

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: P621398

Luminaire Tested: **EPH-VN-08-D-760-U-66**

Issue Date: 09/19/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P621398  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 09/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-D-760-U-66  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 6 distribution lens  
Light Source: (128) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

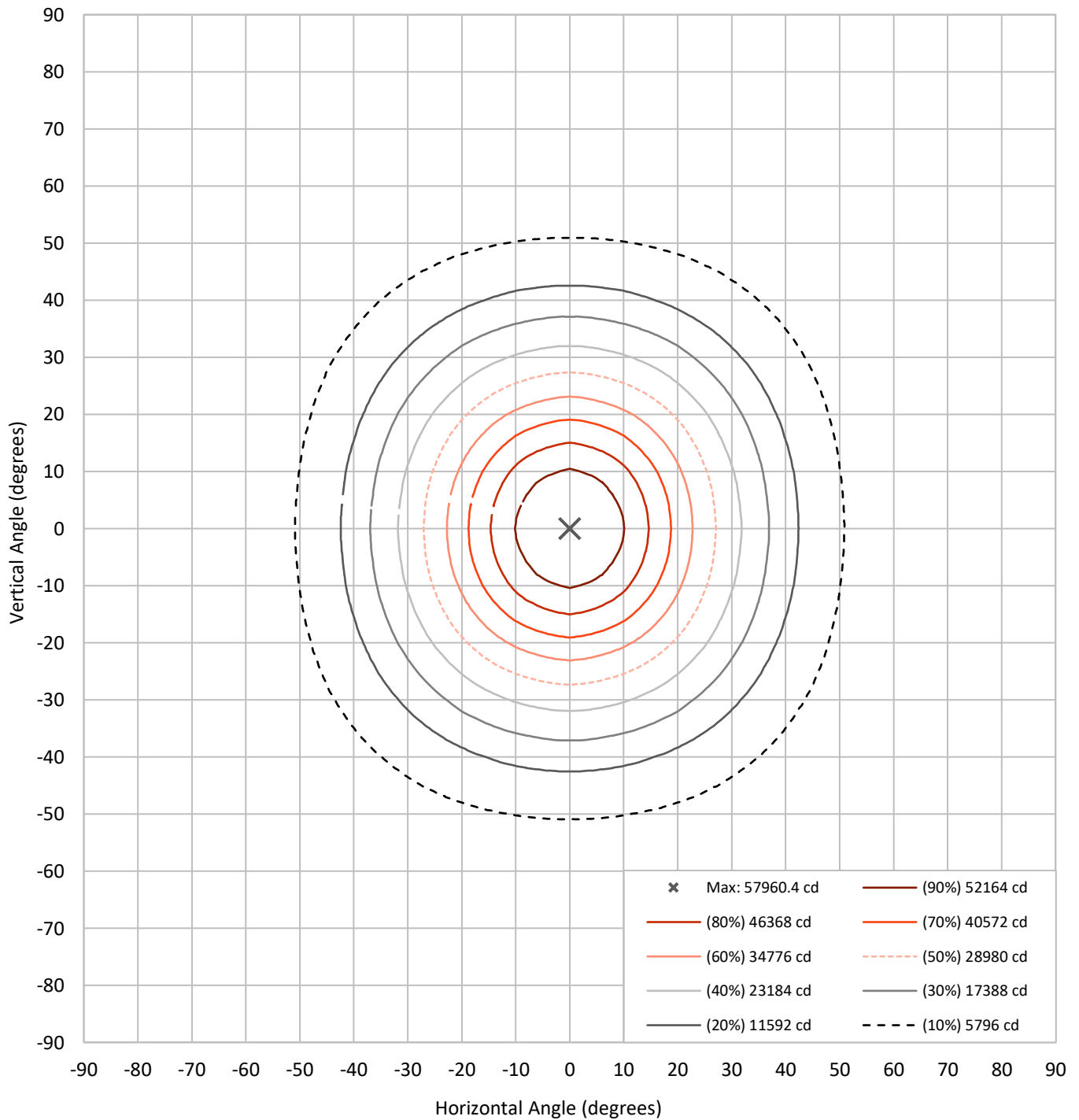
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	60114.5 lumens	Max Intensity:	57960.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	28903.2 lumens	Field Lumens:	52756.4 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%

Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Candela Plot





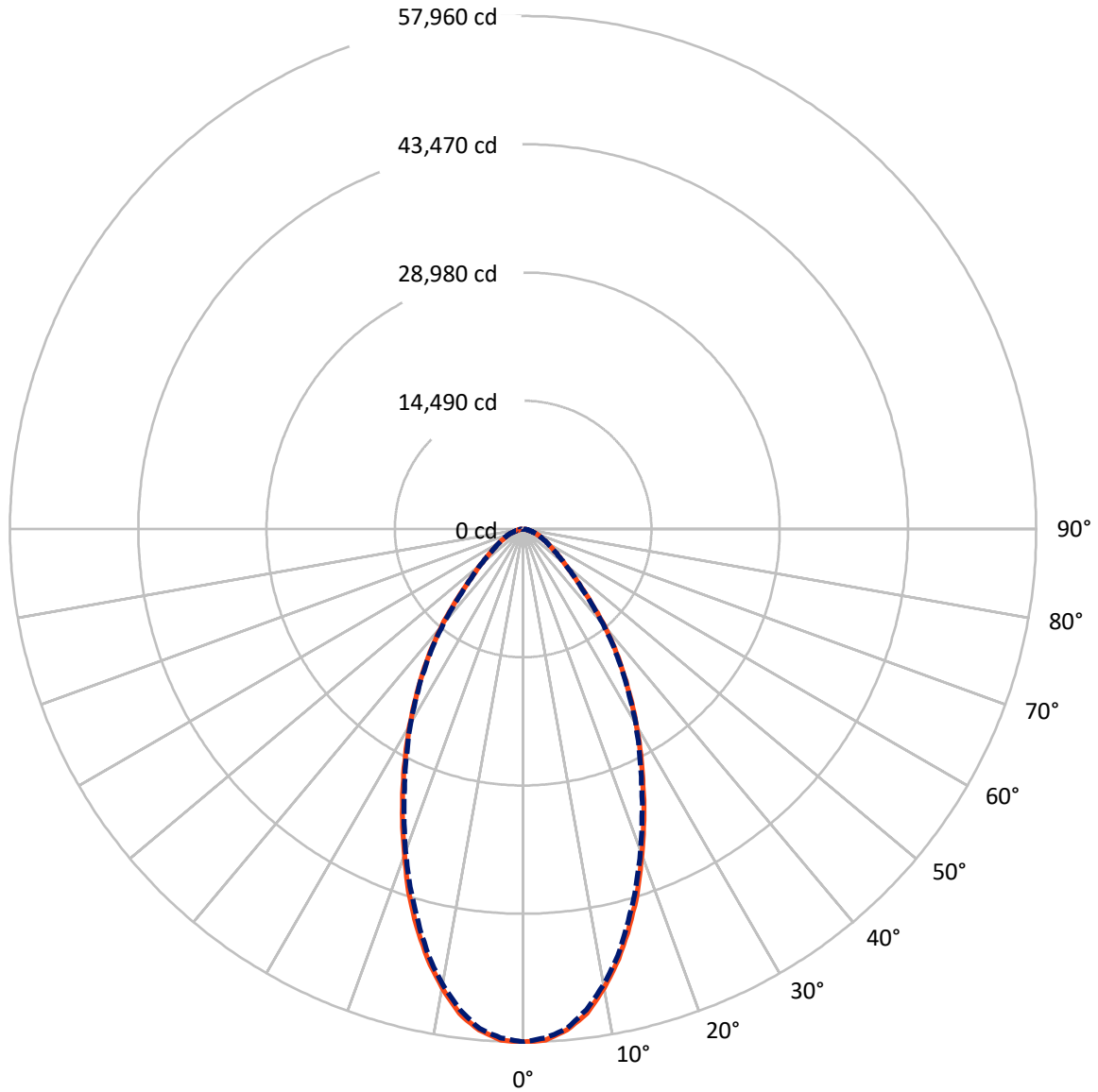
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### Lumen Table

