

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: P622370

Luminaire Tested: **EPH-VN-08-E-950-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P622370
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-950-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (128) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

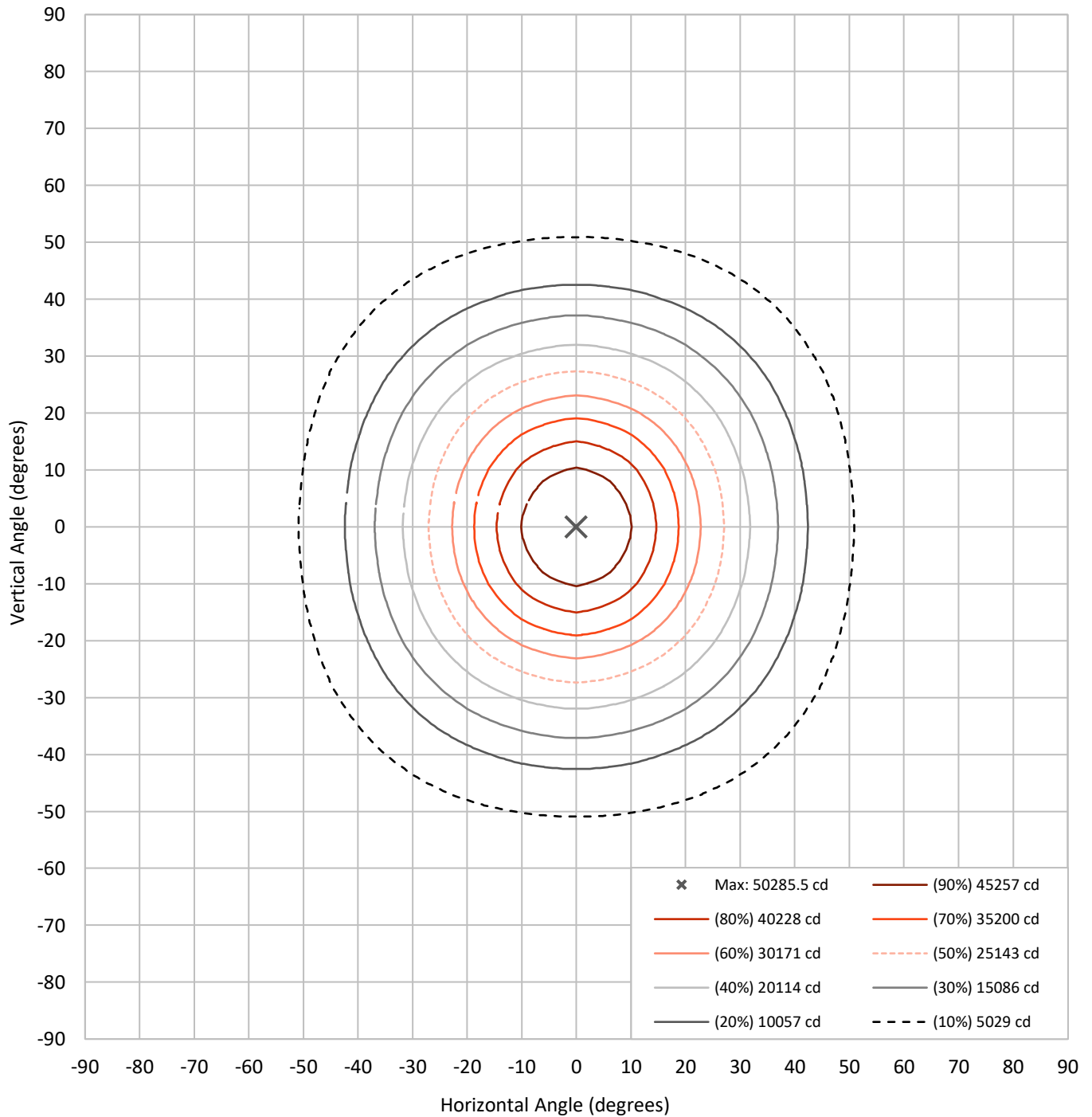
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	52154.3 lumens	Max Intensity:	50285.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	83.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	25076 lumens	Field Lumens:	45770.5 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





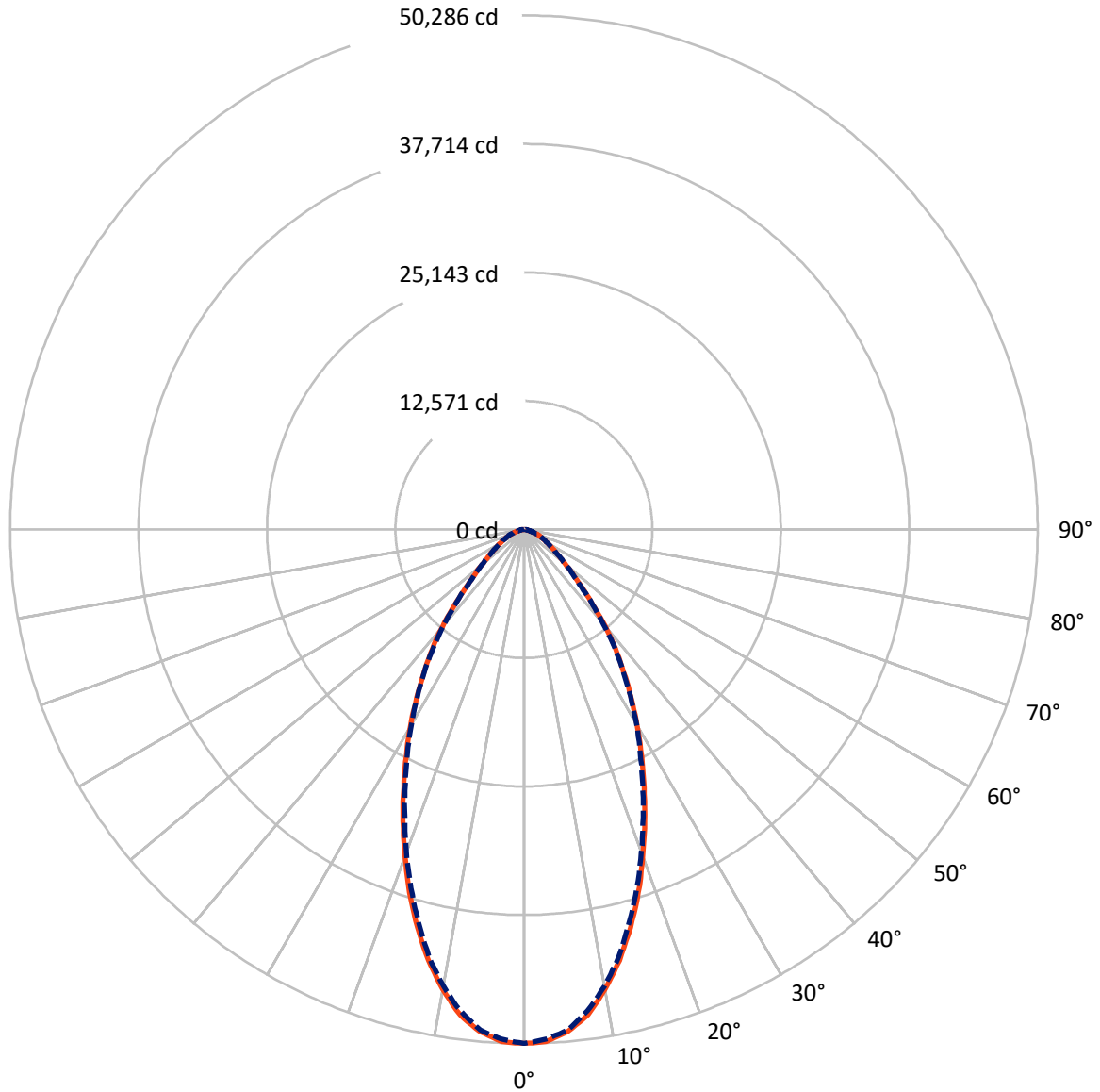
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Lumen Table

