

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: P621376

Luminaire Tested: **EPH-VN-06-E-730-U-66**

Issue Date: 09/19/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P621376  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 09/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-730-U-66  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 6 distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

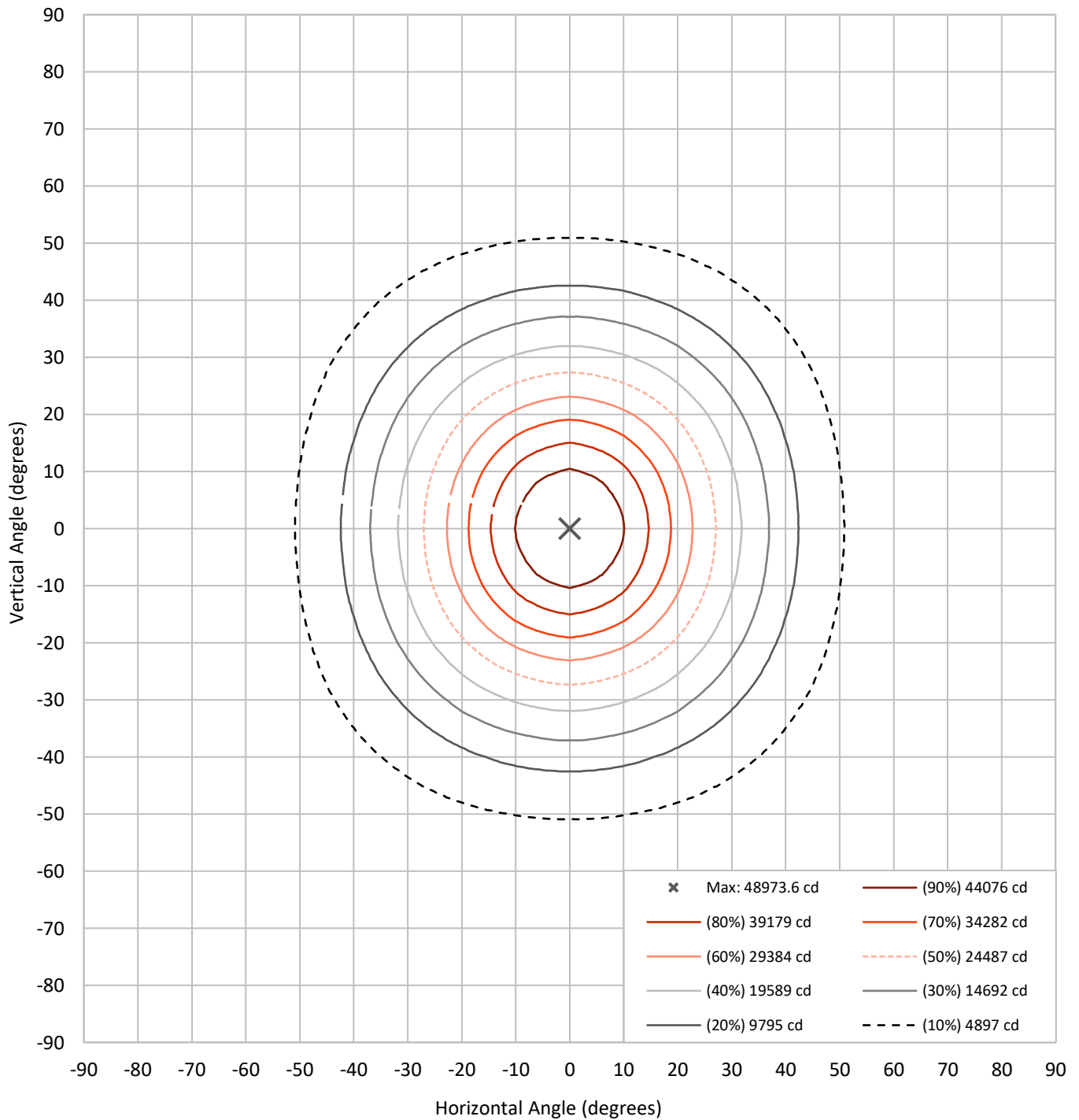
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	50793.7 lumens	Max Intensity:	48973.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	109.4 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	24421.7 lumens	Field Lumens:	44576.4 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%

Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Candela Plot





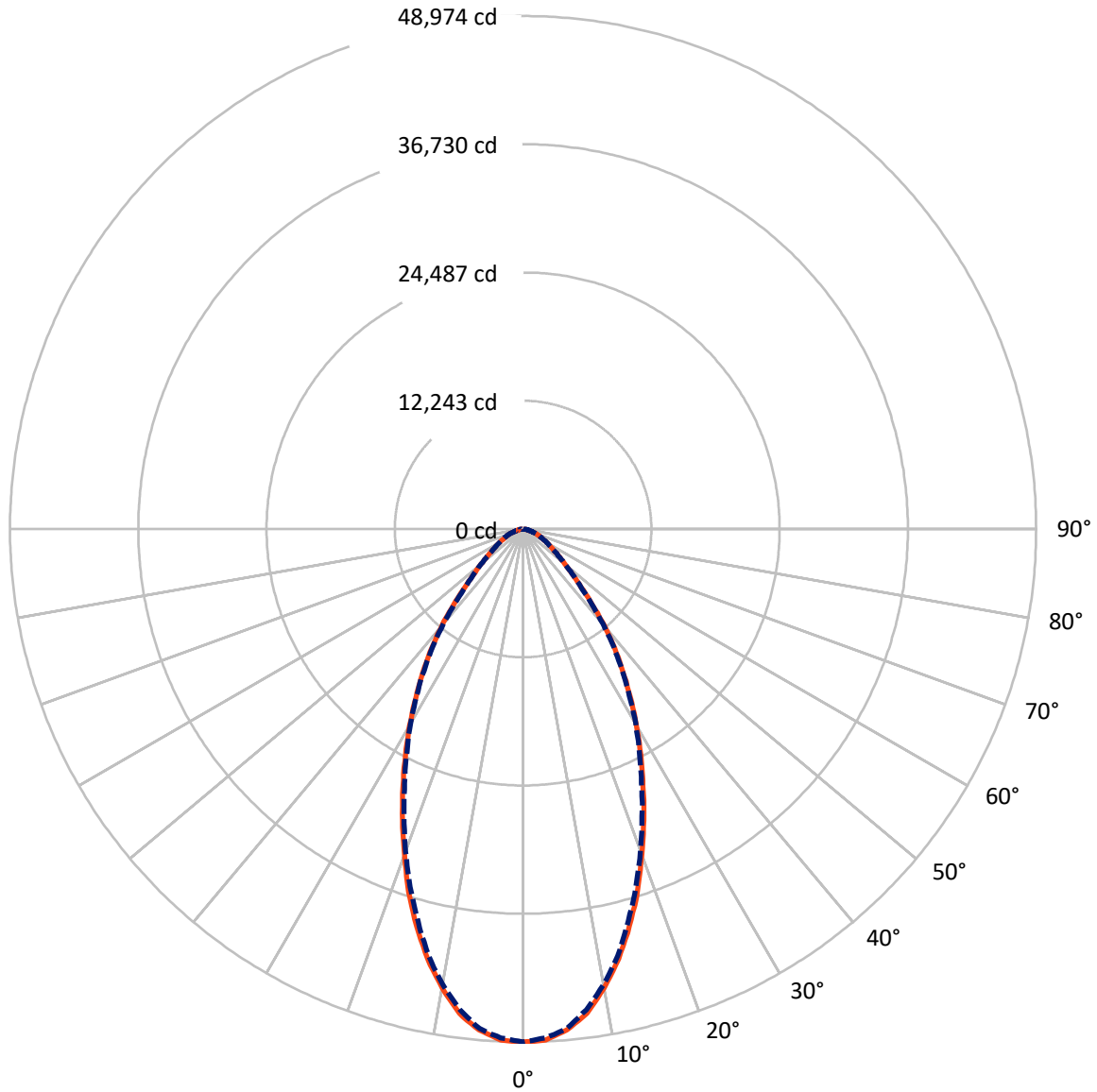
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### Lumen Table