90																		
80	4.2	25.8		51.9		79.0		67.9		79.0		51.9		25.8		4.2		
70																		
60	10.6	11.3	20.0	30.5	42.6	54.5	63.5	68.1	68.1	63.5	54.5	42.6	30.5	20.0	11.3	10.6		
50		14.9	28.4	46.7	70.0	95.4	118.2	132.0	132.0	118.2	95.4	70.0	46.7	28.4	14.9			
40	14.2	18.7	38.1	68.8	114.2	175.1	241.1	286.0	286.0	241.1	175.1	114.2	68.8	38.1	18.7	14.2		
30		22.3	49.2	99.1	190.0	336.1	488.8	583.8	583.8	488.8	336.1	190.0	99.1	49.2	22.3			
20	16.4	25.6	60.6	137.3	304.1	548.9	788.4	946.2	946.2	788.4	548.9	304.1	137.3	60.6	25.6	16.4		
10		28.3	70.7	176.6	414.2	739.1	1094.5	1351.3	1351.3	1094.5	739.1	414.2	176.6	70.7	28.3			
0	17.2	29.7	76.7	202.6	478.2	857.2	1305.4	1640.7	1640.7	1305.4	857.2	478.2	202.6	76.7	29.7	17.2		
-10		29.7	76.7	202.6	478.2	857.2	1305.4	1640.7	1640.7	1305.4	857.2	478.2	202.6	76.7	29.7			
-20	16.4	28.3	70.7	176.6	414.2	739.1	1094.5	1351.3	1351.3	1094.5	739.1	414.2	176.6	70.7	28.3	16.4		
-30		25.6	60.6	137.3	304.1	548.9	788.4	946.2	946.2	788.4	548.9	304.1	137.3	60.6	25.6			
-40	14.2	22.3	49.2	99.1	190.0	336.1	488.8	583.8	583.8	488.8	336.1	190.0	99.1	49.2	22.3	14.2		
-50		18.7	38.1	68.8	114.2	175.1	241.1	286.0	286.0	241.1	175.1	114.2	68.8	38.1	18.7			
-60	10.6	14.9	28.4	46.7	70.0	95.4	118.2	132.0	132.0	118.2	95.4	70.0	46.7	28.4	14.9	10.6		
-70		11.3	20.0	30.5	42.6	54.5	63.5	68.1	68.1	63.5	54.5	42.6	30.5	20.0	11.3			
-80																		
-90	4.2	25.8		51.9		79.0		67.9		79.0		51.9		25.8		4.2		
Horizontal Angle (degrees)																		

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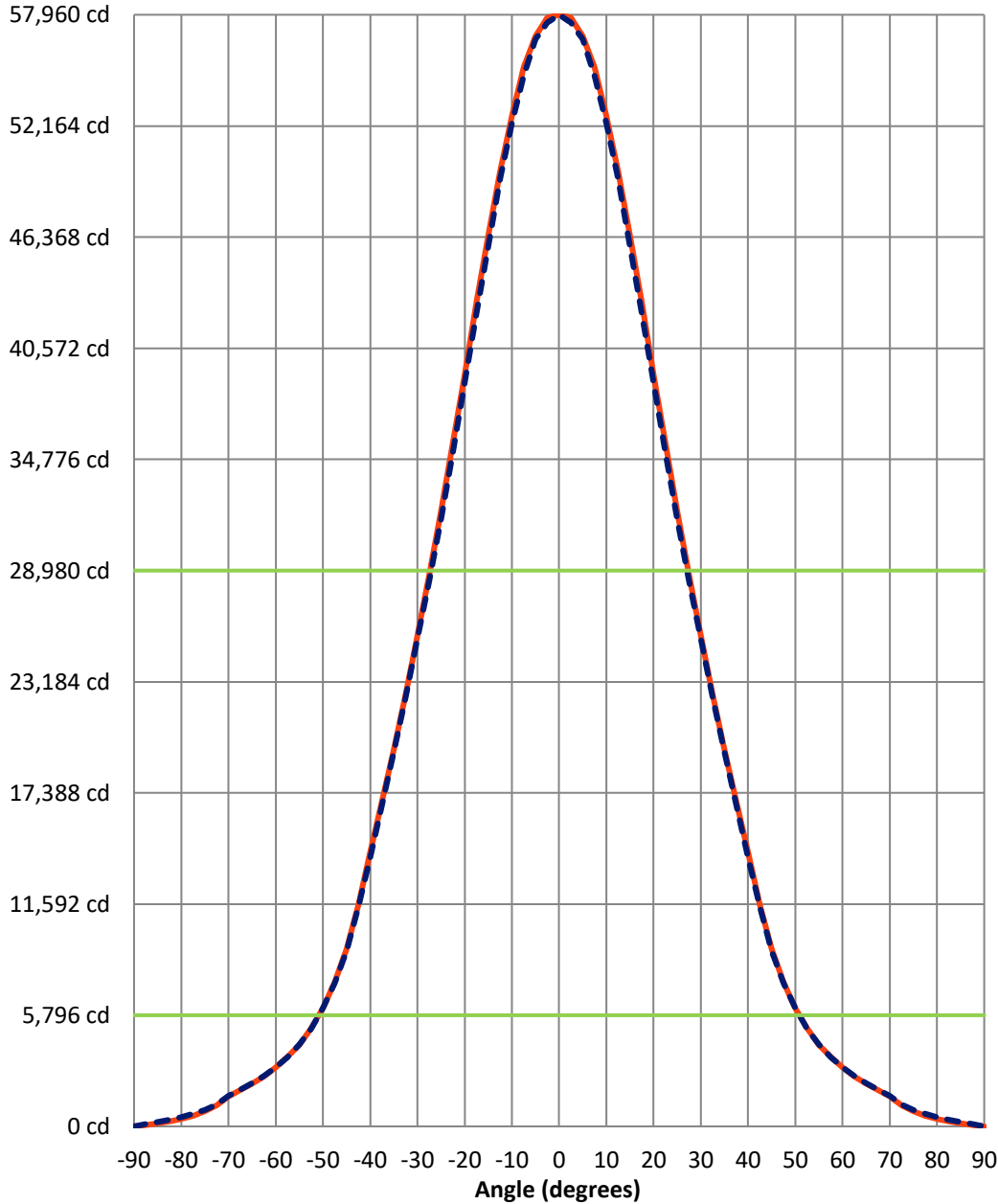
### Luminous Intensity Polar Plot