90	3.7	22.4	45.0	68.6	58.9	68.6	45.0	22.4	3.7							
80	3.7	22.4	45.0	68.6	58.9	68.6	45.0	22.4	3.7							
70	9.2	9.8	17.4	26.4	37.0	47.3	55.1	59.1	59.1	55.1	47.3	37.0	26.4	17.4	9.8	9.2
60		12.9	24.6	40.5	60.8	82.8	102.6	114.5	114.5	102.6	82.8	60.8	40.5	24.6	12.9	
50	12.3	16.2	33.1	59.7	99.1	151.9	209.2	248.1	248.1	209.2	151.9	99.1	59.7	33.1	16.2	12.3
40		19.3	42.7	86.0	164.9	291.6	424.1	506.5	506.5	424.1	291.6	164.9	86.0	42.7	19.3	
30	14.2	22.2	52.5	119.1	263.9	476.2	684.0	820.9	820.9	684.0	476.2	263.9	119.1	52.5	22.2	14.2
20		24.5	61.3	153.3	359.4	641.2	949.5	1172.4	1172.4	949.5	641.2	359.4	153.3	61.3	24.5	
10	14.9	25.8	66.6	175.8	414.9	743.7	1132.5	1423.4	1423.4	1132.5	743.7	414.9	175.8	66.6	25.8	14.9
0		25.8	66.6	175.8	414.9	743.7	1132.5	1423.4	1423.4	1132.5	743.7	414.9	175.8	66.6	25.8	
-10	14.2	24.5	61.3	153.3	359.4	641.2	949.5	1172.4	1172.4	949.5	641.2	359.4	153.3	61.3	24.5	14.2
-20		22.2	52.5	119.1	263.9	476.2	684.0	820.9	820.9	684.0	476.2	263.9	119.1	52.5	22.2	
-30	12.3	19.3	42.7	86.0	164.9	291.6	424.1	506.5	506.5	424.1	291.6	164.9	86.0	42.7	19.3	12.3
-40		16.2	33.1	59.7	99.1	151.9	209.2	248.1	248.1	209.2	151.9	99.1	59.7	33.1	16.2	
-50	9.2	12.9	24.6	40.5	60.8	82.8	102.6	114.5	114.5	102.6	82.8	60.8	40.5	24.6	12.9	9.2
-60		9.8	17.4	26.4	37.0	47.3	55.1	59.1	59.1	55.1	47.3	37.0	26.4	17.4	9.8	
-70	3.7	22.4	45.0	68.6	58.9	68.6	45.0	22.4	3.7							
-80		3.7	22.4	45.0	68.6	58.9	68.6	45.0	22.4	3.7						
-90	3.7	22.4	45.0	68.6	58.9	68.6	45.0	22.4	3.7							

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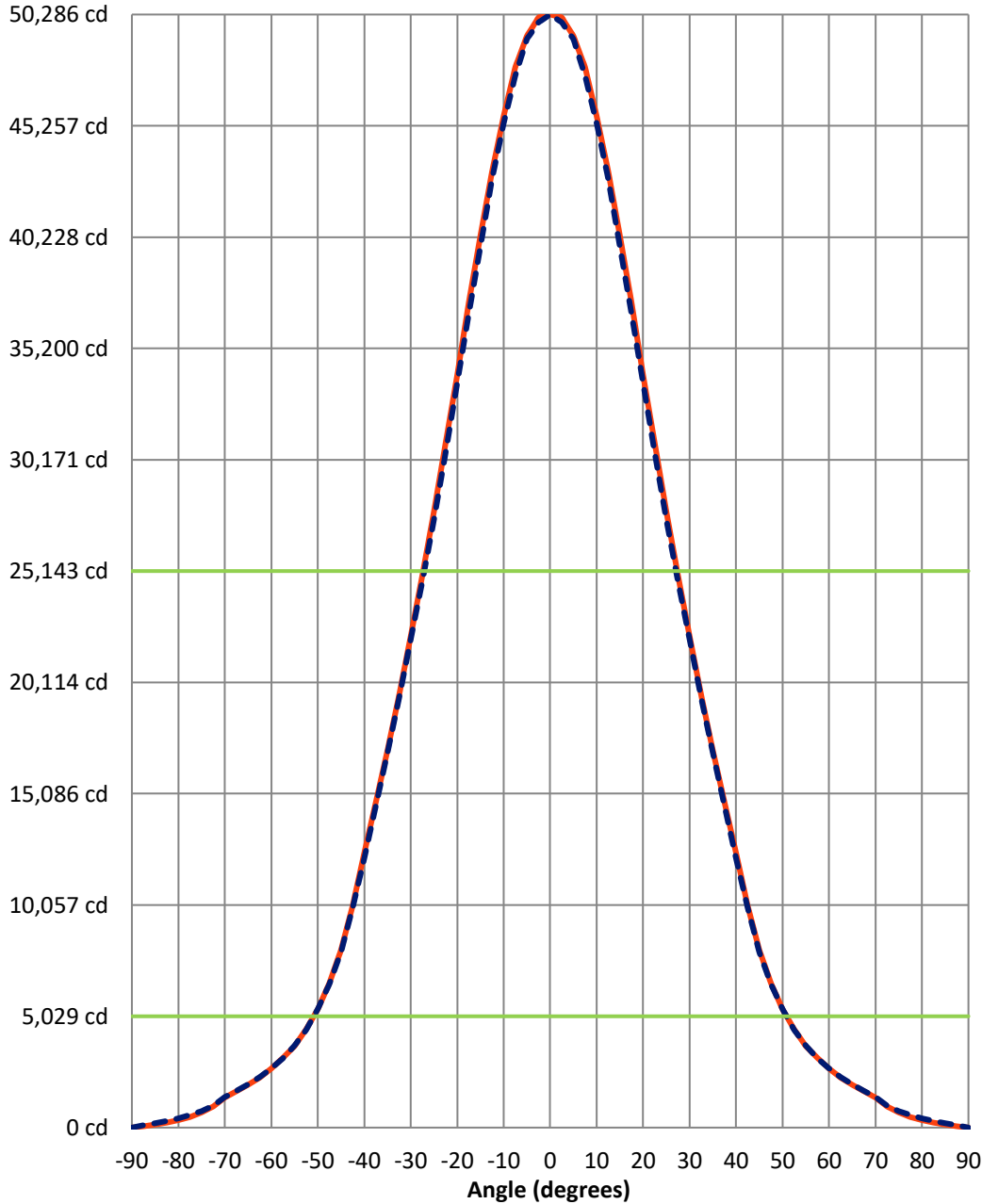
Luminous Intensity Polar Plot



