3731	3852	3949	4033
-57.5°	2403	2530	2651	2777	2886	2989	3091	3194	3285	3357	3417
-60°	2125	2228	2325	2421	2518	2596	2681	2753	2814	2868	2916
-62.5°	1878	1962	2041	2119	2180	2246	2312	2373	2421	2463	2494
-65°	1654	1727	1793	1854	1908	1962	2005	2047	2083	2113	2131
-67.5°	1455	1509	1564	1618	1666	1709	1739	1769	1793	1817	1829
-70°	1274	1316	1359	1401	1443	1473	1497	1522	1534	1540	1540
-72.5°	1099	1135	1171	1208	1238	1256	1274	1286	1298	1274	1238
-75°	930	960	984	1008	1032	1045	1051	1051	1051	1002	942
-77.5°	743	779	803	821	839	845	839	839	833	779	712
-80°	598	628	646	664	682	676	670	658	652	592	531
-82.5°	453	471	483	501	513	513	507	501	489	441	386
-85°	302	308	308	308	308	308	308	308	308	278	248
-87.5°	151	151	151	151	145	151	151	157	163	145	127
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: EPH-VN-08-D-740-U-66

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	103	85	79	66	79	85	103	127	145	163	157
85°	211	175	169	157	169	175	211	248	278	308	308
82.5°	338	278	266	254	266	278	338	386	441	489	501
80°	477	405	392	380	392	405	477	531	592	652	658
77.5°	646	580	556	537	556	580	646	712	779	833	839
75°	876	809	791	773	791	809	876	942	1002	1051	1051
72.5°	1195	1165	1117	1075	1117	1165	1195	1238	1274	1298	1286
70°	1546	1558	1546	1528	1546	1558	1546	1540	1540	1534	1522
67.5°	1835	1848	1848	1854	1848	1848	1835	1829	1817	1793	1769
65°	2149	2155	2174	2180	2174	2155	2149	2131	2113	2083	2047
62.5°	2512	2530	2542	2542	2542	2530	2512	2494	2463	2421	2373
60°	2946	2971	3001	3007	3001	2971	2946	2916	2868	2814	2753
57.5°	3466	3496	3538	3550	3538	3496	3466	3417	3357	3285	3194
55°	4094	4136	4160	4148	4160	4136	4094	4033	3949	3852	3731
52.5°	4909	4981	5029	5005	5029	4981	4909	4806	4685	4540	4377
50°	5893	5983	6044	6026	6044	5983	5893	5760	5597	5398	5168
47.5°	7124	7251	7354	7360	7354	7251	7124	6949	6726	6460	6146
45°	8742	8930	9069	9044	9069	8930	8742	8483	8157	7770	7384
42.5°	10844	11103	11308	11290	11308	11103	10844	10481	10010	9443	8863
40°	13313	13633	13905	13977	13905	13633	13313	12860	12250	11532	10795
37.5°	15855	16265	16609	16573	16609	16265	15855	15336	14696	13893	13017
35°	18409	18837	19175	19206	19175	18837	18409	17847	17171	16356	15360
32.5°	21083	21560	21959	22013	21959	21560	21083	20449	19652	18723	17684
30°	23873	24446	24923	25020	24923	24446	23873	23136	22243	21198	19991
27.5°	26807	27489	27942	28117	27942	27489	26807	25919	24809	23710	22387
25°	29832	30574	31082	31365	31082	30574	29832	28872	27670	26324	24778
22.5°	32989	33871	34529	34843	34529	33871	32989	31873	30520	28968	27193
20°	36250	37210	37977	38303	37977	37210	36250	34946	33406	31534	29554
17.5°	39570	40742	41593	42010	41593	40742	39570	38188	36268	34088	31830
15°	42795	44038	44962	45409	44962	44038	42795	41152	39003	36588	34046
12.5°	45783	47099	48023	48669	48023	47099	45783	43918	41587	38985	36165