90																
80	3.6	21.8		43.9		66.8		57.3		66.8		43.9		21.8		3.6
70																
60	9.0	9.5	16.9	25.8	36.0	46.0	53.7	57.5	57.5	53.7	46.0	36.0	25.8	16.9	9.5	9.0
50		12.6	24.0	39.5	59.2	80.6	99.9	111.5	111.5	99.9	80.6	59.2	39.5	24.0	12.6	
40	12.0	15.8	32.2	58.1	96.5	148.0	203.7	241.6	241.6	203.7	148.0	96.5	58.1	32.2	15.8	12.0
30		18.8	41.6	83.7	160.6	284.0	413.0	493.3	493.3	413.0	284.0	160.6	83.7	41.6	18.8	
20	13.9	21.6	51.2	116.0	257.0	463.8	666.2	799.5	799.5	666.2	463.8	257.0	116.0	51.2	21.6	13.9
10		23.9	59.7	149.3	350.0	624.5	924.8	1141.8	1141.8	924.8	624.5	350.0	149.3	59.7	23.9	
0	14.5	25.1	64.8	171.2	404.1	724.3	1103.0	1386.3	1386.3	1103.0	724.3	404.1	171.2	64.8	25.1	14.5
-10		25.1	64.8	171.2	404.1	724.3	1103.0	1386.3	1386.3	1103.0	724.3	404.1	171.2	64.8	25.1	
-20	13.9	23.9	59.7	149.3	350.0	624.5	924.8	1141.8	1141.8	924.8	624.5	350.0	149.3	59.7	23.9	13.9
-30		21.6	51.2	116.0	257.0	463.8	666.2	799.5	799.5	666.2	463.8	257.0	116.0	51.2	21.6	
-40	12.0	18.8	41.6	83.7	160.6	284.0	413.0	493.3	493.3	413.0	284.0	160.6	83.7	41.6	18.8	12.0
-50		15.8	32.2	58.1	96.5	148.0	203.7	241.6	241.6	203.7	148.0	96.5	58.1	32.2	15.8	
-60	9.0	12.6	24.0	39.5	59.2	80.6	99.9	111.5	111.5	99.9	80.6	59.2	39.5	24.0	12.6	9.0
-70		9.5	16.9	25.8	36.0	46.0	53.7	57.5	57.5	53.7	46.0	36.0	25.8	16.9	9.5	
-80																
-90	3.6	21.8		43.9		66.8		57.3		66.8		43.9		21.8		3.6

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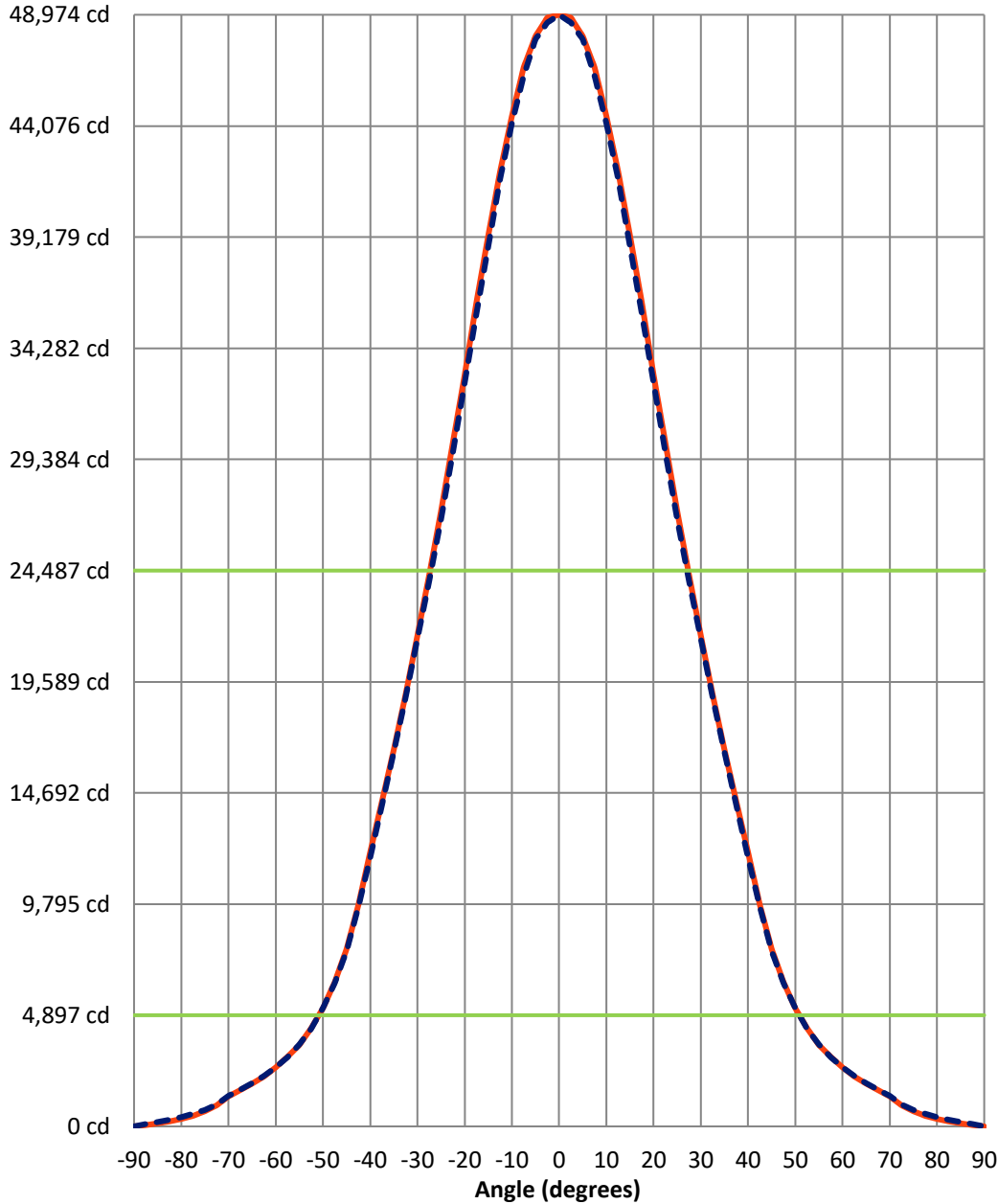
### Luminous Intensity Polar Plot