— 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: 25076
 Efficiency: 48.1%

Field:
 H Angle: 101.7°
 V Angle: 101.8°
 Lumens: 45770.5
 Efficiency: 87.8%

Spill:
 Lumens: 6383.8
 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	11	21	32	43	54	64	70	75	86
85°	0	11	21	38	59	86	113	129	139	155	166
82.5°	0	16	38	59	91	123	166	188	209	230	247
80°	0	21	48	80	118	166	220	247	273	300	322
77.5°	0	27	59	96	150	204	268	305	338	370	402
75°	0	32	70	118	177	236	311	359	402	445	493
72.5°	0	38	80	134	198	268	354	413	461	520	584
70°	0	43	91	155	220	300	397	461	520	589	643
67.5°	0	48	102	166	241	327	429	509	573	638	697
65°	0	48	113	177	257	354	455	552	622	686	756
62.5°	0	54	123	188	273	375	482	589	664	734	814
60°	0	59	129	198	295	397	514	627	702	788	873
57.5°	0	64	134	209	305	413	536	659	750	841	932
55°	0	70	145	220	316	434	557	691	793	889	991
52.5°	0	70	150	225	332	450	579	713	836	943	1061
50°	0	75	155	230	343	466	595	739	879	997	1120
47.5°	0	80	161	236	348	477	616	766	927	1050	1184
45°	0	80	166	241	359	493	632	782	959	1104	1243
42.5°	0	86	166	247	364	504	648	809	986	1157	1307
40°	0	91	172	257	375	509	664	831	1018	1211	1366
37.5°	0	91	177	263	380	520	675	852	1050	1248	1420
35°	0	96	182	268	386	525	681	873	1077	1286	1479
32.5°	0	96	182	279	391	536	691	889	1109	1329	1532
30°	0	96	188	284	391	536	707	906	1136	1372	1586
27.5°	0	102	188	284	402	541	718	927	1163	1420	1640
25°	0	102	193	289	407	541	723	943	1195	1463	1688
22.5°	0	102	193	295	413	547	729	959	1227	1500	1741
20°	0	107	198	300	418	552	734	975	1259	1532	1784
17.5°	0	107	198	300	423	563	739	986	1286	1565	1822
15°	0	113	198	300	423	568	750	991	1313	1591	1859
12.5°	0	113	198	305	423	568	756	1002	1340	1618	1886
10°	0	107	204	305	423	573	761	1007	1356	1634	1913
7.5°	0	107	204	305	429	573	761	1007	1372	1650	1929
5°	0	107	198	305	423	579	761	1013	1393	1666	1945
2.5°	0	107	198	300	423	579	750	1002	1388	1666	1956
0°	0	107	198	300	418	573	745	991	1382	1661	1956
-2.5°	0	107	198	300	423	579	750	1002	1388	1666	1956
-5°	0	107	198	305	423	579	761	1013	1393	1666	1945
-7.5°	0	107	204	305	429	573	761	1007	1372	1650	1929
-10°	0	107	204	305	423	573	761	1007	1356	1634	1913
-12.5°	0	113	198	305	423	568	756	1002	1340	1618	1886
-15°	0	113	198	300	423	568	750	991	1313	1591	1859
-17.5°	0	107	198	300	423	563	739	986	1286	1565	1822
-20°	0	107	198	300	418	552	734	975	1259	1532	1784