— 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: 28903.2  
 Efficiency: 48.1%

**Field:**  
 H Angle: 101.7°  
 V Angle: 101.8°  
 Lumens: 52756.4  
 Efficiency: 87.8%

**Spill:**  
 Lumens: 7358.1  
 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	6	12	25	37	49	62	74	80	87	99
85°	0	12	25	43	68	99	130	148	161	179	192
82.5°	0	19	43	68	105	142	192	216	241	266	284
80°	0	25	56	93	136	192	253	284	315	346	371
77.5°	0	31	68	111	173	235	309	352	389	426	463
75°	0	37	80	136	204	272	358	414	463	513	568
72.5°	0	43	93	154	229	309	408	476	531	599	673
70°	0	49	105	179	253	346	457	531	599	679	741
67.5°	0	56	117	192	278	377	494	587	661	735	803
65°	0	56	130	204	296	408	525	636	716	791	871
62.5°	0	62	142	216	315	432	556	679	766	846	939
60°	0	68	148	229	340	457	593	723	809	908	1007
57.5°	0	74	154	241	352	476	618	760	865	970	1075
55°	0	80	167	253	364	500	642	797	914	1025	1143
52.5°	0	80	173	259	383	519	667	821	963	1087	1223
50°	0	87	179	266	395	537	686	852	1013	1149	1291
47.5°	0	93	185	272	401	550	710	883	1068	1211	1365
45°	0	93	192	278	414	568	729	902	1106	1272	1433
42.5°	0	99	192	284	420	581	747	933	1136	1334	1507
40°	0	105	198	296	432	587	766	957	1173	1396	1575
37.5°	0	105	204	303	439	599	778	982	1211	1439	1637
35°	0	111	210	309	445	605	784	1007	1241	1482	1705
32.5°	0	111	210	321	451	618	797	1025	1278	1532	1766
30°	0	111	216	327	451	618	815	1044	1309	1581	1828
27.5°	0	117	216	327	463	624	828	1068	1340	1637	1890
25°	0	117	222	334	469	624	834	1087	1377	1686	1945
22.5°	0	117	222	340	476	630	840	1106	1414	1729	2007
20°	0	124	229	346	482	636	846	1124	1451	1766	2057
17.5°	0	124	229	346	488	649	852	1136	1482	1803	2100
15°	0	130	229	346	488	655	865	1143	1513	1834	2143
12.5°	0	130	229	352	488	655	871	1155	1544	1865	2174
10°	0	124	235	352	488	661	877	1161	1563	1884	2205
7.5°	0	124	235	352	494	661	877	1161	1581	1902	2223
5°	0	124	229	352	488	667	877	1167	1606	1921	2242
2.5°	0	124	229	346	488	667	865	1155	1600	1921	2254
0°	0	124	229	346	482	661	858	1143	1593	1915	2254
-2.5°	0	124	229	346	488	667	865	1155	1600	1921	2254
-5°	0	124	229	352	488	667	877	1167	1606	1921	2242
-7.5°	0	124	235	352	494	661	877	1161	1581	1902	2223
-10°	0	124	235	352	488	661	877	1161	1563	1884	2205
-12.5°	0	130	229	352	488	655	871	1155	1544	1865	2174
-15°	0	130	229	346	488	655	865	1143	1513	1834	2143
-17.5°	0	124	229	346	488	649	852	1136	1482	1803	2100
-20°	0	124	229	346	482	636	846	1124	1451	1766	2057



