

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: P622352

Luminaire Tested: **EPH-VN-08-E-930-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P622352
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-930-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

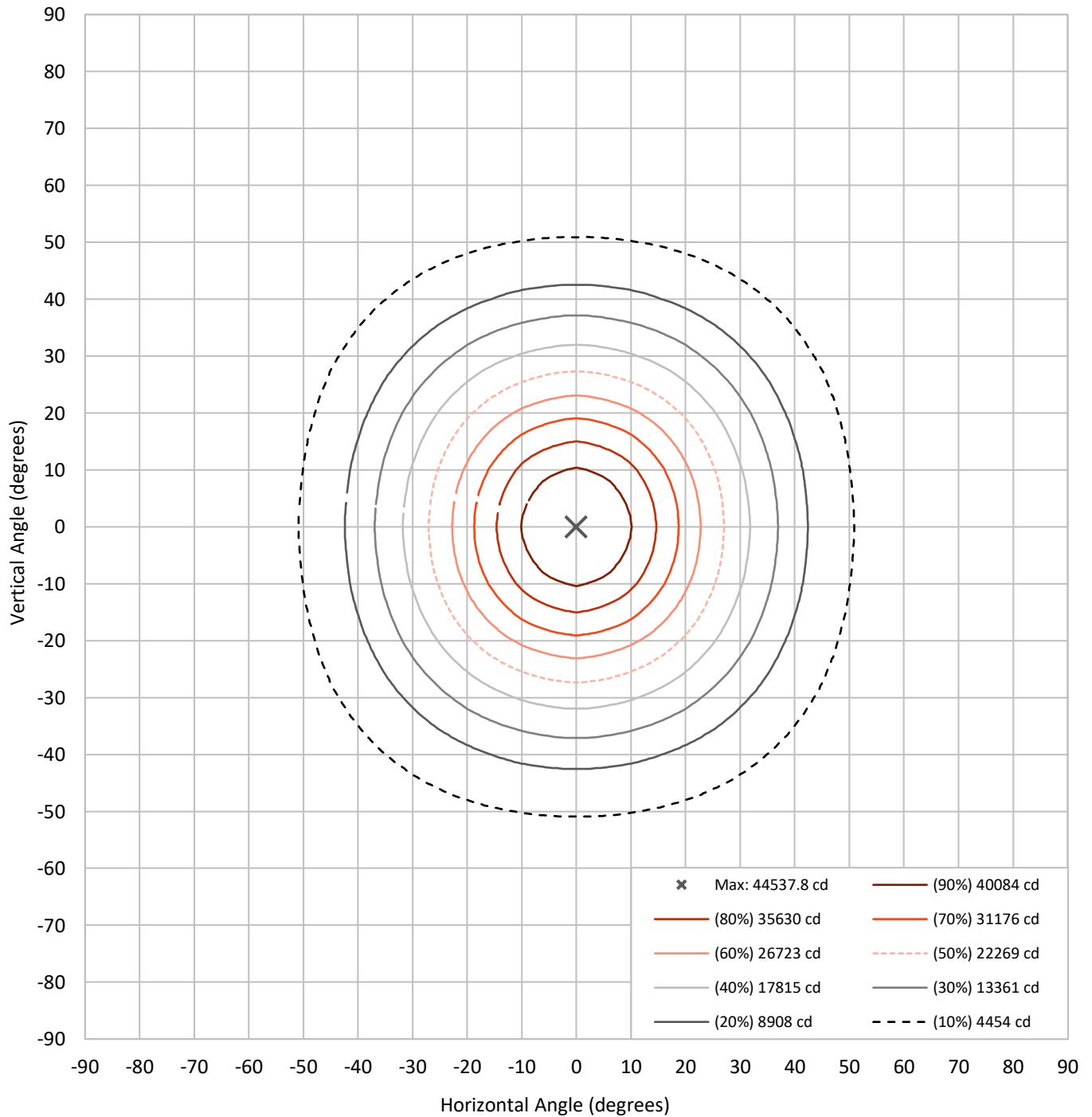
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	46193.1 lumens	Max Intensity:	44537.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	73.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	22209.8 lumens	Field Lumens:	40539 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%

Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot





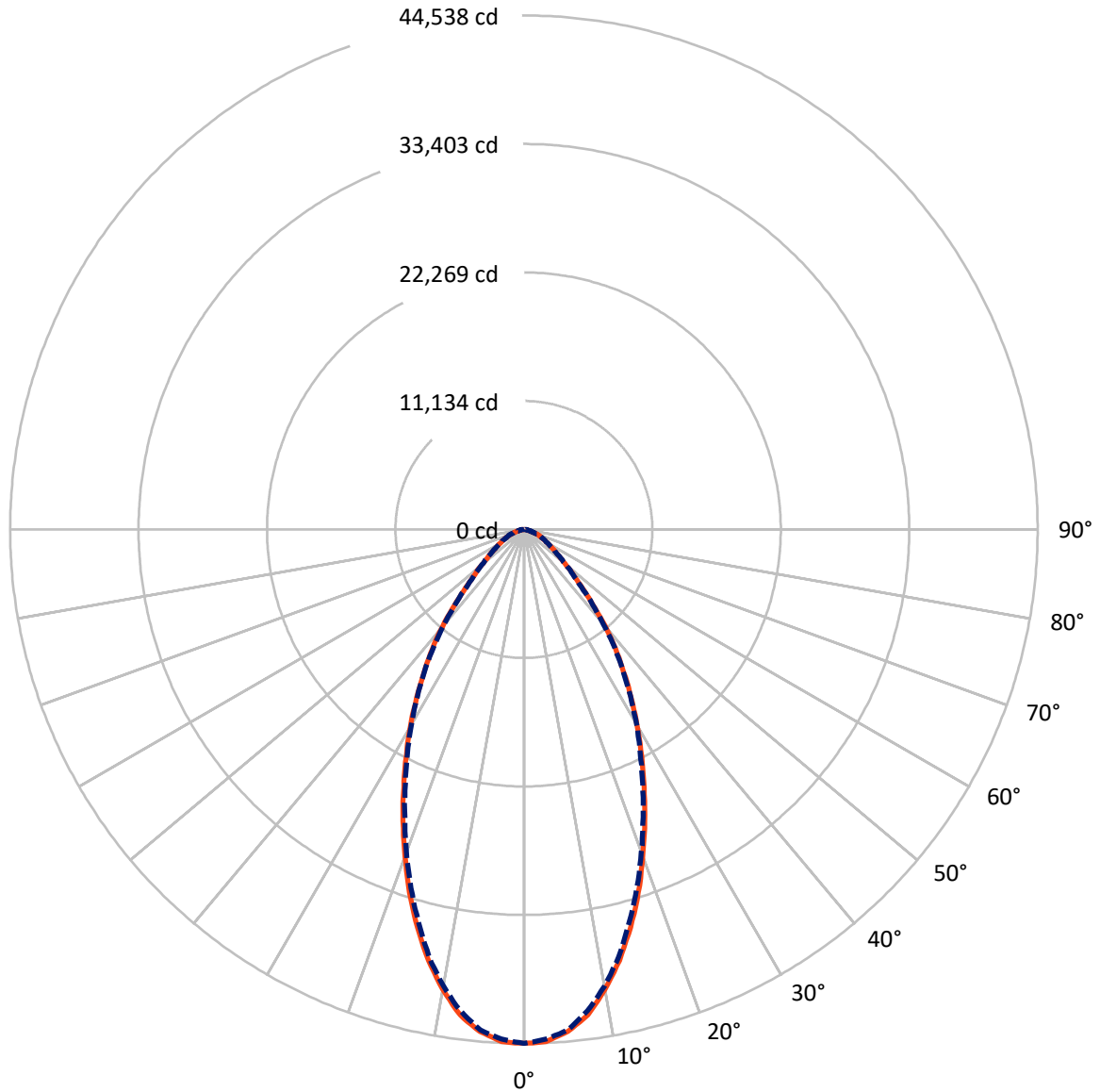
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Lumen Table