— 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: 24421.7  
 Efficiency: 48.1%

**Field:**  
 H Angle: 101.7°  
 V Angle: 101.8°  
 Lumens: 44576.4  
 Efficiency: 87.8%

**Spill:**  
 Lumens: 6217.2  
 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	21	31	42	52	63	68	73	84
85°	0	10	21	37	57	84	110	125	136	151	162
82.5°	0	16	37	57	89	120	162	183	204	224	240
80°	0	21	47	78	115	162	214	240	266	292	313
77.5°	0	26	57	94	146	198	261	297	329	360	391
75°	0	31	68	115	172	230	303	350	391	433	480
72.5°	0	37	78	131	193	261	344	402	449	506	569
70°	0	42	89	151	214	292	386	449	506	574	626
67.5°	0	47	99	162	235	318	418	496	558	621	678
65°	0	47	110	172	251	344	444	538	605	668	736
62.5°	0	52	120	183	266	365	470	574	647	715	793
60°	0	57	125	193	287	386	501	611	684	767	851
57.5°	0	63	131	204	297	402	522	642	731	819	908
55°	0	68	141	214	308	423	543	673	772	866	965
52.5°	0	68	146	219	324	438	564	694	814	918	1033
50°	0	73	151	224	334	454	579	720	856	971	1091
47.5°	0	78	157	230	339	464	600	746	903	1023	1153
45°	0	78	162	235	350	480	616	762	934	1075	1211
42.5°	0	84	162	240	355	491	631	788	960	1127	1273
40°	0	89	167	251	365	496	647	809	992	1179	1331
37.5°	0	89	172	256	371	506	658	830	1023	1216	1383
35°	0	94	177	261	376	511	663	851	1049	1252	1440
32.5°	0	94	177	271	381	522	673	866	1080	1294	1492
30°	0	94	183	277	381	522	689	882	1106	1336	1545
27.5°	0	99	183	277	391	527	699	903	1132	1383	1597
25°	0	99	188	282	397	527	705	918	1164	1425	1644
22.5°	0	99	188	287	402	532	710	934	1195	1461	1696
20°	0	104	193	292	407	538	715	950	1226	1492	1738
17.5°	0	104	193	292	412	548	720	960	1252	1524	1774
15°	0	110	193	292	412	553	731	965	1279	1550	1811
12.5°	0	110	193	297	412	553	736	976	1305	1576	1837
10°	0	104	198	297	412	558	741	981	1320	1592	1863
7.5°	0	104	198	297	418	558	741	981	1336	1607	1879
5°	0	104	193	297	412	564	741	986	1357	1623	1894
2.5°	0	104	193	292	412	564	731	976	1352	1623	1905
0°	0	104	193	292	407	558	725	965	1346	1618	1905
-2.5°	0	104	193	292	412	564	731	976	1352	1623	1905
-5°	0	104	193	297	412	564	741	986	1357	1623	1894
-7.5°	0	104	198	297	418	558	741	981	1336	1607	1879
-10°	0	104	198	297	412	558	741	981	1320	1592	1863
-12.5°	0	110	193	297	412	553	736	976	1305	1576	1837
-15°	0	110	193	292	412	553	731	965	1279	1550	1811
-17.5°	0	104	193	292	412	548	720	960	1252	1524	1774
-20°	0	104	193	292	407	538	715	950	1226	1492	1738