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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	117	222	340	476	630	840	1106	1414	1729	2007
-25°	0	117	222	334	469	624	834	1087	1377	1686	1945
-27.5°	0	117	216	327	463	624	828	1068	1340	1637	1890
-30°	0	111	216	327	451	618	815	1044	1309	1581	1828
-32.5°	0	111	210	321	451	618	797	1025	1278	1532	1766
-35°	0	111	210	309	445	605	784	1007	1241	1482	1705
-37.5°	0	105	204	303	439	599	778	982	1211	1439	1637
-40°	0	105	198	296	432	587	766	957	1173	1396	1575
-42.5°	0	99	192	284	420	581	747	933	1136	1334	1507
-45°	0	93	192	278	414	568	729	902	1106	1272	1433
-47.5°	0	93	185	272	401	550	710	883	1068	1211	1365
-50°	0	87	179	266	395	537	686	852	1013	1149	1291
-52.5°	0	80	173	259	383	519	667	821	963	1087	1223
-55°	0	80	167	253	364	500	642	797	914	1025	1143
-57.5°	0	74	154	241	352	476	618	760	865	970	1075
-60°	0	68	148	229	340	457	593	723	809	908	1007
-62.5°	0	62	142	216	315	432	556	679	766	846	939
-65°	0	56	130	204	296	408	525	636	716	791	871
-67.5°	0	56	117	192	278	377	494	587	661	735	803
-70°	0	49	105	179	253	346	457	531	599	679	741
-72.5°	0	43	93	154	229	309	408	476	531	599	673
-75°	0	37	80	136	204	272	358	414	463	513	568
-77.5°	0	31	68	111	173	235	309	352	389	426	463
-80°	0	25	56	93	136	192	253	284	315	346	371
-82.5°	0	19	43	68	105	142	192	216	241	266	284
-85°	0	12	25	43	68	99	130	148	161	179	192
-87.5°	0	6	12	25	37	49	62	74	80	87	99
-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°	105	111	117	117	117	111	105	99	111	124	136
85°	204	222	229	241	235	222	216	204	229	253	284
82.5°	303	321	334	346	346	334	321	303	340	377	420
80°	395	420	445	463	463	445	426	401	445	500	556
77.5°	506	537	562	587	581	574	562	550	593	649	704
75°	618	661	679	704	716	710	710	723	772	840	902
72.5°	716	747	784	828	846	858	889	926	976	1031	1081
70°	797	834	883	926	963	1001	1044	1093	1143	1198	1248
67.5°	871	926	976	1031	1081	1136	1192	1248	1303	1365	1427
65°	951	1013	1075	1136	1204	1272	1340	1402	1470	1550	1618
62.5°	1031	1099	1173	1248	1328	1408	1488	1569	1661	1748	1834
60°	1106	1192	1278	1371	1464	1556	1643	1748	1859	1958	2069
57.5°	1180	1285	1383	1488	1593	1698	1822	1939	2069	2199	2322
55°	1260	1383	1495	1612	1729	1865	2001	2149	2291	2458	2612
52.5°	1346	1476	1606	1735	1884	2032	2192	2365	2551	2742	2934
50°	1433	1575	1717	1871	2038	2211	2402	2606	2829	3051	3286
47.5°	1513	1668	1840	2007	2199	2402	2625	2872	3119	3397	3693
45°	1600	1766	1952	2155	2365	2606	2872	3144	3459	3774	4119
42.5°	1686	1865	2075	2291	2551	2822	3113	3459	3811	4200	4620
40°	1760	1964	2199	2458	2736	3039	3397	3774	4206	4669	5188
37.5°	1847	2069	2322	2606	2927	3279	3693	4132	4632	5194	5818
35°	1927	2174	2452	2761	3119	3526	3990	4502	5083	5762	6522
32.5°	2007	2279	2575	2915	3310	3774	4298	4904	5589	6367	7318
30°	2087	2372	2693	3063	3508	4033	4638	5311	6102	7084	8214
27.5°	2162	2470	2816	3224	3699	4274	4959	5762	6695	7800	9122
25°	2236	2557	2934	3372	3903	4533	5280	6164	7281	8591	10159
22.5°	2304	2643	3039	3514	4088	4786	5626	6633	7862	9319	11166
20°	2372	2730	3150	3650	4249	5015	5941	7065	8461	10178	12228
17.5°	2427	2810	3255	3792	4447	5250	6231	7498	9004	10968	13253
15°	2483	2878	3347	3916	4620	5484	6546	7874	9579	11716	14143
12.5°	2526	2934	3428	4027	4768	5682	6818	8257	10135	12420	14915
10°	2557	2983	3489	4113	4891	5842	7041	8566	10585	12994	15557
7.5°	2588	3020	3539	4181	4984	5966	7213	8807	10931	13439	16051
5°	2612	3051	3576	4231	5046	6059	7343	8961	11178	13754	16403
2.5°	2631	3076	3607	4274	5095	6157	7460	9128	11413	14019	16718
0°	2631	3082	3607	4274	5089	6176	7479	9140	11444	14013	16761
-2.5°	2631	3076	3607	4274	5095	6157	7460	9128	11413	14019	16718
-5°	2612	3051	3576	4231	5046	6059	7343	8961	11178	13754	16403
-7.5°	2588	3020	3539	4181	4984	5966	7213	8807	10931	13439	16051
-10°	2557	2983	3489	4113	4891	5842	7041	8566	10585	12994	15557
-12.5°	2526	2934	3428	4027	4768	5682	6818	8257	10135	12420	14915
-15°	2483	2878	3347	3916	4620	5484	6546	7874	9579	11716	14143
-17.5°	2427	2810	3255	3792	4447	5250	6231	7498	9004	10968	13253
-20°	2372	2730	3150	3650	4249	5015	5941	7065	8461	10178	12228



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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°	2304	2643	3039	3514	4088	4786	5626	6633	7862	9319	11166
-25°	2236	2557	2934	3372	3903	4533	5280	6164	7281	8591	10159
-27.5°	2162	2470	2816	3224	3699	4274	4959	5762	6695	7800	9122
-30°	2087	2372	2693	3063	3508	4033	4638	5311	6102	7084	8214
-32.5°	2007	2279	2575	2915	3310	3774	4298	4904	5589	6367	7318
-35°	1927	2174	2452	2761	3119	3526	3990	4502	5083	5762	6522
-37.5°	1847	2069	2322	2606	2927	3279	3693	4132	4632	5194	5818
-40°	1760	1964	2199	2458	2736	3039	3397	3774	4206	4669	5188
-42.5°	1686	1865	2075	2291	2551	2822	3113	3459	3811	4200	4620
-45°	1600	1766	1952	2155	2365	2606	2872	3144	3459	3774	4119
-47.5°	1513	1668	1840	2007	2199	2402	2625	2872	3119	3397	3693
-50°	1433	1575	1717	1871	2038	2211	2402	2606	2829	3051	3286
-52.5°	1346	1476	1606	1735	1884	2032	2192	2365	2551	2742	2934
-55°	1260	1383	1495	1612	1729	1865	2001	2149	2291	2458	2612
-57.5°	1180	1285	1383	1488	1593	1698	1822	1939	2069	2199	2322
-60°	1106	1192	1278	1371	1464	1556	1643	1748	1859	1958	2069
-62.5°	1031	1099	1173	1248	1328	1408	1488	1569	1661	1748	1834
-65°	951	1013	1075	1136	1204	1272	1340	1402	1470	1550	1618
-67.5°	871	926	976	1031	1081	1136	1192	1248	1303	1365	1427
-70°	797	834	883	926	963	1001	1044	1093	1143	1198	1248
-72.5°	716	747	784	828	846	858	889	926	976	1031	1081
-75°	618	661	679	704	716	710	710	723	772	840	902
-77.5°	506	537	562	587	581	574	562	550	593	649	704
-80°	395	420	445	463	463	445	426	401	445	500	556
-82.5°	303	321	334	346	346	334	321	303	340	377	420
-85°	204	222	229	241	235	222	216	204	229	253	284
-87.5°	105	111	117	117	117	111	105	99	111	124	136
-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°	154	154	154	154	148	154	154	161	167	148	130
85°	309	315	315	315	315	315	315	315	315	284	253
82.5°	463	482	494	513	525	525	519	513	500	451	395
80°	611	642	661	679	698	692	686	673	667	605	544
77.5°	760	797	821	840	858	865	858	858	852	797	729
75°	951	982	1007	1031	1056	1068	1075	1075	1075	1025	963
72.5°	1124	1161	1198	1235	1266	1285	1303	1316	1328	1303	1266
70°	1303	1346	1390	1433	1476	1507	1532	1556	1569	1575	1575
67.5°	1488	1544	1600	1655	1705	1748	1779	1810	1834	1859	1871
65°	1692	1766	1834	1896	1952	2007	2050	2094	2131	2162	2180
62.5°	1921	2007	2087	2168	2230	2297	2365	2427	2477	2520	2551
60°	2174	2279	2378	2477	2575	2656	2742	2816	2878	2934	2983
57.5°	2458	2588	2711	2841	2952	3057	3162	3267	3360	3434	3496
55°	2773	2934	3094	3249	3403	3545	3681	3817	3940	4039	4126
52.5°	3137	3329	3533	3724	3934	4119	4292	4478	4644	4793	4916
50°	3526	3774	4039	4286	4558	4817	5052	5287	5521	5725	5892
47.5°	3983	4280	4626	4965	5299	5651	5978	6287	6608	6880	7108
45°	4478	4891	5299	5756	6176	6651	7102	7553	7948	8344	8677
42.5°	5064	5583	6102	6689	7263	7862	8498	9066	9659	10240	10721
40°	5762	6374	7090	7794	8591	9344	10246	11042	11796	12531	13155
37.5°	6528	7337	8220	9116	10196	11259	12315	13315	14211	15032	15687
35°	7411	8430	9480	10783	12068	13365	14575	15711	16730	17564	18256
32.5°	8424	9628	11080	12593	14081	15520	16965	18089	19151	20102	20918
30°	9499	11067	12759	14452	16076	17638	19096	20448	21683	22752	23666
27.5°	10758	12574	14458	16273	18015	19701	21356	22900	24253	25377	26513
25°	12006	14087	16101	18021	19905	21788	23610	25346	26927	28304	29533
22.5°	13321	15495	17620	19658	21795	23845	25840	27816	29632	31219	32602
20°	14538	16873	19040	21313	23629	25852	28094	30231	32257	34171	35746
17.5°	15625	18003	20368	22764	25290	27810	30243	32559	34869	37098	39062
15°	16595	19090	21517	24129	26853	29564	32275	34826	37426	39896	42095
12.5°	17453	20028	22610	25389	28236	31058	34029	36993	39878	42539	44923
10°	18163	20837	23604	26482	29440	32423	35622	38914	42002	44831	47424
7.5°	18701	21449	24339	27328	30447	33640	36981	40335	43602	46640	49358
5°	19083	21856	24827	27878	31126	34461	38025	41601	44936	48079	50858
2.5°	19429	22221	25247	28181	31491	34949	38519	42224	45633	48863	51958
0°	19522	22369	25426	28440	31658	35128	38766	42385	45881	49388	52297
-2.5°	19429	22221	25247	28181	31491	34949	38519	42224	45633	48863	51958
-5°	19083	21856	24827	27878	31126	34461	38025	41601	44936	48079	50858
-7.5°	18701	21449	24339	27328	30447	33640	36981	40335	43602	46640	49358
-10°	18163	20837	23604	26482	29440	32423	35622	38914	42002	44831	47424
-12.5°	17453	20028	22610	25389	28236	31058	34029	36993	39878	42539	44923
-15°	16595	19090	21517	24129	26853	29564	32275	34826	37426	39896	42095
-17.5°	15625	18003	20368	22764	25290	27810	30243	32559	34869	37098	39062
-20°	14538	16873	19040	21313	23629	25852	28094	30231	32257	34171	35746