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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	102	193	295	413	547	729	959	1227	1500	1741
-25°	0	102	193	289	407	541	723	943	1195	1463	1688
-27.5°	0	102	188	284	402	541	718	927	1163	1420	1640
-30°	0	96	188	284	391	536	707	906	1136	1372	1586
-32.5°	0	96	182	279	391	536	691	889	1109	1329	1532
-35°	0	96	182	268	386	525	681	873	1077	1286	1479
-37.5°	0	91	177	263	380	520	675	852	1050	1248	1420
-40°	0	91	172	257	375	509	664	831	1018	1211	1366
-42.5°	0	86	166	247	364	504	648	809	986	1157	1307
-45°	0	80	166	241	359	493	632	782	959	1104	1243
-47.5°	0	80	161	236	348	477	616	766	927	1050	1184
-50°	0	75	155	230	343	466	595	739	879	997	1120
-52.5°	0	70	150	225	332	450	579	713	836	943	1061
-55°	0	70	145	220	316	434	557	691	793	889	991
-57.5°	0	64	134	209	305	413	536	659	750	841	932
-60°	0	59	129	198	295	397	514	627	702	788	873
-62.5°	0	54	123	188	273	375	482	589	664	734	814
-65°	0	48	113	177	257	354	455	552	622	686	756
-67.5°	0	48	102	166	241	327	429	509	573	638	697
-70°	0	43	91	155	220	300	397	461	520	589	643
-72.5°	0	38	80	134	198	268	354	413	461	520	584
-75°	0	32	70	118	177	236	311	359	402	445	493
-77.5°	0	27	59	96	150	204	268	305	338	370	402
-80°	0	21	48	80	118	166	220	247	273	300	322
-82.5°	0	16	38	59	91	123	166	188	209	230	247
-85°	0	11	21	38	59	86	113	129	139	155	166
-87.5°	0	5	11	21	32	43	54	64	70	75	86
-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°	91	96	102	102	102	96	91	86	96	107	118
85°	177	193	198	209	204	193	188	177	198	220	247
82.5°	263	279	289	300	300	289	279	263	295	327	364
80°	343	364	386	402	402	386	370	348	386	434	482
77.5°	439	466	488	509	504	498	488	477	514	563	611
75°	536	573	589	611	622	616	616	627	670	729	782
72.5°	622	648	681	718	734	745	772	804	847	895	938
70°	691	723	766	804	836	868	906	948	991	1040	1082
67.5°	756	804	847	895	938	986	1034	1082	1131	1184	1238
65°	825	879	932	986	1045	1104	1163	1216	1275	1345	1404
62.5°	895	954	1018	1082	1152	1222	1291	1361	1441	1516	1591
60°	959	1034	1109	1190	1270	1350	1425	1516	1613	1699	1795
57.5°	1023	1115	1200	1291	1382	1474	1581	1682	1795	1908	2015
55°	1093	1200	1297	1399	1500	1618	1736	1865	1988	2133	2267
52.5°	1168	1281	1393	1506	1634	1763	1902	2052	2213	2379	2545
50°	1243	1366	1490	1624	1768	1918	2084	2261	2454	2647	2851
47.5°	1313	1447	1597	1741	1908	2084	2277	2492	2706	2947	3204
45°	1388	1532	1693	1870	2052	2261	2492	2727	3001	3274	3574
42.5°	1463	1618	1800	1988	2213	2449	2701	3001	3306	3644	4008
40°	1527	1704	1908	2133	2374	2636	2947	3274	3649	4051	4501
37.5°	1602	1795	2015	2261	2540	2845	3204	3585	4019	4506	5047
35°	1672	1886	2127	2395	2706	3060	3461	3906	4410	4999	5658
32.5°	1741	1977	2234	2529	2872	3274	3729	4254	4849	5524	6349
30°	1811	2058	2336	2658	3043	3499	4024	4608	5294	6146	7126
27.5°	1875	2143	2443	2797	3210	3708	4303	4999	5808	6767	7914
25°	1940	2218	2545	2926	3386	3933	4581	5347	6317	7453	8814
22.5°	1999	2293	2636	3049	3547	4153	4881	5755	6821	8085	9687
20°	2058	2368	2733	3167	3686	4351	5155	6130	7341	8830	10609
17.5°	2106	2438	2824	3290	3858	4554	5406	6505	7812	9516	11498
15°	2154	2497	2904	3397	4008	4758	5680	6832	8310	10164	12270
12.5°	2191	2545	2974	3494	4136	4929	5915	7164	8793	10775	12940
10°	2218	2588	3027	3569	4244	5069	6108	7432	9184	11273	13497
7.5°	2245	2620	3070	3627	4324	5176	6258	7641	9484	11659	13926
5°	2267	2647	3102	3670	4378	5256	6371	7775	9698	11932	14231
2.5°	2283	2668	3129	3708	4420	5342	6473	7919	9902	12163	14504
0°	2283	2674	3129	3708	4415	5358	6489	7930	9929	12158	14542
-2.5°	2283	2668	3129	3708	4420	5342	6473	7919	9902	12163	14504
-5°	2267	2647	3102	3670	4378	5256	6371	7775	9698	11932	14231
-7.5°	2245	2620	3070	3627	4324	5176	6258	7641	9484	11659	13926
-10°	2218	2588	3027	3569	4244	5069	6108	7432	9184	11273	13497
-12.5°	2191	2545	2974	3494	4136	4929	5915	7164	8793	10775	12940
-15°	2154	2497	2904	3397	4008	4758	5680	6832	8310	10164	12270
-17.5°	2106	2438	2824	3290	3858	4554	5406	6505	7812	9516	11498
-20°	2058	2368	2733	3167	3686	4351	5155	6130	7341	8830	10609



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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°	1999	2293	2636	3049	3547	4153	4881	5755	6821	8085	9687
-25°	1940	2218	2545	2926	3386	3933	4581	5347	6317	7453	8814
-27.5°	1875	2143	2443	2797	3210	3708	4303	4999	5808	6767	7914
-30°	1811	2058	2336	2658	3043	3499	4024	4608	5294	6146	7126
-32.5°	1741	1977	2234	2529	2872	3274	3729	4254	4849	5524	6349
-35°	1672	1886	2127	2395	2706	3060	3461	3906	4410	4999	5658
-37.5°	1602	1795	2015	2261	2540	2845	3204	3585	4019	4506	5047
-40°	1527	1704	1908	2133	2374	2636	2947	3274	3649	4051	4501
-42.5°	1463	1618	1800	1988	2213	2449	2701	3001	3306	3644	4008
-45°	1388	1532	1693	1870	2052	2261	2492	2727	3001	3274	3574
-47.5°	1313	1447	1597	1741	1908	2084	2277	2492	2706	2947	3204
-50°	1243	1366	1490	1624	1768	1918	2084	2261	2454	2647	2851
-52.5°	1168	1281	1393	1506	1634	1763	1902	2052	2213	2379	2545
-55°	1093	1200	1297	1399	1500	1618	1736	1865	1988	2133	2267
-57.5°	1023	1115	1200	1291	1382	1474	1581	1682	1795	1908	2015
-60°	959	1034	1109	1190	1270	1350	1425	1516	1613	1699	1795
-62.5°	895	954	1018	1082	1152	1222	1291	1361	1441	1516	1591
-65°	825	879	932	986	1045	1104	1163	1216	1275	1345	1404
-67.5°	756	804	847	895	938	986	1034	1082	1131	1184	1238
-70°	691	723	766	804	836	868	906	948	991	1040	1082
-72.5°	622	648	681	718	734	745	772	804	847	895	938
-75°	536	573	589	611	622	616	616	627	670	729	782
-77.5°	439	466	488	509	504	498	488	477	514	563	611
-80°	343	364	386	402	402	386	370	348	386	434	482
-82.5°	263	279	289	300	300	289	279	263	295	327	364
-85°	177	193	198	209	204	193	188	177	198	220	247
-87.5°	91	96	102	102	102	96	91	86	96	107	118
-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°	134	134	134	134	129	134	134	139	145	129	113
85°	268	273	273	273	273	273	273	273	273	247	220
82.5°	402	418	429	445	455	455	450	445	434	391	343
80°	530	557	573	589	606	600	595	584	579	525	472
77.5°	659	691	713	729	745	750	745	745	739	691	632
75°	825	852	873	895	916	927	932	932	932	889	836
72.5°	975	1007	1040	1072	1098	1115	1131	1141	1152	1131	1098
70°	1131	1168	1206	1243	1281	1307	1329	1350	1361	1366	1366
67.5°	1291	1340	1388	1436	1479	1516	1543	1570	1591	1613	1624
65°	1468	1532	1591	1645	1693	1741	1779	1816	1849	1875	1891
62.5°	1666	1741	1811	1881	1934	1993	2052	2106	2149	2186	2213
60°	1886	1977	2063	2149	2234	2304	2379	2443	2497	2545	2588
57.5°	2133	2245	2352	2465	2561	2652	2743	2834	2915	2979	3033
55°	2406	2545	2684	2818	2952	3076	3193	3311	3418	3504	3579
52.5°	2722	2888	3065	3231	3413	3574	3724	3885	4029	4158	4265
50°	3060	3274	3504	3719	3954	4179	4383	4587	4790	4967	5112
47.5°	3456	3713	4013	4308	4597	4903	5187	5455	5733	5969	6167
45°	3885	4244	4597	4994	5358	5771	6162	6553	6896	7239	7528
42.5°	4394	4844	5294	5803	6301	6821	7373	7866	8380	8884	9302
40°	4999	5530	6151	6762	7453	8107	8889	9580	10234	10872	11413
37.5°	5664	6365	7132	7909	8846	9768	10684	11552	12329	13042	13610
35°	6430	7314	8225	9355	10470	11595	12645	13631	14515	15238	15838
32.5°	7308	8353	9612	10925	12216	13465	14719	15694	16615	17441	18148
30°	8241	9602	11070	12538	13947	15303	16567	17741	18812	19739	20532
27.5°	9334	10909	12543	14119	15630	17092	18528	19868	21041	22016	23002
25°	10416	12222	13969	15635	17269	18903	20484	21990	23361	24556	25622
22.5°	11557	13443	15287	17055	18909	20688	22418	24133	25708	27085	28285
20°	12613	14638	16519	18491	20500	22429	24374	26228	27985	29646	31013
17.5°	13556	15619	17671	19750	21941	24127	26239	28248	30252	32186	33890
15°	14397	16562	18668	20934	23297	25649	28001	30214	32470	34613	36521
12.5°	15142	17376	19616	22027	24497	26946	29523	32095	34597	36906	38975
10°	15758	18078	20479	22975	25542	28130	30905	33761	36440	38894	41145
7.5°	16224	18609	21116	23710	26415	29185	32084	34994	37828	40464	42822
5°	16556	18962	21539	24186	27005	29898	32990	36092	38985	41713	44124
2.5°	16857	19278	21904	24449	27321	30321	33418	36633	39591	42393	45077
0°	16937	19407	22059	24674	27466	30477	33633	36772	39805	42849	45372
-2.5°	16857	19278	21904	24449	27321	30321	33418	36633	39591	42393	45077
-5°	16556	18962	21539	24186	27005	29898	32990	36092	38985	41713	44124
-7.5°	16224	18609	21116	23710	26415	29185	32084	34994	37828	40464	42822
-10°	15758	18078	20479	22975	25542	28130	30905	33761	36440	38894	41145
-12.5°	15142	17376	19616	22027	24497	26946	29523	32095	34597	36906	38975
-15°	14397	16562	18668	20934	23297	25649	28001	30214	32470	34613	36521
-17.5°	13556	15619	17671	19750	21941	24127	26239	28248	30252	32186	33890
-20°	12613	14638	16519	18491	20500	22429	24374	26228	27985	29646	31013