90	3.2	19.8	39.9	60.7	52.1	60.7	39.9	19.8	3.2							
80	3.2	19.8	39.9	60.7	52.1	60.7	39.9	19.8	3.2							
70	8.1	8.7	15.4	23.4	32.8	41.9	48.8	52.3	52.3	48.8	41.9	32.8	23.4	15.4	8.7	8.1
60		11.5	21.8	35.9	53.8	73.3	90.9	101.4	101.4	90.9	73.3	53.8	35.9	21.8	11.5	
50	10.9	14.4	29.3	52.9	87.8	134.6	185.3	219.7	219.7	185.3	134.6	87.8	52.9	29.3	14.4	10.9
40		17.1	37.8	76.1	146.0	258.3	375.6	448.6	448.6	375.6	258.3	146.0	76.1	37.8	17.1	
30	12.6	19.7	46.5	105.5	233.7	421.8	605.8	727.1	727.1	605.8	421.8	233.7	105.5	46.5	19.7	12.6
20		21.7	54.3	135.7	318.3	567.9	841.0	1038.4	1038.4	841.0	567.9	318.3	135.7	54.3	21.7	
10	13.2	22.8	59.0	155.7	367.5	658.7	1003.1	1260.7	1260.7	1003.1	658.7	367.5	155.7	59.0	22.8	13.2
0		22.8	59.0	155.7	367.5	658.7	1003.1	1260.7	1260.7	1003.1	658.7	367.5	155.7	59.0	22.8	
-10	12.6	21.7	54.3	135.7	318.3	567.9	841.0	1038.4	1038.4	841.0	567.9	318.3	135.7	54.3	21.7	12.6
-20		19.7	46.5	105.5	233.7	421.8	605.8	727.1	727.1	605.8	421.8	233.7	105.5	46.5	19.7	
-30	10.9	17.1	37.8	76.1	146.0	258.3	375.6	448.6	448.6	375.6	258.3	146.0	76.1	37.8	17.1	10.9
-40		14.4	29.3	52.9	87.8	134.6	185.3	219.7	219.7	185.3	134.6	87.8	52.9	29.3	14.4	
-50	8.1	11.5	21.8	35.9	53.8	73.3	90.9	101.4	101.4	90.9	73.3	53.8	35.9	21.8	11.5	8.1
-60		8.7	15.4	23.4	32.8	41.9	48.8	52.3	52.3	48.8	41.9	32.8	23.4	15.4	8.7	
-70	3.2	19.8	39.9	60.7	52.1	60.7	39.9	19.8	3.2							
-80		3.2	19.8	39.9	60.7	52.1	60.7	39.9	19.8	3.2						
-90	3.2	19.8	39.9	60.7	52.1	60.7	39.9	19.8	3.2							

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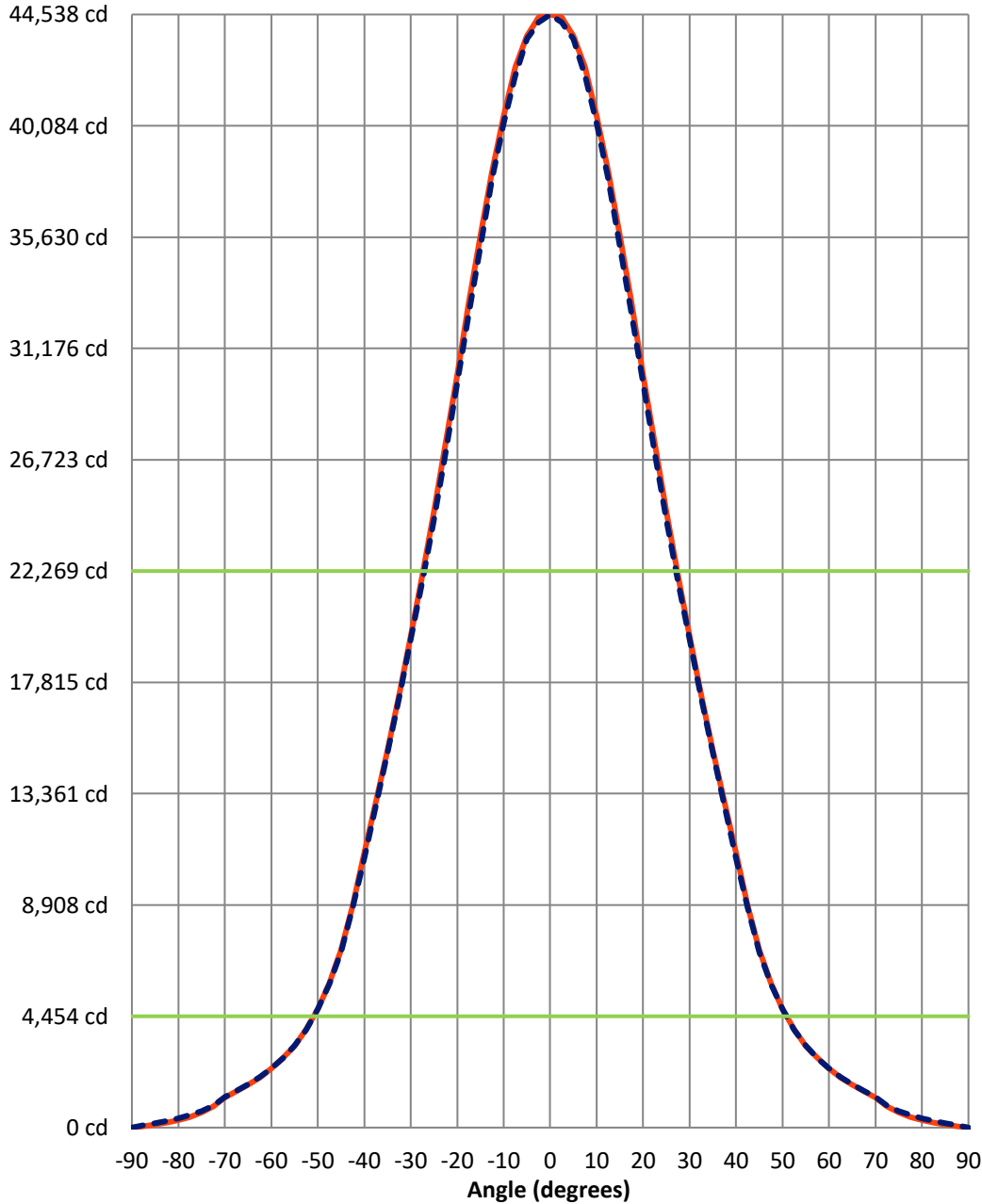
Luminous Intensity Polar Plot