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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	99	188	287	402	532	710	934	1195	1461	1696
-25°	0	99	188	282	397	527	705	918	1164	1425	1644
-27.5°	0	99	183	277	391	527	699	903	1132	1383	1597
-30°	0	94	183	277	381	522	689	882	1106	1336	1545
-32.5°	0	94	177	271	381	522	673	866	1080	1294	1492
-35°	0	94	177	261	376	511	663	851	1049	1252	1440
-37.5°	0	89	172	256	371	506	658	830	1023	1216	1383
-40°	0	89	167	251	365	496	647	809	992	1179	1331
-42.5°	0	84	162	240	355	491	631	788	960	1127	1273
-45°	0	78	162	235	350	480	616	762	934	1075	1211
-47.5°	0	78	157	230	339	464	600	746	903	1023	1153
-50°	0	73	151	224	334	454	579	720	856	971	1091
-52.5°	0	68	146	219	324	438	564	694	814	918	1033
-55°	0	68	141	214	308	423	543	673	772	866	965
-57.5°	0	63	131	204	297	402	522	642	731	819	908
-60°	0	57	125	193	287	386	501	611	684	767	851
-62.5°	0	52	120	183	266	365	470	574	647	715	793
-65°	0	47	110	172	251	344	444	538	605	668	736
-67.5°	0	47	99	162	235	318	418	496	558	621	678
-70°	0	42	89	151	214	292	386	449	506	574	626
-72.5°	0	37	78	131	193	261	344	402	449	506	569
-75°	0	31	68	115	172	230	303	350	391	433	480
-77.5°	0	26	57	94	146	198	261	297	329	360	391
-80°	0	21	47	78	115	162	214	240	266	292	313
-82.5°	0	16	37	57	89	120	162	183	204	224	240
-85°	0	10	21	37	57	84	110	125	136	151	162
-87.5°	0	5	10	21	31	42	52	63	68	73	84
-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°	89	94	99	99	99	94	89	84	94	104	115
85°	172	188	193	204	198	188	183	172	193	214	240
82.5°	256	271	282	292	292	282	271	256	287	318	355
80°	334	355	376	391	391	376	360	339	376	423	470
77.5°	428	454	475	496	491	485	475	464	501	548	595
75°	522	558	574	595	605	600	600	611	652	710	762
72.5°	605	631	663	699	715	725	751	783	825	872	913
70°	673	705	746	783	814	845	882	924	965	1012	1054
67.5°	736	783	825	872	913	960	1007	1054	1101	1153	1205
65°	804	856	908	960	1018	1075	1132	1185	1242	1310	1367
62.5°	872	929	992	1054	1122	1190	1258	1325	1404	1477	1550
60°	934	1007	1080	1159	1237	1315	1388	1477	1571	1654	1748
57.5°	997	1085	1169	1258	1346	1435	1539	1639	1748	1858	1962
55°	1065	1169	1263	1362	1461	1576	1691	1816	1936	2077	2207
52.5°	1138	1247	1357	1466	1592	1717	1853	1999	2155	2317	2479
50°	1211	1331	1451	1581	1722	1868	2030	2202	2390	2578	2776
47.5°	1279	1409	1555	1696	1858	2030	2218	2427	2635	2870	3121
45°	1352	1492	1649	1821	1999	2202	2427	2656	2922	3188	3481
42.5°	1425	1576	1753	1936	2155	2385	2630	2922	3220	3548	3903
40°	1487	1659	1858	2077	2312	2567	2870	3188	3554	3945	4383
37.5°	1560	1748	1962	2202	2474	2771	3121	3491	3914	4389	4916
35°	1628	1837	2072	2333	2635	2980	3371	3804	4295	4869	5511
32.5°	1696	1926	2176	2463	2797	3188	3632	4143	4723	5380	6184
30°	1764	2004	2275	2588	2964	3408	3919	4488	5156	5985	6940
27.5°	1826	2087	2380	2724	3126	3611	4190	4869	5657	6591	7707
25°	1889	2160	2479	2849	3298	3830	4462	5208	6152	7259	8584
22.5°	1946	2233	2567	2969	3455	4044	4754	5604	6643	7874	9435
20°	2004	2307	2661	3084	3590	4237	5020	5970	7149	8600	10332
17.5°	2051	2374	2750	3204	3757	4436	5265	6335	7608	9268	11198
15°	2098	2432	2828	3308	3903	4634	5531	6653	8094	9899	11950
12.5°	2134	2479	2896	3402	4029	4801	5761	6977	8563	10494	12602
10°	2160	2520	2948	3475	4133	4937	5949	7238	8944	10979	13145
7.5°	2187	2552	2990	3533	4211	5041	6095	7441	9236	11355	13562
5°	2207	2578	3021	3575	4263	5119	6205	7572	9445	11621	13860
2.5°	2223	2599	3048	3611	4305	5203	6304	7713	9643	11846	14126
0°	2223	2604	3048	3611	4300	5218	6319	7723	9670	11840	14162
-2.5°	2223	2599	3048	3611	4305	5203	6304	7713	9643	11846	14126
-5°	2207	2578	3021	3575	4263	5119	6205	7572	9445	11621	13860
-7.5°	2187	2552	2990	3533	4211	5041	6095	7441	9236	11355	13562
-10°	2160	2520	2948	3475	4133	4937	5949	7238	8944	10979	13145
-12.5°	2134	2479	2896	3402	4029	4801	5761	6977	8563	10494	12602
-15°	2098	2432	2828	3308	3903	4634	5531	6653	8094	9899	11950
-17.5°	2051	2374	2750	3204	3757	4436	5265	6335	7608	9268	11198
-20°	2004	2307	2661	3084	3590	4237	5020	5970	7149	8600	10332



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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°	1946	2233	2567	2969	3455	4044	4754	5604	6643	7874	9435
-25°	1889	2160	2479	2849	3298	3830	4462	5208	6152	7259	8584
-27.5°	1826	2087	2380	2724	3126	3611	4190	4869	5657	6591	7707
-30°	1764	2004	2275	2588	2964	3408	3919	4488	5156	5985	6940
-32.5°	1696	1926	2176	2463	2797	3188	3632	4143	4723	5380	6184
-35°	1628	1837	2072	2333	2635	2980	3371	3804	4295	4869	5511
-37.5°	1560	1748	1962	2202	2474	2771	3121	3491	3914	4389	4916
-40°	1487	1659	1858	2077	2312	2567	2870	3188	3554	3945	4383
-42.5°	1425	1576	1753	1936	2155	2385	2630	2922	3220	3548	3903
-45°	1352	1492	1649	1821	1999	2202	2427	2656	2922	3188	3481
-47.5°	1279	1409	1555	1696	1858	2030	2218	2427	2635	2870	3121
-50°	1211	1331	1451	1581	1722	1868	2030	2202	2390	2578	2776
-52.5°	1138	1247	1357	1466	1592	1717	1853	1999	2155	2317	2479
-55°	1065	1169	1263	1362	1461	1576	1691	1816	1936	2077	2207
-57.5°	997	1085	1169	1258	1346	1435	1539	1639	1748	1858	1962
-60°	934	1007	1080	1159	1237	1315	1388	1477	1571	1654	1748
-62.5°	872	929	992	1054	1122	1190	1258	1325	1404	1477	1550
-65°	804	856	908	960	1018	1075	1132	1185	1242	1310	1367
-67.5°	736	783	825	872	913	960	1007	1054	1101	1153	1205
-70°	673	705	746	783	814	845	882	924	965	1012	1054
-72.5°	605	631	663	699	715	725	751	783	825	872	913
-75°	522	558	574	595	605	600	600	611	652	710	762
-77.5°	428	454	475	496	491	485	475	464	501	548	595
-80°	334	355	376	391	391	376	360	339	376	423	470
-82.5°	256	271	282	292	292	282	271	256	287	318	355
-85°	172	188	193	204	198	188	183	172	193	214	240
-87.5°	89	94	99	99	99	94	89	84	94	104	115
-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°	131	131	131	131	125	131	131	136	141	125	110
85°	261	266	266	266	266	266	266	266	266	240	214
82.5°	391	407	418	433	444	444	438	433	423	381	334
80°	517	543	558	574	590	584	579	569	564	511	459
77.5°	642	673	694	710	725	731	725	725	720	673	616
75°	804	830	851	872	892	903	908	908	908	866	814
72.5°	950	981	1012	1044	1070	1085	1101	1112	1122	1101	1070
70°	1101	1138	1174	1211	1247	1273	1294	1315	1325	1331	1331
67.5°	1258	1305	1352	1399	1440	1477	1503	1529	1550	1571	1581
65°	1430	1492	1550	1602	1649	1696	1733	1769	1800	1826	1842
62.5°	1623	1696	1764	1832	1884	1941	1999	2051	2093	2129	2155
60°	1837	1926	2009	2093	2176	2244	2317	2380	2432	2479	2520
57.5°	2077	2187	2291	2400	2494	2583	2672	2761	2839	2901	2954
55°	2343	2479	2614	2745	2875	2995	3110	3225	3329	3413	3486
52.5°	2651	2813	2985	3147	3324	3481	3627	3783	3924	4049	4154
50°	2980	3188	3413	3622	3851	4070	4269	4467	4665	4837	4978
47.5°	3366	3616	3909	4196	4477	4775	5051	5312	5584	5813	6006
45°	3783	4133	4477	4863	5218	5620	6001	6382	6716	7050	7332
42.5°	4279	4717	5156	5651	6137	6643	7180	7660	8161	8652	9059
40°	4869	5385	5991	6586	7259	7895	8657	9330	9967	10588	11115
37.5°	5516	6199	6946	7702	8615	9513	10405	11251	12007	12701	13254
35°	6262	7123	8010	9111	10197	11292	12315	13275	14136	14841	15425
32.5°	7118	8135	9362	10640	11898	13114	14335	15284	16182	16986	17674
30°	8026	9351	10781	12211	13583	14903	16135	17278	18321	19224	19997
27.5°	9090	10624	12216	13750	15222	16646	18045	19349	20492	21442	22402
25°	10144	11903	13604	15227	16819	18410	19950	21416	22752	23915	24954
22.5°	11256	13093	14888	16610	18415	20148	21833	23503	25037	26378	27547
20°	12284	14256	16088	18008	19965	21844	23738	25544	27255	28873	30203
17.5°	13202	15211	17210	19235	21369	23498	25554	27511	29462	31346	33006
15°	14022	16130	18181	20388	22689	24980	27271	29426	31623	33710	35568
12.5°	14747	16923	19104	21452	23858	26243	28753	31258	33694	35944	37958
10°	15347	17607	19944	22376	24876	27396	30099	32880	35490	37880	40071
7.5°	15801	18123	20565	23091	25726	28424	31247	34081	36841	39409	41705
5°	16125	18468	20978	23555	26300	29118	32129	35150	37968	40624	42973
2.5°	16417	18775	21332	23811	26608	29530	32546	35677	38558	41287	43901
0°	16495	18901	21484	24030	26749	29682	32755	35813	38767	41731	44188
-2.5°	16417	18775	21332	23811	26608	29530	32546	35677	38558	41287	43901
-5°	16125	18468	20978	23555	26300	29118	32129	35150	37968	40624	42973
-7.5°	15801	18123	20565	23091	25726	28424	31247	34081	36841	39409	41705
-10°	15347	17607	19944	22376	24876	27396	30099	32880	35490	37880	40071
-12.5°	14747	16923	19104	21452	23858	26243	28753	31258	33694	35944	37958
-15°	14022	16130	18181	20388	22689	24980	27271	29426	31623	33710	35568
-17.5°	13202	15211	17210	19235	21369	23498	25554	27511	29462	31346	33006
-20°	12284	14256	16088	18008	19965	21844	23738	25544	27255	28873	30203