10°	48452	49889	50825	51495	50825	49889	48452	46363	43827	41062	38043
7.5°	50450	52268	53324	53982	53324	52268	50450	48253	45596	42626	39432
5°	51984	53988	54948	55570	54948	53988	51984	49720	47003	43930	40669
2.5°	53107	54689	55890	56512	55890	54689	53107	50794	47770	44612	41279
0°	53548	55407	56258	56663	56258	55407	53548	51126	48283	44853	41436
-2.5°	53107	54689	55890	56512	55890	54689	53107	50794	47770	44612	41279
-5°	51984	53988	54948	55570	54948	53988	51984	49720	47003	43930	40669
-7.5°	50450	52268	53324	53982	53324	52268	50450	48253	45596	42626	39432
-10°	48452	49889	50825	51495	50825	49889	48452	46363	43827	41062	38043
-12.5°	45783	47099	48023	48669	48023	47099	45783	43918	41587	38985	36165
-15°	42795	44038	44962	45409	44962	44038	42795	41152	39003	36588	34046
-17.5°	39570	40742	41593	42010	41593	40742	39570	38188	36268	34088	31830
-20°	36250	37210	37977	38303	37977	37210	36250	34946	33406	31534	29554



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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°	32989	33871	34529	34843	34529	33871	32989	31873	30520	28968	27193
-25°	29832	30574	31082	31365	31082	30574	29832	28872	27670	26324	24778
-27.5°	26807	27489	27942	28117	27942	27489	26807	25919	24809	23710	22387
-30°	23873	24446	24923	25020	24923	24446	23873	23136	22243	21198	19991
-32.5°	21083	21560	21959	22013	21959	21560	21083	20449	19652	18723	17684
-35°	18409	18837	19175	19206	19175	18837	18409	17847	17171	16356	15360
-37.5°	15855	16265	16609	16573	16609	16265	15855	15336	14696	13893	13017
-40°	13313	13633	13905	13977	13905	13633	13313	12860	12250	11532	10795
-42.5°	10844	11103	11308	11290	11308	11103	10844	10481	10010	9443	8863
-45°	8742	8930	9069	9044	9069	8930	8742	8483	8157	7770	7384
-47.5°	7124	7251	7354	7360	7354	7251	7124	6949	6726	6460	6146
-50°	5893	5983	6044	6026	6044	5983	5893	5760	5597	5398	5168
-52.5°	4909	4981	5029	5005	5029	4981	4909	4806	4685	4540	4377
-55°	4094	4136	4160	4148	4160	4136	4094	4033	3949	3852	3731
-57.5°	3466	3496	3538	3550	3538	3496	3466	3417	3357	3285	3194
-60°	2946	2971	3001	3007	3001	2971	2946	2916	2868	2814	2753
-62.5°	2512	2530	2542	2542	2542	2530	2512	2494	2463	2421	2373
-65°	2149	2155	2174	2180	2174	2155	2149	2131	2113	2083	2047
-67.5°	1835	1848	1848	1854	1848	1848	1835	1829	1817	1793	1769
-70°	1546	1558	1546	1528	1546	1558	1546	1540	1540	1534	1522
-72.5°	1195	1165	1117	1075	1117	1165	1195	1238	1274	1298	1286
-75°	876	809	791	773	791	809	876	942	1002	1051	1051
-77.5°	646	580	556	537	556	580	646	712	779	833	839
-80°	477	405	392	380	392	405	477	531	592	652	658
-82.5°	338	278	266	254	266	278	338	386	441	489	501
-85°	211	175	169	157	169	175	211	248	278	308	308
-87.5°	103	85	79	66	79	85	103	127	145	163	157
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P621388