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13321	15495	17620	19658	21795	23845	25840	27816	29632	31219	32602
-25°	12006	14087	16101	18021	19905	21788	23610	25346	26927	28304	29533
-27.5°	10758	12574	14458	16273	18015	19701	21356	22900	24253	25377	26513
-30°	9499	11067	12759	14452	16076	17638	19096	20448	21683	22752	23666
-32.5°	8424	9628	11080	12593	14081	15520	16965	18089	19151	20102	20918
-35°	7411	8430	9480	10783	12068	13365	14575	15711	16730	17564	18256
-37.5°	6528	7337	8220	9116	10196	11259	12315	13315	14211	15032	15687
-40°	5762	6374	7090	7794	8591	9344	10246	11042	11796	12531	13155
-42.5°	5064	5583	6102	6689	7263	7862	8498	9066	9659	10240	10721
-45°	4478	4891	5299	5756	6176	6651	7102	7553	7948	8344	8677
-47.5°	3983	4280	4626	4965	5299	5651	5978	6287	6608	6880	7108
-50°	3526	3774	4039	4286	4558	4817	5052	5287	5521	5725	5892
-52.5°	3137	3329	3533	3724	3934	4119	4292	4478	4644	4793	4916
-55°	2773	2934	3094	3249	3403	3545	3681	3817	3940	4039	4126
-57.5°	2458	2588	2711	2841	2952	3057	3162	3267	3360	3434	3496
-60°	2174	2279	2378	2477	2575	2656	2742	2816	2878	2934	2983
-62.5°	1921	2007	2087	2168	2230	2297	2365	2427	2477	2520	2551
-65°	1692	1766	1834	1896	1952	2007	2050	2094	2131	2162	2180
-67.5°	1488	1544	1600	1655	1705	1748	1779	1810	1834	1859	1871
-70°	1303	1346	1390	1433	1476	1507	1532	1556	1569	1575	1575
-72.5°	1124	1161	1198	1235	1266	1285	1303	1316	1328	1303	1266
-75°	951	982	1007	1031	1056	1068	1075	1075	1075	1025	963
-77.5°	760	797	821	840	858	865	858	858	852	797	729
-80°	611	642	661	679	698	692	686	673	667	605	544
-82.5°	463	482	494	513	525	525	519	513	500	451	395
-85°	309	315	315	315	315	315	315	315	315	284	253
-87.5°	154	154	154	154	148	154	154	161	167	148	130
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P621398  
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**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°	105	87	80	68	80	87	105	130	148	167	161
85°	216	179	173	161	173	179	216	253	284	315	315
82.5°	346	284	272	259	272	284	346	395	451	500	513
80°	488	414	401	389	401	414	488	544	605	667	673
77.5°	661	593	568	550	568	593	661	729	797	852	858
75°	896	828	809	791	809	828	896	963	1025	1075	1075
72.5°	1223	1192	1143	1099	1143	1192	1223	1266	1303	1328	1316
70°	1581	1593	1581	1563	1581	1593	1581	1575	1575	1569	1556
67.5°	1878	1890	1890	1896	1890	1890	1878	1871	1859	1834	1810
65°	2199	2205	2223	2230	2223	2205	2199	2180	2162	2131	2094
62.5°	2569	2588	2600	2600	2600	2588	2569	2551	2520	2477	2427
60°	3014	3039	3069	3076	3069	3039	3014	2983	2934	2878	2816
57.5°	3545	3576	3619	3631	3619	3576	3545	3496	3434	3360	3267
55°	4187	4231	4255	4243	4255	4231	4187	4126	4039	3940	3817
52.5°	5021	5095	5145	5120	5145	5095	5021	4916	4793	4644	4478
50°	6028	6120	6182	6164	6182	6120	6028	5892	5725	5521	5287
47.5°	7288	7417	7522	7528	7522	7417	7288	7108	6880	6608	6287
45°	8943	9134	9276	9251	9276	9134	8943	8677	8344	7948	7553
42.5°	11092	11357	11567	11549	11567	11357	11092	10721	10240	9659	9066
40°	13618	13945	14223	14297	14223	13945	13618	13155	12531	11796	11042
37.5°	16218	16638	16990	16953	16990	16638	16218	15687	15032	14211	13315
35°	18830	19269	19615	19645	19615	19269	18830	18256	17564	16730	15711
32.5°	21566	22054	22462	22517	22462	22054	21566	20918	20102	19151	18089
30°	24419	25006	25494	25593	25494	25006	24419	23666	22752	21683	20448
27.5°	27421	28119	28582	28761	28582	28119	27421	26513	25377	24253	22900
25°	30515	31275	31793	32084	31793	31275	30515	29533	28304	26927	25346
22.5°	33745	34647	35320	35641	35320	34647	33745	32602	31219	29632	27816
20°	37080	38062	38846	39180	38846	38062	37080	35746	34171	32257	30231
17.5°	40477	41675	42546	42972	42546	41675	40477	39062	37098	34869	32559
15°	43775	45047	45992	46449	45992	45047	43775	42095	39896	37426	34826
12.5°	46832	48178	49123	49784	49123	48178	46832	44923	42539	39878	36993
10°	49561	51031	51988	52674	51988	51031	49561	47424	44831	42002	38914
7.5°	51606	53464	54545	55218	54545	53464	51606	49358	46640	43602	40335
5°	53174	55225	56207	56843	56207	55225	53174	50858	48079	44936	41601
2.5°	54323	55941	57170	57806	57170	55941	54323	51958	48863	45633	42224
0°	54774	56676	57547	57960	57547	56676	54774	52297	49388	45881	42385
-2.5°	54323	55941	57170	57806	57170	55941	54323	51958	48863	45633	42224
-5°	53174	55225	56207	56843	56207	55225	53174	50858	48079	44936	41601
-7.5°	51606	53464	54545	55218	54545	53464	51606	49358	46640	43602	40335
-10°	49561	51031	51988	52674	51988	51031	49561	47424	44831	42002	38914
-12.5°	46832	48178	49123	49784	49123	48178	46832	44923	42539	39878	36993
-15°	43775	45047	45992	46449	45992	45047	43775	42095	39896	37426	34826
-17.5°	40477	41675	42546	42972	42546	41675	40477	39062	37098	34869	32559
-20°	37080	38062	38846	39180	38846	38062	37080	35746	34171	32257	30231