REPORT NUMBER: P621376  
 CATALOG NUMBER: EPH-VN-06-E-730-U-66

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11256	13093	14888	16610	18415	20148	21833	23503	25037	26378	27547
-25°	10144	11903	13604	15227	16819	18410	19950	21416	22752	23915	24954
-27.5°	9090	10624	12216	13750	15222	16646	18045	19349	20492	21442	22402
-30°	8026	9351	10781	12211	13583	14903	16135	17278	18321	19224	19997
-32.5°	7118	8135	9362	10640	11898	13114	14335	15284	16182	16986	17674
-35°	6262	7123	8010	9111	10197	11292	12315	13275	14136	14841	15425
-37.5°	5516	6199	6946	7702	8615	9513	10405	11251	12007	12701	13254
-40°	4869	5385	5991	6586	7259	7895	8657	9330	9967	10588	11115
-42.5°	4279	4717	5156	5651	6137	6643	7180	7660	8161	8652	9059
-45°	3783	4133	4477	4863	5218	5620	6001	6382	6716	7050	7332
-47.5°	3366	3616	3909	4196	4477	4775	5051	5312	5584	5813	6006
-50°	2980	3188	3413	3622	3851	4070	4269	4467	4665	4837	4978
-52.5°	2651	2813	2985	3147	3324	3481	3627	3783	3924	4049	4154
-55°	2343	2479	2614	2745	2875	2995	3110	3225	3329	3413	3486
-57.5°	2077	2187	2291	2400	2494	2583	2672	2761	2839	2901	2954
-60°	1837	1926	2009	2093	2176	2244	2317	2380	2432	2479	2520
-62.5°	1623	1696	1764	1832	1884	1941	1999	2051	2093	2129	2155
-65°	1430	1492	1550	1602	1649	1696	1733	1769	1800	1826	1842
-67.5°	1258	1305	1352	1399	1440	1477	1503	1529	1550	1571	1581
-70°	1101	1138	1174	1211	1247	1273	1294	1315	1325	1331	1331
-72.5°	950	981	1012	1044	1070	1085	1101	1112	1122	1101	1070
-75°	804	830	851	872	892	903	908	908	908	866	814
-77.5°	642	673	694	710	725	731	725	725	720	673	616
-80°	517	543	558	574	590	584	579	569	564	511	459
-82.5°	391	407	418	433	444	444	438	433	423	381	334
-85°	261	266	266	266	266	266	266	266	266	240	214
-87.5°	131	131	131	131	125	131	131	136	141	125	110
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P621376  
 CATALOG NUMBER: EPH-VN-06-E-730-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°	89	73	68	57	68	73	89	110	125	141	136
85°	183	151	146	136	146	151	183	214	240	266	266
82.5°	292	240	230	219	230	240	292	334	381	423	433
80°	412	350	339	329	339	350	412	459	511	564	569
77.5°	558	501	480	464	480	501	558	616	673	720	725
75°	757	699	684	668	684	699	757	814	866	908	908
72.5°	1033	1007	965	929	965	1007	1033	1070	1101	1122	1112
70°	1336	1346	1336	1320	1336	1346	1336	1331	1331	1325	1315
67.5°	1586	1597	1597	1602	1597	1597	1586	1581	1571	1550	1529
65°	1858	1863	1879	1884	1879	1863	1858	1842	1826	1800	1769
62.5°	2171	2187	2197	2197	2197	2187	2171	2155	2129	2093	2051
60°	2547	2567	2594	2599	2594	2567	2547	2520	2479	2432	2380
57.5°	2995	3021	3058	3068	3058	3021	2995	2954	2901	2839	2761
55°	3538	3575	3595	3585	3595	3575	3538	3486	3413	3329	3225
52.5°	4243	4305	4347	4326	4347	4305	4243	4154	4049	3924	3783
50°	5093	5171	5224	5208	5224	5171	5093	4978	4837	4665	4467
47.5°	6158	6267	6356	6361	6356	6267	6158	6006	5813	5584	5312
45°	7556	7718	7838	7817	7838	7718	7556	7332	7050	6716	6382
42.5°	9372	9596	9774	9758	9774	9596	9372	9059	8652	8161	7660
40°	11506	11783	12018	12080	12018	11783	11506	11115	10588	9967	9330
37.5°	13703	14058	14356	14324	14356	14058	13703	13254	12701	12007	11251
35°	15911	16281	16573	16599	16573	16281	15911	15425	14841	14136	13275
32.5°	18222	18635	18979	19026	18979	18635	18222	17674	16986	16182	15284
30°	20633	21129	21541	21625	21541	21129	20633	19997	19224	18321	17278
27.5°	23169	23759	24150	24302	24150	23759	23169	22402	21442	20492	19349
25°	25784	26425	26864	27109	26864	26425	25784	24954	23915	22752	21416
22.5°	28513	29275	29843	30115	29843	29275	28513	27547	26378	25037	23503
20°	31331	32160	32823	33105	32823	32160	31331	30203	28873	27255	25544
17.5°	34201	35213	35949	36309	35949	35213	34201	33006	31346	29462	27511
15°	36987	38062	38861	39247	38861	38062	36987	35568	33710	31623	29426
12.5°	39570	40708	41506	42065	41506	40708	39570	37958	35944	33694	31258
10°	41877	43119	43928	44507	43928	43119	41877	40071	37880	35490	32880
7.5°	43604	45175	46088	46657	46088	45175	43604	41705	39409	36841	34081
5°	44929	46662	47492	48029	47492	46662	44929	42973	40624	37968	35150
2.5°	45900	47267	48306	48843	48306	47267	45900	43901	41287	38558	35677
0°	46281	47888	48624	48974	48624	47888	46281	44188	41731	38767	35813
-2.5°	45900	47267	48306	48843	48306	47267	45900	43901	41287	38558	35677
-5°	44929	46662	47492	48029	47492	46662	44929	42973	40624	37968	35150
-7.5°	43604	45175	46088	46657	46088	45175	43604	41705	39409	36841	34081
-10°	41877	43119	43928	44507	43928	43119	41877	40071	37880	35490	32880
-12.5°	39570	40708	41506	42065	41506	40708	39570	37958	35944	33694	31258
-15°	36987	38062	38861	39247	38861	38062	36987	35568	33710	31623	29426
-17.5°	34201	35213	35949	36309	35949	35213	34201	33006	31346	29462	27511
-20°	31331	32160	32823	33105	32823	32160	31331	30203	28873	27255	25544