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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°	151	151	145	151	151	151	151	133	121	109	97
85°	308	308	308	308	308	308	302	278	248	223	199
82.5°	507	513	513	501	483	471	453	411	368	332	296
80°	670	676	682	664	646	628	598	543	489	435	392
77.5°	839	845	839	821	803	779	743	688	634	580	537
75°	1051	1045	1032	1008	984	960	930	882	821	755	706
72.5°	1274	1256	1238	1208	1171	1135	1099	1057	1008	954	906
70°	1497	1473	1443	1401	1359	1316	1274	1220	1171	1117	1069
67.5°	1739	1709	1666	1618	1564	1509	1455	1395	1334	1274	1220
65°	2005	1962	1908	1854	1793	1727	1654	1582	1515	1437	1371
62.5°	2312	2246	2180	2119	2041	1962	1878	1793	1709	1624	1534
60°	2681	2596	2518	2421	2325	2228	2125	2023	1914	1817	1709
57.5°	3091	2989	2886	2777	2651	2530	2403	2270	2149	2023	1896
55°	3598	3466	3327	3176	3025	2868	2711	2554	2403	2240	2101
52.5°	4196	4027	3846	3641	3454	3254	3067	2868	2681	2494	2312
50°	4939	4709	4456	4190	3949	3689	3448	3212	2983	2765	2548
47.5°	5844	5524	5180	4854	4522	4184	3894	3611	3321	3049	2808
45°	6943	6503	6038	5627	5180	4782	4377	4027	3689	3381	3073
42.5°	8308	7686	7100	6539	5965	5458	4951	4516	4106	3725	3381
40°	10016	9135	8398	7620	6931	6231	5633	5072	4564	4112	3689
37.5°	12039	11007	9968	8912	8036	7173	6382	5687	5078	4528	4039
35°	14249	13065	11798	10542	9268	8241	7245	6376	5633	4969	4401
32.5°	16585	15173	13766	12311	10832	9413	8235	7155	6225	5464	4794
30°	18668	17243	15716	14128	12474	10819	9286	8030	6925	5965	5192
27.5°	20878	19260	17612	15909	14134	12293	10518	8918	7626	6545	5633
25°	23082	21301	19459	17618	15740	13772	11737	9932	8398	7118	6026
22.5°	25261	23311	21307	19218	17225	15148	13023	10916	9111	7686	6484
20°	27465	25273	23100	20836	18614	16495	14213	11954	9950	8272	6907
17.5°	29566	27187	24724	22255	19912	17600	15275	12957	10723	8803	7330
15°	31553	28902	26252	23589	21035	18662	16223	13826	11453	9364	7698
12.5°	33267	30363	27604	24821	22104	19580	17062	14581	12142	9908	8072
10°	34825	31697	28781	25889	23076	20371	17757	15209	12703	10348	8374
7.5°	36153	32887	29765	26716	23794	20969	18282	15692	13138	10687	8610
5°	37174	33690	30430	27254	24271	21367	18656	16036	13446	10928	8761
2.5°	37657	34167	30786	27550	24682	21723	18994	16344	13705	11158	8924
0°	37898	34342	30949	27803	24857	21868	19085	16386	13699	11188	8936
-2.5°	37657	34167	30786	27550	24682	21723	18994	16344	13705	11158	8924
-5°	37174	33690	30430	27254	24271	21367	18656	16036	13446	10928	8761
-7.5°	36153	32887	29765	26716	23794	20969	18282	15692	13138	10687	8610
-10°	34825	31697	28781	25889	23076	20371	17757	15209	12703	10348	8374
-12.5°	33267	30363	27604	24821	22104	19580	17062	14581	12142	9908	8072
-15°	31553	28902	26252	23589	21035	18662	16223	13826	11453	9364	7698