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 CATALOG NUMBER: EPH-VN-08-E-950-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11557	13443	15287	17055	18909	20688	22418	24133	25708	27085	28285
-25°	10416	12222	13969	15635	17269	18903	20484	21990	23361	24556	25622
-27.5°	9334	10909	12543	14119	15630	17092	18528	19868	21041	22016	23002
-30°	8241	9602	11070	12538	13947	15303	16567	17741	18812	19739	20532
-32.5°	7308	8353	9612	10925	12216	13465	14719	15694	16615	17441	18148
-35°	6430	7314	8225	9355	10470	11595	12645	13631	14515	15238	15838
-37.5°	5664	6365	7132	7909	8846	9768	10684	11552	12329	13042	13610
-40°	4999	5530	6151	6762	7453	8107	8889	9580	10234	10872	11413
-42.5°	4394	4844	5294	5803	6301	6821	7373	7866	8380	8884	9302
-45°	3885	4244	4597	4994	5358	5771	6162	6553	6896	7239	7528
-47.5°	3456	3713	4013	4308	4597	4903	5187	5455	5733	5969	6167
-50°	3060	3274	3504	3719	3954	4179	4383	4587	4790	4967	5112
-52.5°	2722	2888	3065	3231	3413	3574	3724	3885	4029	4158	4265
-55°	2406	2545	2684	2818	2952	3076	3193	3311	3418	3504	3579
-57.5°	2133	2245	2352	2465	2561	2652	2743	2834	2915	2979	3033
-60°	1886	1977	2063	2149	2234	2304	2379	2443	2497	2545	2588
-62.5°	1666	1741	1811	1881	1934	1993	2052	2106	2149	2186	2213
-65°	1468	1532	1591	1645	1693	1741	1779	1816	1849	1875	1891
-67.5°	1291	1340	1388	1436	1479	1516	1543	1570	1591	1613	1624
-70°	1131	1168	1206	1243	1281	1307	1329	1350	1361	1366	1366
-72.5°	975	1007	1040	1072	1098	1115	1131	1141	1152	1131	1098
-75°	825	852	873	895	916	927	932	932	932	889	836
-77.5°	659	691	713	729	745	750	745	745	739	691	632
-80°	530	557	573	589	606	600	595	584	579	525	472
-82.5°	402	418	429	445	455	455	450	445	434	391	343
-85°	268	273	273	273	273	273	273	273	273	247	220
-87.5°	134	134	134	134	129	134	134	139	145	129	113
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622370
 CATALOG NUMBER: EPH-VN-08-E-950-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°	91	75	70	59	70	75	91	113	129	145	139
85°	188	155	150	139	150	155	188	220	247	273	273
82.5°	300	247	236	225	236	247	300	343	391	434	445
80°	423	359	348	338	348	359	423	472	525	579	584
77.5°	573	514	493	477	493	514	573	632	691	739	745
75°	777	718	702	686	702	718	777	836	889	932	932
72.5°	1061	1034	991	954	991	1034	1061	1098	1131	1152	1141
70°	1372	1382	1372	1356	1372	1382	1372	1366	1366	1361	1350
67.5°	1629	1640	1640	1645	1640	1640	1629	1624	1613	1591	1570
65°	1908	1913	1929	1934	1929	1913	1908	1891	1875	1849	1816
62.5°	2229	2245	2256	2256	2256	2245	2229	2213	2186	2149	2106
60°	2615	2636	2663	2668	2663	2636	2615	2588	2545	2497	2443
57.5°	3076	3102	3140	3151	3140	3102	3076	3033	2979	2915	2834
55°	3633	3670	3692	3681	3692	3670	3633	3579	3504	3418	3311
52.5°	4356	4420	4463	4442	4463	4420	4356	4265	4158	4029	3885
50°	5230	5310	5363	5347	5363	5310	5230	5112	4967	4790	4587
47.5°	6323	6435	6526	6532	6526	6435	6323	6167	5969	5733	5455
45°	7759	7925	8048	8026	8048	7925	7759	7528	7239	6896	6553
42.5°	9623	9854	10036	10020	10036	9854	9623	9302	8884	8380	7866
40°	11815	12099	12340	12404	12340	12099	11815	11413	10872	10234	9580
37.5°	14070	14435	14740	14708	14740	14435	14070	13610	13042	12329	11552
35°	16337	16717	17017	17044	17017	16717	16337	15838	15238	14515	13631
32.5°	18710	19134	19487	19536	19487	19134	18710	18148	17441	16615	15694
30°	21186	21695	22118	22204	22118	21695	21186	20532	19739	18812	17741
27.5°	23790	24395	24797	24953	24797	24395	23790	23002	22016	21041	19868
25°	26474	27133	27583	27835	27583	27133	26474	25622	24556	23361	21990
22.5°	29277	30059	30643	30921	30643	30059	29277	28285	27085	25708	24133
20°	32170	33022	33702	33992	33702	33022	32170	31013	29646	27985	26228
17.5°	35117	36156	36912	37281	36912	36156	35117	33890	32186	30252	28248
15°	37978	39082	39902	40298	39902	39082	37978	36521	34613	32470	30214
12.5°	40630	41798	42618	43191	42618	41798	40630	38975	36906	34597	32095
10°	42999	44274	45104	45699	45104	44274	42999	41145	38894	36440	33761
7.5°	44772	46385	47323	47907	47323	46385	44772	42822	40464	37828	34994
5°	46133	47912	48764	49316	48764	47912	46133	44124	41713	38985	36092
2.5°	47130	48533	49600	50152	49600	48533	47130	45077	42393	39591	36633
0°	47521	49171	49927	50286	49927	49171	47521	45372	42849	39805	36772
-2.5°	47130	48533	49600	50152	49600	48533	47130	45077	42393	39591	36633
-5°	46133	47912	48764	49316	48764	47912	46133	44124	41713	38985	36092
-7.5°	44772	46385	47323	47907	47323	46385	44772	42822	40464	37828	34994
-10°	42999	44274	45104	45699	45104	44274	42999	41145	38894	36440	33761
-12.5°	40630	41798	42618	43191	42618	41798	40630	38975	36906	34597	32095
-15°	37978	39082	39902	40298	39902	39082	37978	36521	34613	32470	30214
-17.5°	35117	36156	36912	37281	36912	36156	35117	33890	32186	30252	28248
-20°	32170	33022	33702	33992	33702	33022	32170	31013	29646	27985	26228