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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°	28513	29275	29843	30115	29843	29275	28513	27547	26378	25037	23503
-25°	25784	26425	26864	27109	26864	26425	25784	24954	23915	22752	21416
-27.5°	23169	23759	24150	24302	24150	23759	23169	22402	21442	20492	19349
-30°	20633	21129	21541	21625	21541	21129	20633	19997	19224	18321	17278
-32.5°	18222	18635	18979	19026	18979	18635	18222	17674	16986	16182	15284
-35°	15911	16281	16573	16599	16573	16281	15911	15425	14841	14136	13275
-37.5°	13703	14058	14356	14324	14356	14058	13703	13254	12701	12007	11251
-40°	11506	11783	12018	12080	12018	11783	11506	11115	10588	9967	9330
-42.5°	9372	9596	9774	9758	9774	9596	9372	9059	8652	8161	7660
-45°	7556	7718	7838	7817	7838	7718	7556	7332	7050	6716	6382
-47.5°	6158	6267	6356	6361	6356	6267	6158	6006	5813	5584	5312
-50°	5093	5171	5224	5208	5224	5171	5093	4978	4837	4665	4467
-52.5°	4243	4305	4347	4326	4347	4305	4243	4154	4049	3924	3783
-55°	3538	3575	3595	3585	3595	3575	3538	3486	3413	3329	3225
-57.5°	2995	3021	3058	3068	3058	3021	2995	2954	2901	2839	2761
-60°	2547	2567	2594	2599	2594	2567	2547	2520	2479	2432	2380
-62.5°	2171	2187	2197	2197	2197	2187	2171	2155	2129	2093	2051
-65°	1858	1863	1879	1884	1879	1863	1858	1842	1826	1800	1769
-67.5°	1586	1597	1597	1602	1597	1597	1586	1581	1571	1550	1529
-70°	1336	1346	1336	1320	1336	1346	1336	1331	1331	1325	1315
-72.5°	1033	1007	965	929	965	1007	1033	1070	1101	1122	1112
-75°	757	699	684	668	684	699	757	814	866	908	908
-77.5°	558	501	480	464	480	501	558	616	673	720	725
-80°	412	350	339	329	339	350	412	459	511	564	569
-82.5°	292	240	230	219	230	240	292	334	381	423	433
-85°	183	151	146	136	146	151	183	214	240	266	266
-87.5°	89	73	68	57	68	73	89	110	125	141	136
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P621376  
 CATALOG NUMBER: EPH-VN-06-E-730-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°	131	131	125	131	131	131	131	115	104	94	84
85°	266	266	266	266	266	266	261	240	214	193	172
82.5°	438	444	444	433	418	407	391	355	318	287	256
80°	579	584	590	574	558	543	517	470	423	376	339
77.5°	725	731	725	710	694	673	642	595	548	501	464
75°	908	903	892	872	851	830	804	762	710	652	611
72.5°	1101	1085	1070	1044	1012	981	950	913	872	825	783
70°	1294	1273	1247	1211	1174	1138	1101	1054	1012	965	924
67.5°	1503	1477	1440	1399	1352	1305	1258	1205	1153	1101	1054
65°	1733	1696	1649	1602	1550	1492	1430	1367	1310	1242	1185
62.5°	1999	1941	1884	1832	1764	1696	1623	1550	1477	1404	1325
60°	2317	2244	2176	2093	2009	1926	1837	1748	1654	1571	1477
57.5°	2672	2583	2494	2400	2291	2187	2077	1962	1858	1748	1639
55°	3110	2995	2875	2745	2614	2479	2343	2207	2077	1936	1816
52.5°	3627	3481	3324	3147	2985	2813	2651	2479	2317	2155	1999
50°	4269	4070	3851	3622	3413	3188	2980	2776	2578	2390	2202
47.5°	5051	4775	4477	4196	3909	3616	3366	3121	2870	2635	2427
45°	6001	5620	5218	4863	4477	4133	3783	3481	3188	2922	2656
42.5°	7180	6643	6137	5651	5156	4717	4279	3903	3548	3220	2922
40°	8657	7895	7259	6586	5991	5385	4869	4383	3945	3554	3188
37.5°	10405	9513	8615	7702	6946	6199	5516	4916	4389	3914	3491
35°	12315	11292	10197	9111	8010	7123	6262	5511	4869	4295	3804
32.5°	14335	13114	11898	10640	9362	8135	7118	6184	5380	4723	4143
30°	16135	14903	13583	12211	10781	9351	8026	6940	5985	5156	4488
27.5°	18045	16646	15222	13750	12216	10624	9090	7707	6591	5657	4869
25°	19950	18410	16819	15227	13604	11903	10144	8584	7259	6152	5208
22.5°	21833	20148	18415	16610	14888	13093	11256	9435	7874	6643	5604
20°	23738	21844	19965	18008	16088	14256	12284	10332	8600	7149	5970
17.5°	25554	23498	21369	19235	17210	15211	13202	11198	9268	7608	6335
15°	27271	24980	22689	20388	18181	16130	14022	11950	9899	8094	6653
12.5°	28753	26243	23858	21452	19104	16923	14747	12602	10494	8563	6977
10°	30099	27396	24876	22376	19944	17607	15347	13145	10979	8944	7238
7.5°	31247	28424	25726	23091	20565	18123	15801	13562	11355	9236	7441
5°	32129	29118	26300	23555	20978	18468	16125	13860	11621	9445	7572
2.5°	32546	29530	26608	23811	21332	18775	16417	14126	11846	9643	7713
0°	32755	29682	26749	24030	21484	18901	16495	14162	11840	9670	7723
-2.5°	32546	29530	26608	23811	21332	18775	16417	14126	11846	9643	7713
-5°	32129	29118	26300	23555	20978	18468	16125	13860	11621	9445	7572
-7.5°	31247	28424	25726	23091	20565	18123	15801	13562	11355	9236	7441
-10°	30099	27396	24876	22376	19944	17607	15347	13145	10979	8944	7238
-12.5°	28753	26243	23858	21452	19104	16923	14747	12602	10494	8563	6977
-15°	27271	24980	22689	20388	18181	16130	14022	11950	9899	8094	6653
-17.5°	25554	23498	21369	19235	17210	15211	13202	11198	9268	7608	6335
-20°	23738	21844	19965	18008	16088	14256	12284	10332	8600	7149	5970