— 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: 22209.8
Efficiency: 48.1%

Field:
H Angle: 101.7°
V Angle: 101.8°
Lumens: 40539
Efficiency: 87.8%

Spill:
Lumens: 5654.1
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	5	10	19	29	38	48	57	62	66	76
85°	0	10	19	33	52	76	100	114	123	138	147
82.5°	0	14	33	52	81	109	147	166	185	204	218
80°	0	19	43	71	104	147	195	218	242	266	285
77.5°	0	24	52	85	133	180	237	271	299	327	356
75°	0	29	62	104	157	209	275	318	356	394	437
72.5°	0	33	71	119	176	237	313	365	408	460	517
70°	0	38	81	138	195	266	351	408	460	522	570
67.5°	0	43	90	147	214	290	380	451	508	565	617
65°	0	43	100	157	228	313	403	489	551	607	669
62.5°	0	48	109	166	242	332	427	522	589	650	721
60°	0	52	114	176	261	351	456	555	622	698	774
57.5°	0	57	119	185	271	365	475	584	664	745	826
55°	0	62	128	195	280	384	494	612	702	788	878
52.5°	0	62	133	199	294	399	513	631	740	835	940
50°	0	66	138	204	304	413	527	655	778	883	992
47.5°	0	71	142	209	309	422	546	679	821	930	1049
45°	0	71	147	214	318	437	560	693	850	978	1101
42.5°	0	76	147	218	323	446	574	717	873	1025	1158
40°	0	81	152	228	332	451	589	736	902	1073	1210
37.5°	0	81	157	233	337	460	598	755	930	1106	1258
35°	0	85	161	237	342	465	603	774	954	1139	1310
32.5°	0	85	161	247	346	475	612	788	982	1177	1357
30°	0	85	166	252	346	475	626	802	1006	1215	1405
27.5°	0	90	166	252	356	479	636	821	1030	1258	1452
25°	0	90	171	256	361	479	641	835	1058	1296	1495
22.5°	0	90	171	261	365	484	645	850	1087	1329	1542
20°	0	95	176	266	370	489	650	864	1115	1357	1580
17.5°	0	95	176	266	375	498	655	873	1139	1386	1614
15°	0	100	176	266	375	503	664	878	1163	1410	1647
12.5°	0	100	176	271	375	503	669	887	1186	1433	1671
10°	0	95	180	271	375	508	674	892	1201	1447	1694
7.5°	0	95	180	271	380	508	674	892	1215	1462	1708
5°	0	95	176	271	375	513	674	897	1234	1476	1723
2.5°	0	95	176	266	375	513	664	887	1229	1476	1732
0°	0	95	176	266	375	513	664	887	1229	1476	1732
-2.5°	0	95	176	266	375	513	664	887	1229	1476	1732
-5°	0	95	176	271	375	513	674	897	1234	1476	1723
-7.5°	0	95	180	271	380	508	674	892	1215	1462	1708
-10°	0	95	180	271	375	508	674	892	1201	1447	1694
-12.5°	0	100	176	271	375	503	669	887	1186	1433	1671
-15°	0	100	176	266	375	503	664	878	1163	1410	1647
-17.5°	0	95	176	266	375	498	655	873	1139	1386	1614
-20°	0	95	176	266	370	489	650	864	1115	1357	1580