-17.5°	29566	27187	24724	22255	19912	17600	15275	12957	10723	8803	7330
-20°	27465	25273	23100	20836	18614	16495	14213	11954	9950	8272	6907



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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°	25261	23311	21307	19218	17225	15148	13023	10916	9111	7686	6484
-25°	23082	21301	19459	17618	15740	13772	11737	9932	8398	7118	6026
-27.5°	20878	19260	17612	15909	14134	12293	10518	8918	7626	6545	5633
-30°	18668	17243	15716	14128	12474	10819	9286	8030	6925	5965	5192
-32.5°	16585	15173	13766	12311	10832	9413	8235	7155	6225	5464	4794
-35°	14249	13065	11798	10542	9268	8241	7245	6376	5633	4969	4401
-37.5°	12039	11007	9968	8912	8036	7173	6382	5687	5078	4528	4039
-40°	10016	9135	8398	7620	6931	6231	5633	5072	4564	4112	3689
-42.5°	8308	7686	7100	6539	5965	5458	4951	4516	4106	3725	3381
-45°	6943	6503	6038	5627	5180	4782	4377	4027	3689	3381	3073
-47.5°	5844	5524	5180	4854	4522	4184	3894	3611	3321	3049	2808
-50°	4939	4709	4456	4190	3949	3689	3448	3212	2983	2765	2548
-52.5°	4196	4027	3846	3641	3454	3254	3067	2868	2681	2494	2312
-55°	3598	3466	3327	3176	3025	2868	2711	2554	2403	2240	2101
-57.5°	3091	2989	2886	2777	2651	2530	2403	2270	2149	2023	1896
-60°	2681	2596	2518	2421	2325	2228	2125	2023	1914	1817	1709
-62.5°	2312	2246	2180	2119	2041	1962	1878	1793	1709	1624	1534
-65°	2005	1962	1908	1854	1793	1727	1654	1582	1515	1437	1371
-67.5°	1739	1709	1666	1618	1564	1509	1455	1395	1334	1274	1220
-70°	1497	1473	1443	1401	1359	1316	1274	1220	1171	1117	1069
-72.5°	1274	1256	1238	1208	1171	1135	1099	1057	1008	954	906
-75°	1051	1045	1032	1008	984	960	930	882	821	755	706
-77.5°	839	845	839	821	803	779	743	688	634	580	537
-80°	670	676	682	664	646	628	598	543	489	435	392
-82.5°	507	513	513	501	483	471	453	411	368	332	296
-85°	308	308	308	308	308	308	302	278	248	223	199
-87.5°	151	151	145	151	151	151	151	133	121	109	97
-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°	103	109	115	115	115	109	103	97	85	79	73
85°	211	217	229	236	223	217	199	187	175	157	145
82.5°	314	326	338	338	326	314	296	278	260	236	211
80°	417	435	453	453	435	411	386	362	338	308	278
77.5°	549	562	568	574	549	525	495	453	417	380	344
75°	694	694	700	688	664	646	604	556	501	453	405
72.5°	869	839	827	809	767	731	700	658	586	519	465
70°	1020	978	942	906	863	815	779	725	664	586	519
67.5°	1165	1111	1057	1008	954	906	851	785	719	646	574
65°	1310	1244	1177	1111	1051	990	930	851	773	700	622
62.5°	1455	1377	1298	1220	1147	1075	1008	918	827	749	664
60°	1606	1522	1431	1340	1250	1165	1081	984	888	791	706
57.5°	1781	1660	1558	1455	1352	1256	1153	1051	948	845	743
55°	1956	1823	1691	1576	1461	1352	1232	1117	1002	894	779
52.5°	2143	1986	1842	1697	1570	1443	1316	1195	1063	942	803
50°	2349	2162	1992	1829	1679	1540	1401	1262	1123	990	833
47.5°	2566	2349	2149	1962	1799	1630	1479	1334	1183	1045	863