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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°	21833	20148	18415	16610	14888	13093	11256	9435	7874	6643	5604
-25°	19950	18410	16819	15227	13604	11903	10144	8584	7259	6152	5208
-27.5°	18045	16646	15222	13750	12216	10624	9090	7707	6591	5657	4869
-30°	16135	14903	13583	12211	10781	9351	8026	6940	5985	5156	4488
-32.5°	14335	13114	11898	10640	9362	8135	7118	6184	5380	4723	4143
-35°	12315	11292	10197	9111	8010	7123	6262	5511	4869	4295	3804
-37.5°	10405	9513	8615	7702	6946	6199	5516	4916	4389	3914	3491
-40°	8657	7895	7259	6586	5991	5385	4869	4383	3945	3554	3188
-42.5°	7180	6643	6137	5651	5156	4717	4279	3903	3548	3220	2922
-45°	6001	5620	5218	4863	4477	4133	3783	3481	3188	2922	2656
-47.5°	5051	4775	4477	4196	3909	3616	3366	3121	2870	2635	2427
-50°	4269	4070	3851	3622	3413	3188	2980	2776	2578	2390	2202
-52.5°	3627	3481	3324	3147	2985	2813	2651	2479	2317	2155	1999
-55°	3110	2995	2875	2745	2614	2479	2343	2207	2077	1936	1816
-57.5°	2672	2583	2494	2400	2291	2187	2077	1962	1858	1748	1639
-60°	2317	2244	2176	2093	2009	1926	1837	1748	1654	1571	1477
-62.5°	1999	1941	1884	1832	1764	1696	1623	1550	1477	1404	1325
-65°	1733	1696	1649	1602	1550	1492	1430	1367	1310	1242	1185
-67.5°	1503	1477	1440	1399	1352	1305	1258	1205	1153	1101	1054
-70°	1294	1273	1247	1211	1174	1138	1101	1054	1012	965	924
-72.5°	1101	1085	1070	1044	1012	981	950	913	872	825	783
-75°	908	903	892	872	851	830	804	762	710	652	611
-77.5°	725	731	725	710	694	673	642	595	548	501	464
-80°	579	584	590	574	558	543	517	470	423	376	339
-82.5°	438	444	444	433	418	407	391	355	318	287	256
-85°	266	266	266	266	266	266	261	240	214	193	172
-87.5°	131	131	125	131	131	131	131	115	104	94	84
-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°	89	94	99	99	99	94	89	84	73	68	63
85°	183	188	198	204	193	188	172	162	151	136	125
82.5°	271	282	292	292	282	271	256	240	224	204	183
80°	360	376	391	391	376	355	334	313	292	266	240
77.5°	475	485	491	496	475	454	428	391	360	329	297
75°	600	600	605	595	574	558	522	480	433	391	350
72.5°	751	725	715	699	663	631	605	569	506	449	402
70°	882	845	814	783	746	705	673	626	574	506	449
67.5°	1007	960	913	872	825	783	736	678	621	558	496
65°	1132	1075	1018	960	908	856	804	736	668	605	538
62.5°	1258	1190	1122	1054	992	929	872	793	715	647	574
60°	1388	1315	1237	1159	1080	1007	934	851	767	684	611
57.5°	1539	1435	1346	1258	1169	1085	997	908	819	731	642
55°	1691	1576	1461	1362	1263	1169	1065	965	866	772	673
52.5°	1853	1717	1592	1466	1357	1247	1138	1033	918	814	694
50°	2030	1868	1722	1581	1451	1331	1211	1091	971	856	720
47.5°	2218	2030	1858	1696	1555	1409	1279	1153	1023	903	746
45°	2427	2202	1999	1821	1649	1492	1352	1211	1075	934	762
42.5°	2630	2385	2155	1936	1753	1576	1425	1273	1127	960	788
40°	2870	2567	2312	2077	1858	1659	1487	1331	1179	992	809
37.5°	3121	2771	2474	2202	1962	1748	1560	1383	1216	1023	830
35°	3371	2980	2635	2333	2072	1837	1628	1440	1252	1049	851
32.5°	3632	3188	2797	2463	2176	1926	1696	1492	1294	1080	866
30°	3919	3408	2964	2588	2275	2004	1764	1545	1336	1106	882
27.5°	4190	3611	3126	2724	2380	2087	1826	1597	1383	1132	903
25°	4462	3830	3298	2849	2479	2160	1889	1644	1425	1164	918
22.5°	4754	4044	3455	2969	2567	2233	1946	1696	1461	1195	934
20°	5020	4237	3590	3084	2661	2307	2004	1738	1492	1226	950
17.5°	5265	4436	3757	3204	2750	2374	2051	1774	1524	1252	960
15°	5531	4634	3903	3308	2828	2432	2098	1811	1550	1279	965
12.5°	5761	4801	4029	3402	2896	2479	2134	1837	1576	1305	976
10°	5949	4937	4133	3475	2948	2520	2160	1863	1592	1320	981
7.5°	6095	5041	4211	3533	2990	2552	2187	1879	1607	1336	981
5°	6205	5119	4263	3575	3021	2578	2207	1894	1623	1357	986
2.5°	6304	5203	4305	3611	3048	2599	2223	1905	1623	1352	976
0°	6319	5218	4300	3611	3048	2604	2223	1905	1618	1346	965
-2.5°	6304	5203	4305	3611	3048	2599	2223	1905	1623	1352	976
-5°	6205	5119	4263	3575	3021	2578	2207	1894	1623	1357	986
-7.5°	6095	5041	4211	3533	2990	2552	2187	1879	1607	1336	981
-10°	5949	4937	4133	3475	2948	2520	2160	1863	1592	1320	981
-12.5°	5761	4801	4029	3402	2896	2479	2134	1837	1576	1305	976
-15°	5531	4634	3903	3308	2828	2432	2098	1811	1550	1279	965
-17.5°	5265	4436	3757	3204	2750	2374	2051	1774	1524	1252	960
-20°	5020	4237	3590	3084	2661	2307	2004	1738	1492	1226	950