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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°	29277	30059	30643	30921	30643	30059	29277	28285	27085	25708	24133
-25°	26474	27133	27583	27835	27583	27133	26474	25622	24556	23361	21990
-27.5°	23790	24395	24797	24953	24797	24395	23790	23002	22016	21041	19868
-30°	21186	21695	22118	22204	22118	21695	21186	20532	19739	18812	17741
-32.5°	18710	19134	19487	19536	19487	19134	18710	18148	17441	16615	15694
-35°	16337	16717	17017	17044	17017	16717	16337	15838	15238	14515	13631
-37.5°	14070	14435	14740	14708	14740	14435	14070	13610	13042	12329	11552
-40°	11815	12099	12340	12404	12340	12099	11815	11413	10872	10234	9580
-42.5°	9623	9854	10036	10020	10036	9854	9623	9302	8884	8380	7866
-45°	7759	7925	8048	8026	8048	7925	7759	7528	7239	6896	6553
-47.5°	6323	6435	6526	6532	6526	6435	6323	6167	5969	5733	5455
-50°	5230	5310	5363	5347	5363	5310	5230	5112	4967	4790	4587
-52.5°	4356	4420	4463	4442	4463	4420	4356	4265	4158	4029	3885
-55°	3633	3670	3692	3681	3692	3670	3633	3579	3504	3418	3311
-57.5°	3076	3102	3140	3151	3140	3102	3076	3033	2979	2915	2834
-60°	2615	2636	2663	2668	2663	2636	2615	2588	2545	2497	2443
-62.5°	2229	2245	2256	2256	2256	2245	2229	2213	2186	2149	2106
-65°	1908	1913	1929	1934	1929	1913	1908	1891	1875	1849	1816
-67.5°	1629	1640	1640	1645	1640	1640	1629	1624	1613	1591	1570
-70°	1372	1382	1372	1356	1372	1382	1372	1366	1366	1361	1350
-72.5°	1061	1034	991	954	991	1034	1061	1098	1131	1152	1141
-75°	777	718	702	686	702	718	777	836	889	932	932
-77.5°	573	514	493	477	493	514	573	632	691	739	745
-80°	423	359	348	338	348	359	423	472	525	579	584
-82.5°	300	247	236	225	236	247	300	343	391	434	445
-85°	188	155	150	139	150	155	188	220	247	273	273
-87.5°	91	75	70	59	70	75	91	113	129	145	139
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: EPH-VN-08-E-950-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°	134	134	129	134	134	134	134	118	107	96	86
85°	273	273	273	273	273	273	268	247	220	198	177
82.5°	450	455	455	445	429	418	402	364	327	295	263
80°	595	600	606	589	573	557	530	482	434	386	348
77.5°	745	750	745	729	713	691	659	611	563	514	477
75°	932	927	916	895	873	852	825	782	729	670	627
72.5°	1131	1115	1098	1072	1040	1007	975	938	895	847	804
70°	1329	1307	1281	1243	1206	1168	1131	1082	1040	991	948
67.5°	1543	1516	1479	1436	1388	1340	1291	1238	1184	1131	1082
65°	1779	1741	1693	1645	1591	1532	1468	1404	1345	1275	1216
62.5°	2052	1993	1934	1881	1811	1741	1666	1591	1516	1441	1361
60°	2379	2304	2234	2149	2063	1977	1886	1795	1699	1613	1516
57.5°	2743	2652	2561	2465	2352	2245	2133	2015	1908	1795	1682
55°	3193	3076	2952	2818	2684	2545	2406	2267	2133	1988	1865
52.5°	3724	3574	3413	3231	3065	2888	2722	2545	2379	2213	2052
50°	4383	4179	3954	3719	3504	3274	3060	2851	2647	2454	2261
47.5°	5187	4903	4597	4308	4013	3713	3456	3204	2947	2706	2492
45°	6162	5771	5358	4994	4597	4244	3885	3574	3274	3001	2727
42.5°	7373	6821	6301	5803	5294	4844	4394	4008	3644	3306	3001
40°	8889	8107	7453	6762	6151	5530	4999	4501	4051	3649	3274
37.5°	10684	9768	8846	7909	7132	6365	5664	5047	4506	4019	3585
35°	12645	11595	10470	9355	8225	7314	6430	5658	4999	4410	3906
32.5°	14719	13465	12216	10925	9612	8353	7308	6349	5524	4849	4254
30°	16567	15303	13947	12538	11070	9602	8241	7126	6146	5294	4608
27.5°	18528	17092	15630	14119	12543	10909	9334	7914	6767	5808	4999
25°	20484	18903	17269	15635	13969	12222	10416	8814	7453	6317	5347
22.5°	22418	20688	18909	17055	15287	13443	11557	9687	8085	6821	5755
20°	24374	22429	20500	18491	16519	14638	12613	10609	8830	7341	6130
17.5°	26239	24127	21941	19750	17671	15619	13556	11498	9516	7812	6505
15°	28001	25649	23297	20934	18668	16562	14397	12270	10164	8310	6832
12.5°	29523	26946	24497	22027	19616	17376	15142	12940	10775	8793	7164
10°	30905	28130	25542	22975	20479	18078	15758	13497	11273	9184	7432
7.5°	32084	29185	26415	23710	21116	18609	16224	13926	11659	9484	7641
5°	32990	29898	27005	24186	21539	18962	16556	14231	11932	9698	7775
2.5°	33418	30321	27321	24449	21904	19278	16857	14504	12163	9902	7919
0°	33633	30477	27466	24674	22059	19407	16937	14542	12158	9929	7930
-2.5°	33418	30321	27321	24449	21904	19278	16857	14504	12163	9902	7919
-5°	32990	29898	27005	24186	21539	18962	16556	14231	11932	9698	7775
-7.5°	32084	29185	26415	23710	21116	18609	16224	13926	11659	9484	7641
-10°	30905	28130	25542	22975	20479	18078	15758	13497	11273	9184	7432
-12.5°	29523	26946	24497	22027	19616	17376	15142	12940	10775	8793	7164
-15°	28001	25649	23297	20934	18668	16562	14397	12270	10164	8310	6832
-17.5°	26239	24127	21941	19750	17671	15619	13556	11498	9516	7812	6505
-20°	24374	22429	20500	18491	16519	14638	12613	10609	8830	7341	6130