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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	90	171	261	365	484	645	850	1087	1329	1542
-25°	0	90	171	256	361	479	641	835	1058	1296	1495
-27.5°	0	90	166	252	356	479	636	821	1030	1258	1452
-30°	0	85	166	252	346	475	626	802	1006	1215	1405
-32.5°	0	85	161	247	346	475	612	788	982	1177	1357
-35°	0	85	161	237	342	465	603	774	954	1139	1310
-37.5°	0	81	157	233	337	460	598	755	930	1106	1258
-40°	0	81	152	228	332	451	589	736	902	1073	1210
-42.5°	0	76	147	218	323	446	574	717	873	1025	1158
-45°	0	71	147	214	318	437	560	693	850	978	1101
-47.5°	0	71	142	209	309	422	546	679	821	930	1049
-50°	0	66	138	204	304	413	527	655	778	883	992
-52.5°	0	62	133	199	294	399	513	631	740	835	940
-55°	0	62	128	195	280	384	494	612	702	788	878
-57.5°	0	57	119	185	271	365	475	584	664	745	826
-60°	0	52	114	176	261	351	456	555	622	698	774
-62.5°	0	48	109	166	242	332	427	522	589	650	721
-65°	0	43	100	157	228	313	403	489	551	607	669
-67.5°	0	43	90	147	214	290	380	451	508	565	617
-70°	0	38	81	138	195	266	351	408	460	522	570
-72.5°	0	33	71	119	176	237	313	365	408	460	517
-75°	0	29	62	104	157	209	275	318	356	394	437
-77.5°	0	24	52	85	133	180	237	271	299	327	356
-80°	0	19	43	71	104	147	195	218	242	266	285
-82.5°	0	14	33	52	81	109	147	166	185	204	218
-85°	0	10	19	33	52	76	100	114	123	138	147
-87.5°	0	5	10	19	29	38	48	57	62	66	76
-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°	81	85	90	90	90	85	81	76	85	95	104
85°	157	171	176	185	180	171	166	157	176	195	218
82.5°	233	247	256	266	266	256	247	233	261	290	323
80°	304	323	342	356	356	342	327	309	342	384	427
77.5°	389	413	432	451	446	441	432	422	456	498	541
75°	475	508	522	541	551	546	546	555	593	645	693
72.5°	551	574	603	636	650	660	683	712	750	793	831
70°	612	641	679	712	740	769	802	840	878	921	959
67.5°	669	712	750	793	831	873	916	959	1001	1049	1096
65°	731	778	826	873	925	978	1030	1077	1130	1191	1243
62.5°	793	845	902	959	1020	1082	1144	1205	1277	1343	1410
60°	850	916	982	1054	1125	1196	1262	1343	1428	1504	1590
57.5°	906	987	1063	1144	1224	1305	1400	1490	1590	1689	1784
55°	968	1063	1148	1239	1329	1433	1538	1652	1761	1889	2007
52.5°	1035	1134	1234	1334	1447	1561	1685	1818	1960	2107	2254
50°	1101	1210	1319	1438	1566	1699	1846	2003	2174	2344	2525
47.5°	1163	1281	1414	1542	1689	1846	2017	2207	2397	2610	2838
45°	1229	1357	1500	1656	1818	2003	2207	2416	2658	2900	3165
42.5°	1296	1433	1595	1761	1960	2169	2392	2658	2928	3227	3550
40°	1353	1509	1689	1889	2102	2335	2610	2900	3232	3588	3986
37.5°	1419	1590	1784	2003	2249	2520	2838	3175	3559	3991	4470
35°	1481	1671	1884	2121	2397	2710	3066	3460	3906	4428	5011
32.5°	1542	1751	1979	2240	2544	2900	3303	3768	4295	4893	5624
30°	1604	1822	2069	2354	2696	3099	3564	4081	4689	5443	6312
27.5°	1661	1898	2164	2477	2843	3284	3811	4428	5144	5994	7009
25°	1718	1965	2254	2591	2999	3483	4058	4736	5595	6601	7807
22.5°	1770	2031	2335	2700	3142	3678	4323	5097	6041	7161	8580
20°	1822	2098	2420	2805	3265	3854	4565	5429	6502	7821	9396
17.5°	1865	2159	2501	2914	3417	4034	4788	5761	6919	8428	10184
15°	1908	2212	2572	3009	3550	4214	5030	6051	7361	9003	10868
12.5°	1941	2254	2634	3094	3664	4366	5239	6345	7788	9544	11461
10°	1965	2292	2681	3161	3759	4489	5410	6582	8134	9985	11954
7.5°	1988	2321	2719	3213	3830	4584	5543	6767	8400	10327	12334
5°	2007	2344	2748	3251	3877	4656	5643	6886	8590	10569	12604
2.5°	2022	2363	2772	3284	3915	4731	5733	7014	8770	10773	12847
0°	2022	2368	2772	3284	3910	4746	5747	7024	8794	10768	12880
-2.5°	2022	2363	2772	3284	3915	4731	5733	7014	8770	10773	12847
-5°	2007	2344	2748	3251	3877	4656	5643	6886	8590	10569	12604
-7.5°	1988	2321	2719	3213	3830	4584	5543	6767	8400	10327	12334
-10°	1965	2292	2681	3161	3759	4489	5410	6582	8134	9985	11954
-12.5°	1941	2254	2634	3094	3664	4366	5239	6345	7788	9544	11461
-15°	1908	2212	2572	3009	3550	4214	5030	6051	7361	9003	10868
-17.5°	1865	2159	2501	2914	3417	4034	4788	5761	6919	8428	10184
-20°	1822	2098	2420	2805	3265	3854	4565	5429	6502	7821	9396



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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°	1770	2031	2335	2700	3142	3678	4323	5097	6041	7161	8580
-25°	1718	1965	2254	2591	2999	3483	4058	4736	5595	6601	7807
-27.5°	1661	1898	2164	2477	2843	3284	3811	4428	5144	5994	7009
-30°	1604	1822	2069	2354	2696	3099	3564	4081	4689	5443	6312
-32.5°	1542	1751	1979	2240	2544	2900	3303	3768	4295	4893	5624
-35°	1481	1671	1884	2121	2397	2710	3066	3460	3906	4428	5011
-37.5°	1419	1590	1784	2003	2249	2520	2838	3175	3559	3991	4470
-40°	1353	1509	1689	1889	2102	2335	2610	2900	3232	3588	3986
-42.5°	1296	1433	1595	1761	1960	2169	2392	2658	2928	3227	3550
-45°	1229	1357	1500	1656	1818	2003	2207	2416	2658	2900	3165
-47.5°	1163	1281	1414	1542	1689	1846	2017	2207	2397	2610	2838
-50°	1101	1210	1319	1438	1566	1699	1846	2003	2174	2344	2525
-52.5°	1035	1134	1234	1334	1447	1561	1685	1818	1960	2107	2254
-55°	968	1063	1148	1239	1329	1433	1538	1652	1761	1889	2007
-57.5°	906	987	1063	1144	1224	1305	1400	1490	1590	1689	1784
-60°	850	916	982	1054	1125	1196	1262	1343	1428	1504	1590
-62.5°	793	845	902	959	1020	1082	1144	1205	1277	1343	1410
-65°	731	778	826	873	925	978	1030	1077	1130	1191	1243
-67.5°	669	712	750	793	831	873	916	959	1001	1049	1096
-70°	612	641	679	712	740	769	802	840	878	921	959
-72.5°	551	574	603	636	650	660	683	712	750	793	831
-75°	475	508	522	541	551	546	546	555	593	645	693
-77.5°	389	413	432	451	446	441	432	422	456	498	541
-80°	304	323	342	356	356	342	327	309	342	384	427
-82.5°	233	247	256	266	266	256	247	233	261	290	323
-85°	157	171	176	185	180	171	166	157	176	195	218
-87.5°	81	85	90	90	90	85	81	76	85	95	104
-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°	119	119	119	119	114	119	119	123	128	114	100
85°	237	242	242	242	242	242	242	242	242	218	195
82.5°	356	370	380	394	403	403	399	394	384	346	304
80°	470	494	508	522	536	532	527	517	513	465	418
77.5°	584	612	631	645	660	664	660	660	655	612	560
75°	731	755	774	793	812	821	826	826	826	788	740
72.5°	864	892	921	949	973	987	1001	1011	1020	1001	973
70°	1001	1035	1068	1101	1134	1158	1177	1196	1205	1210	1210
67.5°	1144	1186	1229	1272	1310	1343	1367	1391	1410	1428	1438
65°	1300	1357	1410	1457	1500	1542	1576	1609	1637	1661	1675
62.5°	1476	1542	1604	1666	1713	1765	1818	1865	1903	1936	1960
60°	1671	1751	1827	1903	1979	2041	2107	2164	2212	2254	2292
57.5°	1889	1988	2083	2183	2268	2349	2430	2510	2582	2639	2686
55°	2131	2254	2378	2496	2615	2724	2828	2933	3028	3104	3170
52.5°	2411	2558	2715	2862	3023	3165	3298	3441	3569	3683	3778
50°	2710	2900	3104	3294	3502	3702	3882	4062	4243	4399	4527
47.5°	3061	3289	3555	3816	4072	4342	4594	4831	5078	5287	5462
45°	3441	3759	4072	4423	4746	5111	5458	5804	6108	6411	6668
42.5°	3891	4290	4689	5140	5581	6041	6530	6967	7422	7868	8238
40°	4428	4898	5448	5989	6601	7180	7873	8485	9064	9629	10108
37.5°	5016	5638	6316	7005	7835	8651	9463	10232	10920	11551	12054
35°	5695	6478	7285	8286	9273	10270	11200	12073	12856	13497	14028
32.5°	6473	7399	8514	9676	10820	11926	13036	13900	14716	15447	16074
30°	7299	8504	9805	11105	12353	13554	14674	15713	16662	17483	18185
27.5°	8267	9662	11110	12505	13843	15139	16410	17597	18636	19500	20373
25°	9226	10825	12372	13848	15295	16743	18143	19476	20691	21749	22694
22.5°	10236	11907	13539	15105	16747	18323	19856	21374	22770	23989	25052
20°	11171	12965	14631	16377	18157	19865	21588	23230	24787	26258	27468
17.5°	12007	13834	15651	17492	19433	21370	23239	25019	26794	28507	30016
15°	12752	14669	16534	18541	20634	22717	24801	26761	28759	30657	32346
12.5°	13411	15390	17374	19509	21697	23866	26149	28426	30643	32688	34520
10°	13957	16012	18138	20349	22623	24915	27373	29902	32275	34449	36442
7.5°	14370	16482	18703	21000	23396	25850	28417	30994	33504	35839	37927
5°	14664	16795	19078	21422	23918	26481	29219	31967	34529	36945	39080
2.5°	14930	17075	19400	21654	24198	26856	29599	32446	35066	37548	39925
0°	15001	17189	19538	21854	24326	26993	29788	32569	35255	37951	40186
-2.5°	14930	17075	19400	21654	24198	26856	29599	32446	35066	37548	39925
-5°	14664	16795	19078	21422	23918	26481	29219	31967	34529	36945	39080
-7.5°	14370	16482	18703	21000	23396	25850	28417	30994	33504	35839	37927
-10°	13957	16012	18138	20349	22623	24915	27373	29902	32275	34449	36442
-12.5°	13411	15390	17374	19509	21697	23866	26149	28426	30643	32688	34520
-15°	12752	14669	16534	18541	20634	22717	24801	26761	28759	30657	32346
-17.5°	12007	13834	15651	17492	19433	21370	23239	25019	26794	28507	30016
-20°	11171	12965	14631	16377	18157	19865	21588	23230	24787	26258	27468