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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°	33745	34647	35320	35641	35320	34647	33745	32602	31219	29632	27816
-25°	30515	31275	31793	32084	31793	31275	30515	29533	28304	26927	25346
-27.5°	27421	28119	28582	28761	28582	28119	27421	26513	25377	24253	22900
-30°	24419	25006	25494	25593	25494	25006	24419	23666	22752	21683	20448
-32.5°	21566	22054	22462	22517	22462	22054	21566	20918	20102	19151	18089
-35°	18830	19269	19615	19645	19615	19269	18830	18256	17564	16730	15711
-37.5°	16218	16638	16990	16953	16990	16638	16218	15687	15032	14211	13315
-40°	13618	13945	14223	14297	14223	13945	13618	13155	12531	11796	11042
-42.5°	11092	11357	11567	11549	11567	11357	11092	10721	10240	9659	9066
-45°	8943	9134	9276	9251	9276	9134	8943	8677	8344	7948	7553
-47.5°	7288	7417	7522	7528	7522	7417	7288	7108	6880	6608	6287
-50°	6028	6120	6182	6164	6182	6120	6028	5892	5725	5521	5287
-52.5°	5021	5095	5145	5120	5145	5095	5021	4916	4793	4644	4478
-55°	4187	4231	4255	4243	4255	4231	4187	4126	4039	3940	3817
-57.5°	3545	3576	3619	3631	3619	3576	3545	3496	3434	3360	3267
-60°	3014	3039	3069	3076	3069	3039	3014	2983	2934	2878	2816
-62.5°	2569	2588	2600	2600	2600	2588	2569	2551	2520	2477	2427
-65°	2199	2205	2223	2230	2223	2205	2199	2180	2162	2131	2094
-67.5°	1878	1890	1890	1896	1890	1890	1878	1871	1859	1834	1810
-70°	1581	1593	1581	1563	1581	1593	1581	1575	1575	1569	1556
-72.5°	1223	1192	1143	1099	1143	1192	1223	1266	1303	1328	1316
-75°	896	828	809	791	809	828	896	963	1025	1075	1075
-77.5°	661	593	568	550	568	593	661	729	797	852	858
-80°	488	414	401	389	401	414	488	544	605	667	673
-82.5°	346	284	272	259	272	284	346	395	451	500	513
-85°	216	179	173	161	173	179	216	253	284	315	315
-87.5°	105	87	80	68	80	87	105	130	148	167	161
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P621398  
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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	154	154	148	154	154	154	154	136	124	111	99
85°	315	315	315	315	315	315	309	284	253	229	204
82.5°	519	525	525	513	494	482	463	420	377	340	303
80°	686	692	698	679	661	642	611	556	500	445	401
77.5°	858	865	858	840	821	797	760	704	649	593	550
75°	1075	1068	1056	1031	1007	982	951	902	840	772	723
72.5°	1303	1285	1266	1235	1198	1161	1124	1081	1031	976	926
70°	1532	1507	1476	1433	1390	1346	1303	1248	1198	1143	1093
67.5°	1779	1748	1705	1655	1600	1544	1488	1427	1365	1303	1248
65°	2050	2007	1952	1896	1834	1766	1692	1618	1550	1470	1402
62.5°	2365	2297	2230	2168	2087	2007	1921	1834	1748	1661	1569
60°	2742	2656	2575	2477	2378	2279	2174	2069	1958	1859	1748
57.5°	3162	3057	2952	2841	2711	2588	2458	2322	2199	2069	1939
55°	3681	3545	3403	3249	3094	2934	2773	2612	2458	2291	2149
52.5°	4292	4119	3934	3724	3533	3329	3137	2934	2742	2551	2365
50°	5052	4817	4558	4286	4039	3774	3526	3286	3051	2829	2606
47.5°	5978	5651	5299	4965	4626	4280	3983	3693	3397	3119	2872
45°	7102	6651	6176	5756	5299	4891	4478	4119	3774	3459	3144
42.5°	8498	7862	7263	6689	6102	5583	5064	4620	4200	3811	3459
40°	10246	9344	8591	7794	7090	6374	5762	5188	4669	4206	3774
37.5°	12315	11259	10196	9116	8220	7337	6528	5818	5194	4632	4132
35°	14575	13365	12068	10783	9480	8430	7411	6522	5762	5083	4502
32.5°	16965	15520	14081	12593	11080	9628	8424	7318	6367	5589	4904
30°	19096	17638	16076	14452	12759	11067	9499	8214	7084	6102	5311
27.5°	21356	19701	18015	16273	14458	12574	10758	9122	7800	6695	5762
25°	23610	21788	19905	18021	16101	14087	12006	10159	8591	7281	6164
22.5°	25840	23845	21795	19658	17620	15495	13321	11166	9319	7862	6633
20°	28094	25852	23629	21313	19040	16873	14538	12228	10178	8461	7065
17.5°	30243	27810	25290	22764	20368	18003	15625	13253	10968	9004	7498
15°	32275	29564	26853	24129	21517	19090	16595	14143	11716	9579	7874
12.5°	34029	31058	28236	25389	22610	20028	17453	14915	12420	10135	8257
10°	35622	32423	29440	26482	23604	20837	18163	15557	12994	10585	8566
7.5°	36981	33640	30447	27328	24339	21449	18701	16051	13439	10931	8807
5°	38025	34461	31126	27878	24827	21856	19083	16403	13754	11178	8961
2.5°	38519	34949	31491	28181	25247	22221	19429	16718	14019	11413	9128
0°	38766	35128	31658	28440	25426	22369	19522	16761	14013	11444	9140
-2.5°	38519	34949	31491	28181	25247	22221	19429	16718	14019	11413	9128
-5°	38025	34461	31126	27878	24827	21856	19083	16403	13754	11178	8961
-7.5°	36981	33640	30447	27328	24339	21449	18701	16051	13439	10931	8807
-10°	35622	32423	29440	26482	23604	20837	18163	15557	12994	10585	8566
-12.5°	34029	31058	28236	25389	22610	20028	17453	14915	12420	10135	8257
-15°	32275	29564	26853	24129	21517	19090	16595	14143	11716	9579	7874
-17.5°	30243	27810	25290	22764	20368	18003	15625	13253	10968	9004	7498
-20°	28094	25852	23629	21313	19040	16873	14538	12228	10178	8461	7065