45°	2808	2548	2312	2107	1908	1727	1564	1401	1244	1081	882
42.5°	3043	2759	2494	2240	2029	1823	1648	1473	1304	1111	912
40°	3321	2971	2675	2403	2149	1920	1721	1540	1365	1147	936
37.5°	3611	3206	2862	2548	2270	2023	1805	1600	1407	1183	960
35°	3900	3448	3049	2699	2397	2125	1884	1666	1449	1214	984
32.5°	4202	3689	3236	2850	2518	2228	1962	1727	1497	1250	1002
30°	4534	3943	3429	2995	2632	2318	2041	1787	1546	1280	1020
27.5°	4848	4178	3617	3152	2753	2415	2113	1848	1600	1310	1045
25°	5162	4432	3816	3297	2868	2500	2186	1902	1648	1346	1063
22.5°	5500	4679	3997	3435	2971	2584	2252	1962	1691	1383	1081
20°	5808	4903	4154	3568	3079	2669	2318	2011	1727	1419	1099
17.5°	6092	5132	4347	3707	3182	2747	2373	2053	1763	1449	1111
15°	6400	5361	4516	3828	3272	2814	2427	2095	1793	1479	1117
12.5°	6666	5555	4661	3937	3351	2868	2469	2125	1823	1509	1129
10°	6883	5712	4782	4021	3411	2916	2500	2155	1842	1528	1135
7.5°	7052	5832	4872	4088	3460	2952	2530	2174	1860	1546	1135
5°	7179	5923	4933	4136	3496	2983	2554	2192	1878	1570	1141
2.5°	7293	6020	4981	4178	3526	3007	2572	2204	1878	1564	1129
0°	7312	6038	4975	4178	3526	3013	2572	2204	1872	1558	1117
-2.5°	7293	6020	4981	4178	3526	3007	2572	2204	1878	1564	1129
-5°	7179	5923	4933	4136	3496	2983	2554	2192	1878	1570	1141
-7.5°	7052	5832	4872	4088	3460	2952	2530	2174	1860	1546	1135
-10°	6883	5712	4782	4021	3411	2916	2500	2155	1842	1528	1135
-12.5°	6666	5555	4661	3937	3351	2868	2469	2125	1823	1509	1129
-15°	6400	5361	4516	3828	3272	2814	2427	2095	1793	1479	1117
-17.5°	6092	5132	4347	3707	3182	2747	2373	2053	1763	1449	1111
-20°	5808	4903	4154	3568	3079	2669	2318	2011	1727	1419	1099



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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°	5500	4679	3997	3435	2971	2584	2252	1962	1691	1383	1081
-25°	5162	4432	3816	3297	2868	2500	2186	1902	1648	1346	1063
-27.5°	4848	4178	3617	3152	2753	2415	2113	1848	1600	1310	1045
-30°	4534	3943	3429	2995	2632	2318	2041	1787	1546	1280	1020
-32.5°	4202	3689	3236	2850	2518	2228	1962	1727	1497	1250	1002
-35°	3900	3448	3049	2699	2397	2125	1884	1666	1449	1214	984
-37.5°	3611	3206	2862	2548	2270	2023	1805	1600	1407	1183	960
-40°	3321	2971	2675	2403	2149	1920	1721	1540	1365	1147	936
-42.5°	3043	2759	2494	2240	2029	1823	1648	1473	1304	1111	912
-45°	2808	2548	2312	2107	1908	1727	1564	1401	1244	1081	882
-47.5°	2566	2349	2149	1962	1799	1630	1479	1334	1183	1045	863
-50°	2349	2162	1992	1829	1679	1540	1401	1262	1123	990	833
-52.5°	2143	1986	1842	1697	1570	1443	1316	1195	1063	942	803
-55°	1956	1823	1691	1576	1461	1352	1232	1117	1002	894	779
-57.5°	1781	1660	1558	1455	1352	1256	1153	1051	948	845	743
-60°	1606	1522	1431	1340	1250	1165	1081	984	888	791	706
-62.5°	1455	1377	1298	1220	1147	1075	1008	918	827	749	664
-65°	1310	1244	1177	1111	1051	990	930	851	773	700	622