REPORT NUMBER: P622352
 CATALOG NUMBER: EPH-VN-08-E-930-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10236	11907	13539	15105	16747	18323	19856	21374	22770	23989	25052
-25°	9226	10825	12372	13848	15295	16743	18143	19476	20691	21749	22694
-27.5°	8267	9662	11110	12505	13843	15139	16410	17597	18636	19500	20373
-30°	7299	8504	9805	11105	12353	13554	14674	15713	16662	17483	18185
-32.5°	6473	7399	8514	9676	10820	11926	13036	13900	14716	15447	16074
-35°	5695	6478	7285	8286	9273	10270	11200	12073	12856	13497	14028
-37.5°	5016	5638	6316	7005	7835	8651	9463	10232	10920	11551	12054
-40°	4428	4898	5448	5989	6601	7180	7873	8485	9064	9629	10108
-42.5°	3891	4290	4689	5140	5581	6041	6530	6967	7422	7868	8238
-45°	3441	3759	4072	4423	4746	5111	5458	5804	6108	6411	6668
-47.5°	3061	3289	3555	3816	4072	4342	4594	4831	5078	5287	5462
-50°	2710	2900	3104	3294	3502	3702	3882	4062	4243	4399	4527
-52.5°	2411	2558	2715	2862	3023	3165	3298	3441	3569	3683	3778
-55°	2131	2254	2378	2496	2615	2724	2828	2933	3028	3104	3170
-57.5°	1889	1988	2083	2183	2268	2349	2430	2510	2582	2639	2686
-60°	1671	1751	1827	1903	1979	2041	2107	2164	2212	2254	2292
-62.5°	1476	1542	1604	1666	1713	1765	1818	1865	1903	1936	1960
-65°	1300	1357	1410	1457	1500	1542	1576	1609	1637	1661	1675
-67.5°	1144	1186	1229	1272	1310	1343	1367	1391	1410	1428	1438
-70°	1001	1035	1068	1101	1134	1158	1177	1196	1205	1210	1210
-72.5°	864	892	921	949	973	987	1001	1011	1020	1001	973
-75°	731	755	774	793	812	821	826	826	826	788	740
-77.5°	584	612	631	645	660	664	660	660	655	612	560
-80°	470	494	508	522	536	532	527	517	513	465	418
-82.5°	356	370	380	394	403	403	399	394	384	346	304
-85°	237	242	242	242	242	242	242	242	242	218	195
-87.5°	119	119	119	119	114	119	119	123	128	114	100
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622352
 CATALOG NUMBER: EPH-VN-08-E-930-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°	81	66	62	52	62	66	81	100	114	128	123
85°	166	138	133	123	133	138	166	195	218	242	242
82.5°	266	218	209	199	209	218	266	304	346	384	394
80°	375	318	309	299	309	318	375	418	465	513	517
77.5°	508	456	437	422	437	456	508	560	612	655	660
75°	688	636	622	607	622	636	688	740	788	826	826
72.5°	940	916	878	845	878	916	940	973	1001	1020	1011
70°	1215	1224	1215	1201	1215	1224	1215	1210	1210	1205	1196
67.5°	1443	1452	1452	1457	1452	1452	1443	1438	1428	1410	1391
65°	1689	1694	1708	1713	1708	1694	1689	1675	1661	1637	1609
62.5°	1974	1988	1998	1998	1998	1988	1974	1960	1936	1903	1865
60°	2316	2335	2359	2363	2359	2335	2316	2292	2254	2212	2164
57.5°	2724	2748	2781	2790	2781	2748	2724	2686	2639	2582	2510
55°	3218	3251	3270	3260	3270	3251	3218	3170	3104	3028	2933
52.5°	3858	3915	3953	3934	3953	3915	3858	3778	3683	3569	3441
50°	4632	4703	4750	4736	4750	4703	4632	4527	4399	4243	4062
47.5°	5600	5700	5780	5785	5780	5700	5600	5462	5287	5078	4831
45°	6872	7019	7128	7109	7128	7019	6872	6668	6411	6108	5804
42.5°	8523	8727	8889	8874	8889	8727	8523	8238	7868	7422	6967
40°	10464	10716	10929	10986	10929	10716	10464	10108	9629	9064	8485
37.5°	12462	12785	13055	13027	13055	12785	12462	12054	11551	10920	10232
35°	14470	14806	15072	15096	15072	14806	14470	14028	13497	12856	12073
32.5°	16572	16947	17260	17303	17260	16947	16572	16074	15447	14716	13900
30°	18764	19215	19590	19666	19590	19215	18764	18185	17483	16662	15713
27.5°	21071	21607	21963	22101	21963	21607	21071	20373	19500	18636	17597
25°	23448	24032	24431	24654	24431	24032	23448	22694	21749	20691	19476
22.5°	25930	26623	27140	27387	27140	26623	25930	25052	23989	22770	21374
20°	28493	29247	29850	30106	29850	29247	28493	27468	26258	24787	23230
17.5°	31103	32024	32693	33020	32693	32024	31103	30016	28507	26794	25019
15°	33637	34615	35341	35692	35341	34615	33637	32346	30657	28759	26761
12.5°	35986	37021	37747	38255	37747	37021	35986	34520	32688	30643	28426
10°	38084	39213	39949	40476	39949	39213	38084	36442	34449	32275	29902
7.5°	39655	41083	41914	42431	41914	41083	39655	37927	35839	33504	30994
5°	40860	42436	43190	43679	43190	42436	40860	39080	36945	34529	31967
2.5°	41743	42986	43930	44419	43930	42986	41743	39925	37548	35066	32446
0°	42089	43551	44220	44538	44220	43551	42089	40186	37951	35255	32569
-2.5°	41743	42986	43930	44419	43930	42986	41743	39925	37548	35066	32446
-5°	40860	42436	43190	43679	43190	42436	40860	39080	36945	34529	31967
-7.5°	39655	41083	41914	42431	41914	41083	39655	37927	35839	33504	30994
-10°	38084	39213	39949	40476	39949	39213	38084	36442	34449	32275	29902
-12.5°	35986	37021	37747	38255	37747	37021	35986	34520	32688	30643	28426
-15°	33637	34615	35341	35692	35341	34615	33637	32346	30657	28759	26761
-17.5°	31103	32024	32693	33020	32693	32024	31103	30016	28507	26794	25019
-20°	28493	29247	29850	30106	29850	29247	28493	27468	26258	24787	23230