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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°	25840	23845	21795	19658	17620	15495	13321	11166	9319	7862	6633
-25°	23610	21788	19905	18021	16101	14087	12006	10159	8591	7281	6164
-27.5°	21356	19701	18015	16273	14458	12574	10758	9122	7800	6695	5762
-30°	19096	17638	16076	14452	12759	11067	9499	8214	7084	6102	5311
-32.5°	16965	15520	14081	12593	11080	9628	8424	7318	6367	5589	4904
-35°	14575	13365	12068	10783	9480	8430	7411	6522	5762	5083	4502
-37.5°	12315	11259	10196	9116	8220	7337	6528	5818	5194	4632	4132
-40°	10246	9344	8591	7794	7090	6374	5762	5188	4669	4206	3774
-42.5°	8498	7862	7263	6689	6102	5583	5064	4620	4200	3811	3459
-45°	7102	6651	6176	5756	5299	4891	4478	4119	3774	3459	3144
-47.5°	5978	5651	5299	4965	4626	4280	3983	3693	3397	3119	2872
-50°	5052	4817	4558	4286	4039	3774	3526	3286	3051	2829	2606
-52.5°	4292	4119	3934	3724	3533	3329	3137	2934	2742	2551	2365
-55°	3681	3545	3403	3249	3094	2934	2773	2612	2458	2291	2149
-57.5°	3162	3057	2952	2841	2711	2588	2458	2322	2199	2069	1939
-60°	2742	2656	2575	2477	2378	2279	2174	2069	1958	1859	1748
-62.5°	2365	2297	2230	2168	2087	2007	1921	1834	1748	1661	1569
-65°	2050	2007	1952	1896	1834	1766	1692	1618	1550	1470	1402
-67.5°	1779	1748	1705	1655	1600	1544	1488	1427	1365	1303	1248
-70°	1532	1507	1476	1433	1390	1346	1303	1248	1198	1143	1093
-72.5°	1303	1285	1266	1235	1198	1161	1124	1081	1031	976	926
-75°	1075	1068	1056	1031	1007	982	951	902	840	772	723
-77.5°	858	865	858	840	821	797	760	704	649	593	550
-80°	686	692	698	679	661	642	611	556	500	445	401
-82.5°	519	525	525	513	494	482	463	420	377	340	303
-85°	315	315	315	315	315	315	309	284	253	229	204
-87.5°	154	154	148	154	154	154	154	136	124	111	99
-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°	105	111	117	117	117	111	105	99	87	80	74
85°	216	222	235	241	229	222	204	192	179	161	148
82.5°	321	334	346	346	334	321	303	284	266	241	216
80°	426	445	463	463	445	420	395	371	346	315	284
77.5°	562	574	581	587	562	537	506	463	426	389	352
75°	710	710	716	704	679	661	618	568	513	463	414
72.5°	889	858	846	828	784	747	716	673	599	531	476
70°	1044	1001	963	926	883	834	797	741	679	599	531
67.5°	1192	1136	1081	1031	976	926	871	803	735	661	587
65°	1340	1272	1204	1136	1075	1013	951	871	791	716	636
62.5°	1488	1408	1328	1248	1173	1099	1031	939	846	766	679
60°	1643	1556	1464	1371	1278	1192	1106	1007	908	809	723
57.5°	1822	1698	1593	1488	1383	1285	1180	1075	970	865	760
55°	2001	1865	1729	1612	1495	1383	1260	1143	1025	914	797
52.5°	2192	2032	1884	1735	1606	1476	1346	1223	1087	963	821
50°	2402	2211	2038	1871	1717	1575	1433	1291	1149	1013	852
47.5°	2625	2402	2199	2007	1840	1668	1513	1365	1211	1068	883
45°	2872	2606	2365	2155	1952	1766	1600	1433	1272	1106	902
42.5°	3113	2822	2551	2291	2075	1865	1686	1507	1334	1136	933
40°	3397	3039	2736	2458	2199	1964	1760	1575	1396	1173	957
37.5°	3693	3279	2927	2606	2322	2069	1847	1637	1439	1211	982
35°	3990	3526	3119	2761	2452	2174	1927	1705	1482	1241	1007
32.5°	4298	3774	3310	2915	2575	2279	2007	1766	1532	1278	1025
30°	4638	4033	3508	3063	2693	2372	2087	1828	1581	1309	1044
27.5°	4959	4274	3699	3224	2816	2470	2162	1890	1637	1340	1068
25°	5280	4533	3903	3372	2934	2557	2236	1945	1686	1377	1087
22.5°	5626	4786	4088	3514	3039	2643	2304	2007	1729	1414	1106
20°	5941	5015	4249	3650	3150	2730	2372	2057	1766	1451	1124
17.5°	6231	5250	4447	3792	3255	2810	2427	2100	1803	1482	1136
15°	6546	5484	4620	3916	3347	2878	2483	2143	1834	1513	1143
12.5°	6818	5682	4768	4027	3428	2934	2526	2174	1865	1544	1155
10°	7041	5842	4891	4113	3489	2983	2557	2205	1884	1563	1161
7.5°	7213	5966	4984	4181	3539	3020	2588	2223	1902	1581	1161
5°	7343	6059	5046	4231	3576	3051	2612	2242	1921	1606	1167
2.5°	7460	6157	5095	4274	3607	3076	2631	2254	1921	1600	1155
0°	7479	6176	5089	4274	3607	3082	2631	2254	1915	1593	1143
-2.5°	7460	6157	5095	4274	3607	3076	2631	2254	1921	1600	1155
-5°	7343	6059	5046	4231	3576	3051	2612	2242	1921	1606	1167
-7.5°	7213	5966	4984	4181	3539	3020	2588	2223	1902	1581	1161
-10°	7041	5842	4891	4113	3489	2983	2557	2205	1884	1563	1161
-12.5°	6818	5682	4768	4027	3428	2934	2526	2174	1865	1544	1155
-15°	6546	5484	4620	3916	3347	2878	2483	2143	1834	1513	1143
-17.5°	6231	5250	4447	3792	3255	2810	2427	2100	1803	1482	1136
-20°	5941	5015	4249	3650	3150	2730	2372	2057	1766	1451	1124