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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°	22418	20688	18909	17055	15287	13443	11557	9687	8085	6821	5755
-25°	20484	18903	17269	15635	13969	12222	10416	8814	7453	6317	5347
-27.5°	18528	17092	15630	14119	12543	10909	9334	7914	6767	5808	4999
-30°	16567	15303	13947	12538	11070	9602	8241	7126	6146	5294	4608
-32.5°	14719	13465	12216	10925	9612	8353	7308	6349	5524	4849	4254
-35°	12645	11595	10470	9355	8225	7314	6430	5658	4999	4410	3906
-37.5°	10684	9768	8846	7909	7132	6365	5664	5047	4506	4019	3585
-40°	8889	8107	7453	6762	6151	5530	4999	4501	4051	3649	3274
-42.5°	7373	6821	6301	5803	5294	4844	4394	4008	3644	3306	3001
-45°	6162	5771	5358	4994	4597	4244	3885	3574	3274	3001	2727
-47.5°	5187	4903	4597	4308	4013	3713	3456	3204	2947	2706	2492
-50°	4383	4179	3954	3719	3504	3274	3060	2851	2647	2454	2261
-52.5°	3724	3574	3413	3231	3065	2888	2722	2545	2379	2213	2052
-55°	3193	3076	2952	2818	2684	2545	2406	2267	2133	1988	1865
-57.5°	2743	2652	2561	2465	2352	2245	2133	2015	1908	1795	1682
-60°	2379	2304	2234	2149	2063	1977	1886	1795	1699	1613	1516
-62.5°	2052	1993	1934	1881	1811	1741	1666	1591	1516	1441	1361
-65°	1779	1741	1693	1645	1591	1532	1468	1404	1345	1275	1216
-67.5°	1543	1516	1479	1436	1388	1340	1291	1238	1184	1131	1082
-70°	1329	1307	1281	1243	1206	1168	1131	1082	1040	991	948
-72.5°	1131	1115	1098	1072	1040	1007	975	938	895	847	804
-75°	932	927	916	895	873	852	825	782	729	670	627
-77.5°	745	750	745	729	713	691	659	611	563	514	477
-80°	595	600	606	589	573	557	530	482	434	386	348
-82.5°	450	455	455	445	429	418	402	364	327	295	263
-85°	273	273	273	273	273	273	268	247	220	198	177
-87.5°	134	134	129	134	134	134	134	118	107	96	86
-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°	91	96	102	102	102	96	91	86	75	70	64
85°	188	193	204	209	198	193	177	166	155	139	129
82.5°	279	289	300	300	289	279	263	247	230	209	188
80°	370	386	402	402	386	364	343	322	300	273	247
77.5°	488	498	504	509	488	466	439	402	370	338	305
75°	616	616	622	611	589	573	536	493	445	402	359
72.5°	772	745	734	718	681	648	622	584	520	461	413
70°	906	868	836	804	766	723	691	643	589	520	461
67.5°	1034	986	938	895	847	804	756	697	638	573	509
65°	1163	1104	1045	986	932	879	825	756	686	622	552
62.5°	1291	1222	1152	1082	1018	954	895	814	734	664	589
60°	1425	1350	1270	1190	1109	1034	959	873	788	702	627
57.5°	1581	1474	1382	1291	1200	1115	1023	932	841	750	659
55°	1736	1618	1500	1399	1297	1200	1093	991	889	793	691
52.5°	1902	1763	1634	1506	1393	1281	1168	1061	943	836	713
50°	2084	1918	1768	1624	1490	1366	1243	1120	997	879	739
47.5°	2277	2084	1908	1741	1597	1447	1313	1184	1050	927	766
45°	2492	2261	2052	1870	1693	1532	1388	1243	1104	959	782
42.5°	2701	2449	2213	1988	1800	1618	1463	1307	1157	986	809
40°	2947	2636	2374	2133	1908	1704	1527	1366	1211	1018	831
37.5°	3204	2845	2540	2261	2015	1795	1602	1420	1248	1050	852
35°	3461	3060	2706	2395	2127	1886	1672	1479	1286	1077	873
32.5°	3729	3274	2872	2529	2234	1977	1741	1532	1329	1109	889
30°	4024	3499	3043	2658	2336	2058	1811	1586	1372	1136	906
27.5°	4303	3708	3210	2797	2443	2143	1875	1640	1420	1163	927
25°	4581	3933	3386	2926	2545	2218	1940	1688	1463	1195	943
22.5°	4881	4153	3547	3049	2636	2293	1999	1741	1500	1227	959
20°	5155	4351	3686	3167	2733	2368	2058	1784	1532	1259	975
17.5°	5406	4554	3858	3290	2824	2438	2106	1822	1565	1286	986
15°	5680	4758	4008	3397	2904	2497	2154	1859	1591	1313	991
12.5°	5915	4929	4136	3494	2974	2545	2191	1886	1618	1340	1002
10°	6108	5069	4244	3569	3027	2588	2218	1913	1634	1356	1007
7.5°	6258	5176	4324	3627	3070	2620	2245	1929	1650	1372	1007
5°	6371	5256	4378	3670	3102	2647	2267	1945	1666	1393	1013
2.5°	6473	5342	4420	3708	3129	2668	2283	1956	1666	1388	1002
0°	6489	5358	4415	3708	3129	2674	2283	1956	1661	1382	991
-2.5°	6473	5342	4420	3708	3129	2668	2283	1956	1666	1388	1002
-5°	6371	5256	4378	3670	3102	2647	2267	1945	1666	1393	1013
-7.5°	6258	5176	4324	3627	3070	2620	2245	1929	1650	1372	1007
-10°	6108	5069	4244	3569	3027	2588	2218	1913	1634	1356	1007
-12.5°	5915	4929	4136	3494	2974	2545	2191	1886	1618	1340	1002
-15°	5680	4758	4008	3397	2904	2497	2154	1859	1591	1313	991
-17.5°	5406	4554	3858	3290	2824	2438	2106	1822	1565	1286	986
-20°	5155	4351	3686	3167	2733	2368	2058	1784	1532	1259	975