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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°	25930	26623	27140	27387	27140	26623	25930	25052	23989	22770	21374
-25°	23448	24032	24431	24654	24431	24032	23448	22694	21749	20691	19476
-27.5°	21071	21607	21963	22101	21963	21607	21071	20373	19500	18636	17597
-30°	18764	19215	19590	19666	19590	19215	18764	18185	17483	16662	15713
-32.5°	16572	16947	17260	17303	17260	16947	16572	16074	15447	14716	13900
-35°	14470	14806	15072	15096	15072	14806	14470	14028	13497	12856	12073
-37.5°	12462	12785	13055	13027	13055	12785	12462	12054	11551	10920	10232
-40°	10464	10716	10929	10986	10929	10716	10464	10108	9629	9064	8485
-42.5°	8523	8727	8889	8874	8889	8727	8523	8238	7868	7422	6967
-45°	6872	7019	7128	7109	7128	7019	6872	6668	6411	6108	5804
-47.5°	5600	5700	5780	5785	5780	5700	5600	5462	5287	5078	4831
-50°	4632	4703	4750	4736	4750	4703	4632	4527	4399	4243	4062
-52.5°	3858	3915	3953	3934	3953	3915	3858	3778	3683	3569	3441
-55°	3218	3251	3270	3260	3270	3251	3218	3170	3104	3028	2933
-57.5°	2724	2748	2781	2790	2781	2748	2724	2686	2639	2582	2510
-60°	2316	2335	2359	2363	2359	2335	2316	2292	2254	2212	2164
-62.5°	1974	1988	1998	1998	1998	1988	1974	1960	1936	1903	1865
-65°	1689	1694	1708	1713	1708	1694	1689	1675	1661	1637	1609
-67.5°	1443	1452	1452	1457	1452	1452	1443	1438	1428	1410	1391
-70°	1215	1224	1215	1201	1215	1224	1215	1210	1210	1205	1196
-72.5°	940	916	878	845	878	916	940	973	1001	1020	1011
-75°	688	636	622	607	622	636	688	740	788	826	826
-77.5°	508	456	437	422	437	456	508	560	612	655	660
-80°	375	318	309	299	309	318	375	418	465	513	517
-82.5°	266	218	209	199	209	218	266	304	346	384	394
-85°	166	138	133	123	133	138	166	195	218	242	242
-87.5°	81	66	62	52	62	66	81	100	114	128	123
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: EPH-VN-08-E-930-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°	119	119	114	119	119	119	119	104	95	85	76
85°	242	242	242	242	242	242	237	218	195	176	157
82.5°	399	403	403	394	380	370	356	323	290	261	233
80°	527	532	536	522	508	494	470	427	384	342	309
77.5°	660	664	660	645	631	612	584	541	498	456	422
75°	826	821	812	793	774	755	731	693	645	593	555
72.5°	1001	987	973	949	921	892	864	831	793	750	712
70°	1177	1158	1134	1101	1068	1035	1001	959	921	878	840
67.5°	1367	1343	1310	1272	1229	1186	1144	1096	1049	1001	959
65°	1576	1542	1500	1457	1410	1357	1300	1243	1191	1130	1077
62.5°	1818	1765	1713	1666	1604	1542	1476	1410	1343	1277	1205
60°	2107	2041	1979	1903	1827	1751	1671	1590	1504	1428	1343
57.5°	2430	2349	2268	2183	2083	1988	1889	1784	1689	1590	1490
55°	2828	2724	2615	2496	2378	2254	2131	2007	1889	1761	1652
52.5°	3298	3165	3023	2862	2715	2558	2411	2254	2107	1960	1818
50°	3882	3702	3502	3294	3104	2900	2710	2525	2344	2174	2003
47.5°	4594	4342	4072	3816	3555	3289	3061	2838	2610	2397	2207
45°	5458	5111	4746	4423	4072	3759	3441	3165	2900	2658	2416
42.5°	6530	6041	5581	5140	4689	4290	3891	3550	3227	2928	2658
40°	7873	7180	6601	5989	5448	4898	4428	3986	3588	3232	2900
37.5°	9463	8651	7835	7005	6316	5638	5016	4470	3991	3559	3175
35°	11200	10270	9273	8286	7285	6478	5695	5011	4428	3906	3460
32.5°	13036	11926	10820	9676	8514	7399	6473	5624	4893	4295	3768
30°	14674	13554	12353	11105	9805	8504	7299	6312	5443	4689	4081
27.5°	16410	15139	13843	12505	11110	9662	8267	7009	5994	5144	4428
25°	18143	16743	15295	13848	12372	10825	9226	7807	6601	5595	4736
22.5°	19856	18323	16747	15105	13539	11907	10236	8580	7161	6041	5097
20°	21588	19865	18157	16377	14631	12965	11171	9396	7821	6502	5429
17.5°	23239	21370	19433	17492	15651	13834	12007	10184	8428	6919	5761
15°	24801	22717	20634	18541	16534	14669	12752	10868	9003	7361	6051
12.5°	26149	23866	21697	19509	17374	15390	13411	11461	9544	7788	6345
10°	27373	24915	22623	20349	18138	16012	13957	11954	9985	8134	6582
7.5°	28417	25850	23396	21000	18703	16482	14370	12334	10327	8400	6767
5°	29219	26481	23918	21422	19078	16795	14664	12604	10569	8590	6886
2.5°	29599	26856	24198	21654	19400	17075	14930	12847	10773	8770	7014
0°	29788	26993	24326	21854	19538	17189	15001	12880	10768	8794	7024
-2.5°	29599	26856	24198	21654	19400	17075	14930	12847	10773	8770	7014
-5°	29219	26481	23918	21422	19078	16795	14664	12604	10569	8590	6886
-7.5°	28417	25850	23396	21000	18703	16482	14370	12334	10327	8400	6767
-10°	27373	24915	22623	20349	18138	16012	13957	11954	9985	8134	6582
-12.5°	26149	23866	21697	19509	17374	15390	13411	11461	9544	7788	6345
-15°	24801	22717	20634	18541	16534	14669	12752	10868	9003	7361	6051
-17.5°	23239	21370	19433	17492	15651	13834	12007	10184	8428	6919	5761
-20°	21588	19865	18157	16377	14631	12965	11171	9396	7821	6502	5429