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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°	5626	4786	4088	3514	3039	2643	2304	2007	1729	1414	1106
-25°	5280	4533	3903	3372	2934	2557	2236	1945	1686	1377	1087
-27.5°	4959	4274	3699	3224	2816	2470	2162	1890	1637	1340	1068
-30°	4638	4033	3508	3063	2693	2372	2087	1828	1581	1309	1044
-32.5°	4298	3774	3310	2915	2575	2279	2007	1766	1532	1278	1025
-35°	3990	3526	3119	2761	2452	2174	1927	1705	1482	1241	1007
-37.5°	3693	3279	2927	2606	2322	2069	1847	1637	1439	1211	982
-40°	3397	3039	2736	2458	2199	1964	1760	1575	1396	1173	957
-42.5°	3113	2822	2551	2291	2075	1865	1686	1507	1334	1136	933
-45°	2872	2606	2365	2155	1952	1766	1600	1433	1272	1106	902
-47.5°	2625	2402	2199	2007	1840	1668	1513	1365	1211	1068	883
-50°	2402	2211	2038	1871	1717	1575	1433	1291	1149	1013	852
-52.5°	2192	2032	1884	1735	1606	1476	1346	1223	1087	963	821
-55°	2001	1865	1729	1612	1495	1383	1260	1143	1025	914	797
-57.5°	1822	1698	1593	1488	1383	1285	1180	1075	970	865	760
-60°	1643	1556	1464	1371	1278	1192	1106	1007	908	809	723
-62.5°	1488	1408	1328	1248	1173	1099	1031	939	846	766	679
-65°	1340	1272	1204	1136	1075	1013	951	871	791	716	636
-67.5°	1192	1136	1081	1031	976	926	871	803	735	661	587
-70°	1044	1001	963	926	883	834	797	741	679	599	531
-72.5°	889	858	846	828	784	747	716	673	599	531	476
-75°	710	710	716	704	679	661	618	568	513	463	414
-77.5°	562	574	581	587	562	537	506	463	426	389	352
-80°	426	445	463	463	445	420	395	371	346	315	284
-82.5°	321	334	346	346	334	321	303	284	266	241	216
-85°	216	222	235	241	229	222	204	192	179	161	148
-87.5°	105	111	117	117	117	111	105	99	87	80	74
-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°	62	49	37	25	12	6	0
85°	130	99	68	43	25	12	0
82.5°	192	142	105	68	43	19	0
80°	253	192	136	93	56	25	0
77.5°	309	235	173	111	68	31	0
75°	358	272	204	136	80	37	0
72.5°	408	309	229	154	93	43	0
70°	457	346	253	179	105	49	0
67.5°	494	377	278	192	117	56	0
65°	525	408	296	204	130	56	0
62.5°	556	432	315	216	142	62	0
60°	593	457	340	229	148	68	0
57.5°	618	476	352	241	154	74	0
55°	642	500	364	253	167	80	0
52.5°	667	519	383	259	173	80	0
50°	686	537	395	266	179	87	0
47.5°	710	550	401	272	185	93	0
45°	729	568	414	278	192	93	0
42.5°	747	581	420	284	192	99	0
40°	766	587	432	296	198	105	0
37.5°	778	599	439	303	204	105	0
35°	784	605	445	309	210	111	0
32.5°	797	618	451	321	210	111	0
30°	815	618	451	327	216	111	0
27.5°	828	624	463	327	216	117	0
25°	834	624	469	334	222	117	0
22.5°	840	630	476	340	222	117	0
20°	846	636	482	346	229	124	0
17.5°	852	649	488	346	229	124	0
15°	865	655	488	346	229	130	0
12.5°	871	655	488	352	229	130	0
10°	877	661	488	352	235	124	0
7.5°	877	661	494	352	235	124	0
5°	877	667	488	352	229	124	0
2.5°	865	667	488	346	229	124	0
0°	858	661	482	346	229	124	0
-2.5°	865	667	488	346	229	124	0
-5°	877	667	488	352	229	124	0
-7.5°	877	661	494	352	235	124	0
-10°	877	661	488	352	235	124	0
-12.5°	871	655	488	352	229	130	0
-15°	865	655	488	346	229	130	0
-17.5°	852	649	488	346	229	124	0
-20°	846	636	482	346	229	124	0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	840	630	476	340	222	117	0
-25°	834	624	469	334	222	117	0
-27.5°	828	624	463	327	216	117	0
-30°	815	618	451	327	216	111	0
-32.5°	797	618	451	321	210	111	0
-35°	784	605	445	309	210	111	0
-37.5°	778	599	439	303	204	105	0
-40°	766	587	432	296	198	105	0
-42.5°	747	581	420	284	192	99	0
-45°	729	568	414	278	192	93	0
-47.5°	710	550	401	272	185	93	0
-50°	686	537	395	266	179	87	0
-52.5°	667	519	383	259	173	80	0
-55°	642	500	364	253	167	80	0
-57.5°	618	476	352	241	154	74	0
-60°	593	457	340	229	148	68	0
-62.5°	556	432	315	216	142	62	0
-65°	525	408	296	204	130	56	0
-67.5°	494	377	278	192	117	56	0
-70°	457	346	253	179	105	49	0
-72.5°	408	309	229	154	93	43	0
-75°	358	272	204	136	80	37	0
-77.5°	309	235	173	111	68	31	0
-80°	253	192	136	93	56	25	0
-82.5°	192	142	105	68	43	19	0
-85°	130	99	68	43	25	12	0
-87.5°	62	49	37	25	12	6	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)