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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°	4881	4153	3547	3049	2636	2293	1999	1741	1500	1227	959
-25°	4581	3933	3386	2926	2545	2218	1940	1688	1463	1195	943
-27.5°	4303	3708	3210	2797	2443	2143	1875	1640	1420	1163	927
-30°	4024	3499	3043	2658	2336	2058	1811	1586	1372	1136	906
-32.5°	3729	3274	2872	2529	2234	1977	1741	1532	1329	1109	889
-35°	3461	3060	2706	2395	2127	1886	1672	1479	1286	1077	873
-37.5°	3204	2845	2540	2261	2015	1795	1602	1420	1248	1050	852
-40°	2947	2636	2374	2133	1908	1704	1527	1366	1211	1018	831
-42.5°	2701	2449	2213	1988	1800	1618	1463	1307	1157	986	809
-45°	2492	2261	2052	1870	1693	1532	1388	1243	1104	959	782
-47.5°	2277	2084	1908	1741	1597	1447	1313	1184	1050	927	766
-50°	2084	1918	1768	1624	1490	1366	1243	1120	997	879	739
-52.5°	1902	1763	1634	1506	1393	1281	1168	1061	943	836	713
-55°	1736	1618	1500	1399	1297	1200	1093	991	889	793	691
-57.5°	1581	1474	1382	1291	1200	1115	1023	932	841	750	659
-60°	1425	1350	1270	1190	1109	1034	959	873	788	702	627
-62.5°	1291	1222	1152	1082	1018	954	895	814	734	664	589
-65°	1163	1104	1045	986	932	879	825	756	686	622	552
-67.5°	1034	986	938	895	847	804	756	697	638	573	509
-70°	906	868	836	804	766	723	691	643	589	520	461
-72.5°	772	745	734	718	681	648	622	584	520	461	413
-75°	616	616	622	611	589	573	536	493	445	402	359
-77.5°	488	498	504	509	488	466	439	402	370	338	305
-80°	370	386	402	402	386	364	343	322	300	273	247
-82.5°	279	289	300	300	289	279	263	247	230	209	188
-85°	188	193	204	209	198	193	177	166	155	139	129
-87.5°	91	96	102	102	102	96	91	86	75	70	64
-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°	54	43	32	21	11	5	0
85°	113	86	59	38	21	11	0
82.5°	166	123	91	59	38	16	0
80°	220	166	118	80	48	21	0
77.5°	268	204	150	96	59	27	0
75°	311	236	177	118	70	32	0
72.5°	354	268	198	134	80	38	0
70°	397	300	220	155	91	43	0
67.5°	429	327	241	166	102	48	0
65°	455	354	257	177	113	48	0
62.5°	482	375	273	188	123	54	0
60°	514	397	295	198	129	59	0
57.5°	536	413	305	209	134	64	0
55°	557	434	316	220	145	70	0
52.5°	579	450	332	225	150	70	0
50°	595	466	343	230	155	75	0
47.5°	616	477	348	236	161	80	0
45°	632	493	359	241	166	80	0
42.5°	648	504	364	247	166	86	0
40°	664	509	375	257	172	91	0
37.5°	675	520	380	263	177	91	0
35°	681	525	386	268	182	96	0
32.5°	691	536	391	279	182	96	0
30°	707	536	391	284	188	96	0
27.5°	718	541	402	284	188	102	0
25°	723	541	407	289	193	102	0
22.5°	729	547	413	295	193	102	0
20°	734	552	418	300	198	107	0
17.5°	739	563	423	300	198	107	0
15°	750	568	423	300	198	113	0
12.5°	756	568	423	305	198	113	0
10°	761	573	423	305	204	107	0
7.5°	761	573	429	305	204	107	0
5°	761	579	423	305	198	107	0
2.5°	750	579	423	300	198	107	0
0°	745	573	418	300	198	107	0
-2.5°	750	579	423	300	198	107	0
-5°	761	579	423	305	198	107	0
-7.5°	761	573	429	305	204	107	0
-10°	761	573	423	305	204	107	0
-12.5°	756	568	423	305	198	113	0
-15°	750	568	423	300	198	113	0
-17.5°	739	563	423	300	198	107	0
-20°	734	552	418	300	198	107	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	729	547	413	295	193	102	0
-25°	723	541	407	289	193	102	0
-27.5°	718	541	402	284	188	102	0
-30°	707	536	391	284	188	96	0
-32.5°	691	536	391	279	182	96	0
-35°	681	525	386	268	182	96	0
-37.5°	675	520	380	263	177	91	0
-40°	664	509	375	257	172	91	0
-42.5°	648	504	364	247	166	86	0
-45°	632	493	359	241	166	80	0
-47.5°	616	477	348	236	161	80	0
-50°	595	466	343	230	155	75	0
-52.5°	579	450	332	225	150	70	0
-55°	557	434	316	220	145	70	0
-57.5°	536	413	305	209	134	64	0
-60°	514	397	295	198	129	59	0
-62.5°	482	375	273	188	123	54	0
-65°	455	354	257	177	113	48	0
-67.5°	429	327	241	166	102	48	0
-70°	397	300	220	155	91	43	0
-72.5°	354	268	198	134	80	38	0
-75°	311	236	177	118	70	32	0
-77.5°	268	204	150	96	59	27	0
-80°	220	166	118	80	48	21	0
-82.5°	166	123	91	59	38	16	0
-85°	113	86	59	38	21	11	0
-87.5°	54	43	32	21	11	5	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)