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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°	19856	18323	16747	15105	13539	11907	10236	8580	7161	6041	5097
-25°	18143	16743	15295	13848	12372	10825	9226	7807	6601	5595	4736
-27.5°	16410	15139	13843	12505	11110	9662	8267	7009	5994	5144	4428
-30°	14674	13554	12353	11105	9805	8504	7299	6312	5443	4689	4081
-32.5°	13036	11926	10820	9676	8514	7399	6473	5624	4893	4295	3768
-35°	11200	10270	9273	8286	7285	6478	5695	5011	4428	3906	3460
-37.5°	9463	8651	7835	7005	6316	5638	5016	4470	3991	3559	3175
-40°	7873	7180	6601	5989	5448	4898	4428	3986	3588	3232	2900
-42.5°	6530	6041	5581	5140	4689	4290	3891	3550	3227	2928	2658
-45°	5458	5111	4746	4423	4072	3759	3441	3165	2900	2658	2416
-47.5°	4594	4342	4072	3816	3555	3289	3061	2838	2610	2397	2207
-50°	3882	3702	3502	3294	3104	2900	2710	2525	2344	2174	2003
-52.5°	3298	3165	3023	2862	2715	2558	2411	2254	2107	1960	1818
-55°	2828	2724	2615	2496	2378	2254	2131	2007	1889	1761	1652
-57.5°	2430	2349	2268	2183	2083	1988	1889	1784	1689	1590	1490
-60°	2107	2041	1979	1903	1827	1751	1671	1590	1504	1428	1343
-62.5°	1818	1765	1713	1666	1604	1542	1476	1410	1343	1277	1205
-65°	1576	1542	1500	1457	1410	1357	1300	1243	1191	1130	1077
-67.5°	1367	1343	1310	1272	1229	1186	1144	1096	1049	1001	959
-70°	1177	1158	1134	1101	1068	1035	1001	959	921	878	840
-72.5°	1001	987	973	949	921	892	864	831	793	750	712
-75°	826	821	812	793	774	755	731	693	645	593	555
-77.5°	660	664	660	645	631	612	584	541	498	456	422
-80°	527	532	536	522	508	494	470	427	384	342	309
-82.5°	399	403	403	394	380	370	356	323	290	261	233
-85°	242	242	242	242	242	242	237	218	195	176	157
-87.5°	119	119	114	119	119	119	119	104	95	85	76
-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°	81	85	90	90	90	85	81	76	66	62	57
85°	166	171	180	185	176	171	157	147	138	123	114
82.5°	247	256	266	266	256	247	233	218	204	185	166
80°	327	342	356	356	342	323	304	285	266	242	218
77.5°	432	441	446	451	432	413	389	356	327	299	271
75°	546	546	551	541	522	508	475	437	394	356	318
72.5°	683	660	650	636	603	574	551	517	460	408	365
70°	802	769	740	712	679	641	612	570	522	460	408
67.5°	916	873	831	793	750	712	669	617	565	508	451
65°	1030	978	925	873	826	778	731	669	607	551	489
62.5°	1144	1082	1020	959	902	845	793	721	650	589	522
60°	1262	1196	1125	1054	982	916	850	774	698	622	555
57.5°	1400	1305	1224	1144	1063	987	906	826	745	664	584
55°	1538	1433	1329	1239	1148	1063	968	878	788	702	612
52.5°	1685	1561	1447	1334	1234	1134	1035	940	835	740	631
50°	1846	1699	1566	1438	1319	1210	1101	992	883	778	655
47.5°	2017	1846	1689	1542	1414	1281	1163	1049	930	821	679
45°	2207	2003	1818	1656	1500	1357	1229	1101	978	850	693
42.5°	2392	2169	1960	1761	1595	1433	1296	1158	1025	873	717
40°	2610	2335	2102	1889	1689	1509	1353	1210	1073	902	736
37.5°	2838	2520	2249	2003	1784	1590	1419	1258	1106	930	755
35°	3066	2710	2397	2121	1884	1671	1481	1310	1139	954	774
32.5°	3303	2900	2544	2240	1979	1751	1542	1357	1177	982	788
30°	3564	3099	2696	2354	2069	1822	1604	1405	1215	1006	802
27.5°	3811	3284	2843	2477	2164	1898	1661	1452	1258	1030	821
25°	4058	3483	2999	2591	2254	1965	1718	1495	1296	1058	835
22.5°	4323	3678	3142	2700	2335	2031	1770	1542	1329	1087	850
20°	4565	3854	3265	2805	2420	2098	1822	1580	1357	1115	864
17.5°	4788	4034	3417	2914	2501	2159	1865	1614	1386	1139	873
15°	5030	4214	3550	3009	2572	2212	1908	1647	1410	1163	878
12.5°	5239	4366	3664	3094	2634	2254	1941	1671	1433	1186	887
10°	5410	4489	3759	3161	2681	2292	1965	1694	1447	1201	892
7.5°	5543	4584	3830	3213	2719	2321	1988	1708	1462	1215	892
5°	5643	4656	3877	3251	2748	2344	2007	1723	1476	1234	897
2.5°	5733	4731	3915	3284	2772	2363	2022	1732	1476	1229	887
0°	5747	4746	3910	3284	2772	2368	2022	1732	1471	1224	878
-2.5°	5733	4731	3915	3284	2772	2363	2022	1732	1476	1229	887
-5°	5643	4656	3877	3251	2748	2344	2007	1723	1476	1234	897
-7.5°	5543	4584	3830	3213	2719	2321	1988	1708	1462	1215	892
-10°	5410	4489	3759	3161	2681	2292	1965	1694	1447	1201	892
-12.5°	5239	4366	3664	3094	2634	2254	1941	1671	1433	1186	887
-15°	5030	4214	3550	3009	2572	2212	1908	1647	1410	1163	878
-17.5°	4788	4034	3417	2914	2501	2159	1865	1614	1386	1139	873
-20°	4565	3854	3265	2805	2420	2098	1822	1580	1357	1115	864