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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°	4754	4044	3455	2969	2567	2233	1946	1696	1461	1195	934
-25°	4462	3830	3298	2849	2479	2160	1889	1644	1425	1164	918
-27.5°	4190	3611	3126	2724	2380	2087	1826	1597	1383	1132	903
-30°	3919	3408	2964	2588	2275	2004	1764	1545	1336	1106	882
-32.5°	3632	3188	2797	2463	2176	1926	1696	1492	1294	1080	866
-35°	3371	2980	2635	2333	2072	1837	1628	1440	1252	1049	851
-37.5°	3121	2771	2474	2202	1962	1748	1560	1383	1216	1023	830
-40°	2870	2567	2312	2077	1858	1659	1487	1331	1179	992	809
-42.5°	2630	2385	2155	1936	1753	1576	1425	1273	1127	960	788
-45°	2427	2202	1999	1821	1649	1492	1352	1211	1075	934	762
-47.5°	2218	2030	1858	1696	1555	1409	1279	1153	1023	903	746
-50°	2030	1868	1722	1581	1451	1331	1211	1091	971	856	720
-52.5°	1853	1717	1592	1466	1357	1247	1138	1033	918	814	694
-55°	1691	1576	1461	1362	1263	1169	1065	965	866	772	673
-57.5°	1539	1435	1346	1258	1169	1085	997	908	819	731	642
-60°	1388	1315	1237	1159	1080	1007	934	851	767	684	611
-62.5°	1258	1190	1122	1054	992	929	872	793	715	647	574
-65°	1132	1075	1018	960	908	856	804	736	668	605	538
-67.5°	1007	960	913	872	825	783	736	678	621	558	496
-70°	882	845	814	783	746	705	673	626	574	506	449
-72.5°	751	725	715	699	663	631	605	569	506	449	402
-75°	600	600	605	595	574	558	522	480	433	391	350
-77.5°	475	485	491	496	475	454	428	391	360	329	297
-80°	360	376	391	391	376	355	334	313	292	266	240
-82.5°	271	282	292	292	282	271	256	240	224	204	183
-85°	183	188	198	204	193	188	172	162	151	136	125
-87.5°	89	94	99	99	99	94	89	84	73	68	63
-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°	52	42	31	21	10	5	0
85°	110	84	57	37	21	10	0
82.5°	162	120	89	57	37	16	0
80°	214	162	115	78	47	21	0
77.5°	261	198	146	94	57	26	0
75°	303	230	172	115	68	31	0
72.5°	344	261	193	131	78	37	0
70°	386	292	214	151	89	42	0
67.5°	418	318	235	162	99	47	0
65°	444	344	251	172	110	47	0
62.5°	470	365	266	183	120	52	0
60°	501	386	287	193	125	57	0
57.5°	522	402	297	204	131	63	0
55°	543	423	308	214	141	68	0
52.5°	564	438	324	219	146	68	0
50°	579	454	334	224	151	73	0
47.5°	600	464	339	230	157	78	0
45°	616	480	350	235	162	78	0
42.5°	631	491	355	240	162	84	0
40°	647	496	365	251	167	89	0
37.5°	658	506	371	256	172	89	0
35°	663	511	376	261	177	94	0
32.5°	673	522	381	271	177	94	0
30°	689	522	381	277	183	94	0
27.5°	699	527	391	277	183	99	0
25°	705	527	397	282	188	99	0
22.5°	710	532	402	287	188	99	0
20°	715	538	407	292	193	104	0
17.5°	720	548	412	292	193	104	0
15°	731	553	412	292	193	110	0
12.5°	736	553	412	297	193	110	0
10°	741	558	412	297	198	104	0
7.5°	741	558	418	297	198	104	0
5°	741	564	412	297	193	104	0
2.5°	731	564	412	292	193	104	0
0°	725	558	407	292	193	104	0
-2.5°	731	564	412	292	193	104	0
-5°	741	564	412	297	193	104	0
-7.5°	741	558	418	297	198	104	0
-10°	741	558	412	297	198	104	0
-12.5°	736	553	412	297	193	110	0
-15°	731	553	412	292	193	110	0
-17.5°	720	548	412	292	193	104	0
-20°	715	538	407	292	193	104	0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	710	532	402	287	188	99	0
-25°	705	527	397	282	188	99	0
-27.5°	699	527	391	277	183	99	0
-30°	689	522	381	277	183	94	0
-32.5°	673	522	381	271	177	94	0
-35°	663	511	376	261	177	94	0
-37.5°	658	506	371	256	172	89	0
-40°	647	496	365	251	167	89	0
-42.5°	631	491	355	240	162	84	0
-45°	616	480	350	235	162	78	0
-47.5°	600	464	339	230	157	78	0
-50°	579	454	334	224	151	73	0
-52.5°	564	438	324	219	146	68	0
-55°	543	423	308	214	141	68	0
-57.5°	522	402	297	204	131	63	0
-60°	501	386	287	193	125	57	0
-62.5°	470	365	266	183	120	52	0
-65°	444	344	251	172	110	47	0
-67.5°	418	318	235	162	99	47	0
-70°	386	292	214	151	89	42	0
-72.5°	344	261	193	131	78	37	0
-75°	303	230	172	115	68	31	0
-77.5°	261	198	146	94	57	26	0
-80°	214	162	115	78	47	21	0
-82.5°	162	120	89	57	37	16	0
-85°	110	84	57	37	21	10	0
-87.5°	52	42	31	21	10	5	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)