-67.5°	1165	1111	1057	1008	954	906	851	785	719	646	574
-70°	1020	978	942	906	863	815	779	725	664	586	519
-72.5°	869	839	827	809	767	731	700	658	586	519	465
-75°	694	694	700	688	664	646	604	556	501	453	405
-77.5°	549	562	568	574	549	525	495	453	417	380	344
-80°	417	435	453	453	435	411	386	362	338	308	278
-82.5°	314	326	338	338	326	314	296	278	260	236	211
-85°	211	217	229	236	223	217	199	187	175	157	145
-87.5°	103	109	115	115	115	109	103	97	85	79	73
-90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	60	48	36	24	12	6	0
85°	127	97	66	42	24	12	0
82.5°	187	139	103	66	42	18	0
80°	248	187	133	91	54	24	0
77.5°	302	229	169	109	66	30	0
75°	350	266	199	133	79	36	0
72.5°	399	302	223	151	91	42	0
70°	447	338	248	175	103	48	0
67.5°	483	368	272	187	115	54	0
65°	513	399	290	199	127	54	0
62.5°	543	423	308	211	139	60	0
60°	580	447	332	223	145	66	0
57.5°	604	465	344	236	151	73	0
55°	628	489	356	248	163	79	0
52.5°	652	507	374	254	169	79	0
50°	670	525	386	260	175	85	0
47.5°	694	537	392	266	181	91	0
45°	712	556	405	272	187	91	0
42.5°	731	568	411	278	187	97	0
40°	749	574	423	290	193	103	0
37.5°	761	586	429	296	199	103	0
35°	767	592	435	302	205	109	0
32.5°	779	604	441	314	205	109	0
30°	797	604	441	320	211	109	0
27.5°	809	610	453	320	211	115	0
25°	815	610	459	326	217	115	0
22.5°	821	616	465	332	217	115	0
20°	827	622	471	338	223	121	0
17.5°	833	634	477	338	223	121	0
15°	845	640	477	338	223	127	0
12.5°	851	640	477	344	223	127	0
10°	857	646	477	344	229	121	0
7.5°	857	646	483	344	229	121	0
5°	857	652	477	344	223	121	0
2.5°	845	652	477	338	223	121	0
0°	839	646	471	338	223	121	0
-2.5°	845	652	477	338	223	121	0
-5°	857	652	477	344	223	121	0
-7.5°	857	646	483	344	229	121	0
-10°	857	646	477	344	229	121	0
-12.5°	851	640	477	344	223	127	0
-15°	845	640	477	338	223	127	0
-17.5°	833	634	477	338	223	121	0
-20°	827	622	471	338	223	121	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	821	616	465	332	217	115	0
-25°	815	610	459	326	217	115	0
-27.5°	809	610	453	320	211	115	0
-30°	797	604	441	320	211	109	0
-32.5°	779	604	441	314	205	109	0
-35°	767	592	435	302	205	109	0
-37.5°	761	586	429	296	199	103	0
-40°	749	574	423	290	193	103	0
-42.5°	731	568	411	278	187	97	0
-45°	712	556	405	272	187	91	0
-47.5°	694	537	392	266	181	91	0
-50°	670	525	386	260	175	85	0
-52.5°	652	507	374	254	169	79	0
-55°	628	489	356	248	163	79	0
-57.5°	604	465	344	236	151	73	0
-60°	580	447	332	223	145	66	0
-62.5°	543	423	308	211	139	60	0
-65°	513	399	290	199	127	54	0
-67.5°	483	368	272	187	115	54	0
-70°	447	338	248	175	103	48	0
-72.5°	399	302	223	151	91	42	0
-75°	350	266	199	133	79	36	0
-77.5°	302	229	169	109	66	30	0
-80°	248	187	133	91	54	24	0
-82.5°	187	139	103	66	42	18	0
-85°	127	97	66	42	24	12	0
-87.5°	60	48	36	24	12	6	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)