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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°	4323	3678	3142	2700	2335	2031	1770	1542	1329	1087	850
-25°	4058	3483	2999	2591	2254	1965	1718	1495	1296	1058	835
-27.5°	3811	3284	2843	2477	2164	1898	1661	1452	1258	1030	821
-30°	3564	3099	2696	2354	2069	1822	1604	1405	1215	1006	802
-32.5°	3303	2900	2544	2240	1979	1751	1542	1357	1177	982	788
-35°	3066	2710	2397	2121	1884	1671	1481	1310	1139	954	774
-37.5°	2838	2520	2249	2003	1784	1590	1419	1258	1106	930	755
-40°	2610	2335	2102	1889	1689	1509	1353	1210	1073	902	736
-42.5°	2392	2169	1960	1761	1595	1433	1296	1158	1025	873	717
-45°	2207	2003	1818	1656	1500	1357	1229	1101	978	850	693
-47.5°	2017	1846	1689	1542	1414	1281	1163	1049	930	821	679
-50°	1846	1699	1566	1438	1319	1210	1101	992	883	778	655
-52.5°	1685	1561	1447	1334	1234	1134	1035	940	835	740	631
-55°	1538	1433	1329	1239	1148	1063	968	878	788	702	612
-57.5°	1400	1305	1224	1144	1063	987	906	826	745	664	584
-60°	1262	1196	1125	1054	982	916	850	774	698	622	555
-62.5°	1144	1082	1020	959	902	845	793	721	650	589	522
-65°	1030	978	925	873	826	778	731	669	607	551	489
-67.5°	916	873	831	793	750	712	669	617	565	508	451
-70°	802	769	740	712	679	641	612	570	522	460	408
-72.5°	683	660	650	636	603	574	551	517	460	408	365
-75°	546	546	551	541	522	508	475	437	394	356	318
-77.5°	432	441	446	451	432	413	389	356	327	299	271
-80°	327	342	356	356	342	323	304	285	266	242	218
-82.5°	247	256	266	266	256	247	233	218	204	185	166
-85°	166	171	180	185	176	171	157	147	138	123	114
-87.5°	81	85	90	90	90	85	81	76	66	62	57
-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°	48	38	29	19	10	5	0
85°	100	76	52	33	19	10	0
82.5°	147	109	81	52	33	14	0
80°	195	147	104	71	43	19	0
77.5°	237	180	133	85	52	24	0
75°	275	209	157	104	62	29	0
72.5°	313	237	176	119	71	33	0
70°	351	266	195	138	81	38	0
67.5°	380	290	214	147	90	43	0
65°	403	313	228	157	100	43	0
62.5°	427	332	242	166	109	48	0
60°	456	351	261	176	114	52	0
57.5°	475	365	271	185	119	57	0
55°	494	384	280	195	128	62	0
52.5°	513	399	294	199	133	62	0
50°	527	413	304	204	138	66	0
47.5°	546	422	309	209	142	71	0
45°	560	437	318	214	147	71	0
42.5°	574	446	323	218	147	76	0
40°	589	451	332	228	152	81	0
37.5°	598	460	337	233	157	81	0
35°	603	465	342	237	161	85	0
32.5°	612	475	346	247	161	85	0
30°	626	475	346	252	166	85	0
27.5°	636	479	356	252	166	90	0
25°	641	479	361	256	171	90	0
22.5°	645	484	365	261	171	90	0
20°	650	489	370	266	176	95	0
17.5°	655	498	375	266	176	95	0
15°	664	503	375	266	176	100	0
12.5°	669	503	375	271	176	100	0
10°	674	508	375	271	180	95	0
7.5°	674	508	380	271	180	95	0
5°	674	513	375	271	176	95	0
2.5°	664	513	375	266	176	95	0
0°	660	508	370	266	176	95	0
-2.5°	664	513	375	266	176	95	0
-5°	674	513	375	271	176	95	0
-7.5°	674	508	380	271	180	95	0
-10°	674	508	375	271	180	95	0
-12.5°	669	503	375	271	176	100	0
-15°	664	503	375	266	176	100	0
-17.5°	655	498	375	266	176	95	0
-20°	650	489	370	266	176	95	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	645	484	365	261	171	90	0
-25°	641	479	361	256	171	90	0
-27.5°	636	479	356	252	166	90	0
-30°	626	475	346	252	166	85	0
-32.5°	612	475	346	247	161	85	0
-35°	603	465	342	237	161	85	0
-37.5°	598	460	337	233	157	81	0
-40°	589	451	332	228	152	81	0
-42.5°	574	446	323	218	147	76	0
-45°	560	437	318	214	147	71	0
-47.5°	546	422	309	209	142	71	0
-50°	527	413	304	204	138	66	0
-52.5°	513	399	294	199	133	62	0
-55°	494	384	280	195	128	62	0
-57.5°	475	365	271	185	119	57	0
-60°	456	351	261	176	114	52	0
-62.5°	427	332	242	166	109	48	0
-65°	403	313	228	157	100	43	0
-67.5°	380	290	214	147	90	43	0
-70°	351	266	195	138	81	38	0
-72.5°	313	237	176	119	71	33	0
-75°	275	209	157	104	62	29	0
-77.5°	237	180	133	85	52	24	0
-80°	195	147	104	71	43	19	0
-82.5°	147	109	81	52	33	14	0
-85°	100	76	52	33	19	10	0
-87.5°	48	38	29	19	10	5	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)