

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: P621390

Luminaire Tested: **EPH-VN-04-E-750-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P621390
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-750-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

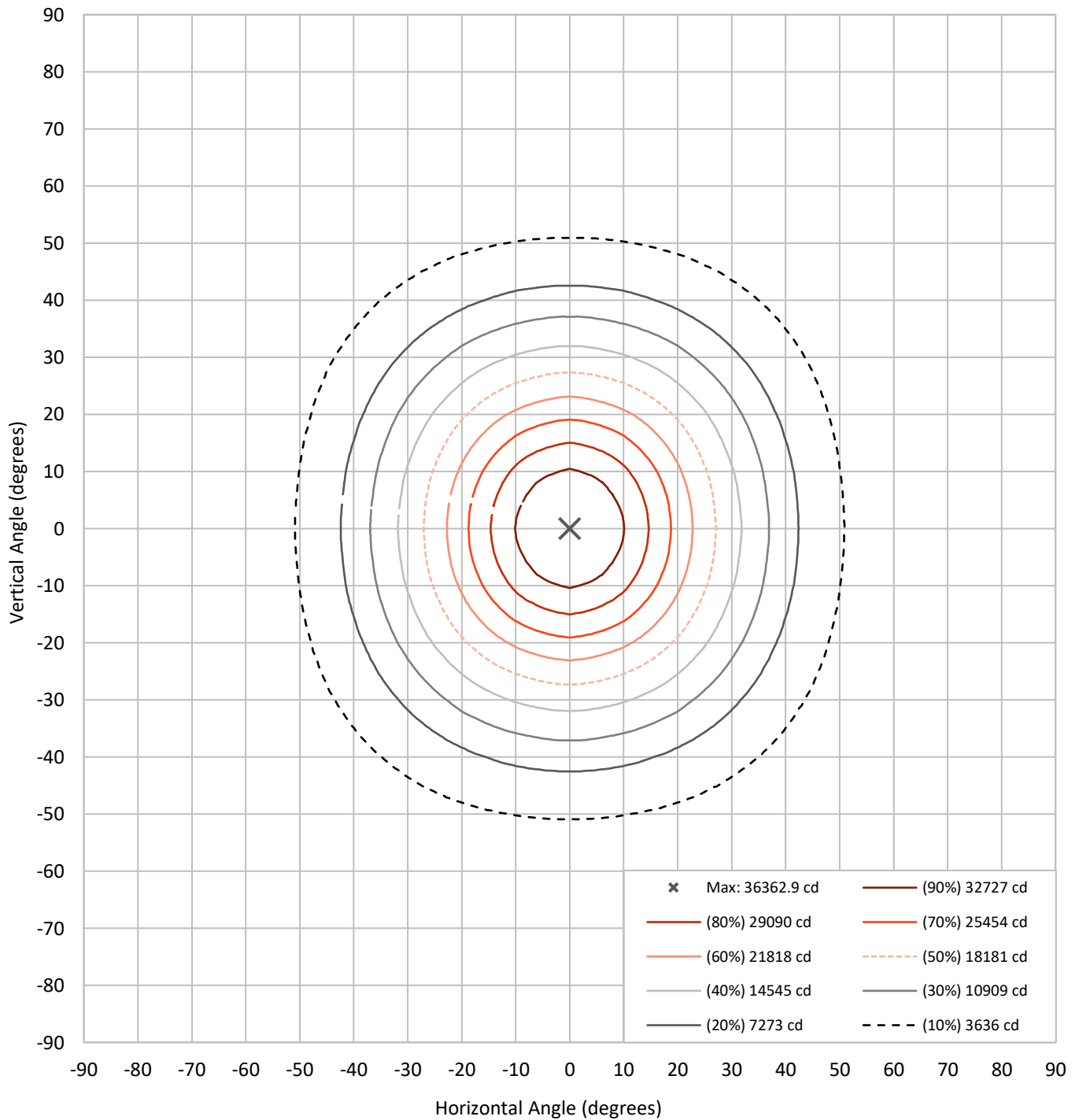
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	37714.3 lumens	Max Intensity:	36362.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	124.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	18133.2 lumens	Field Lumens:	33098 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%

Input Watts (W): 303.8
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





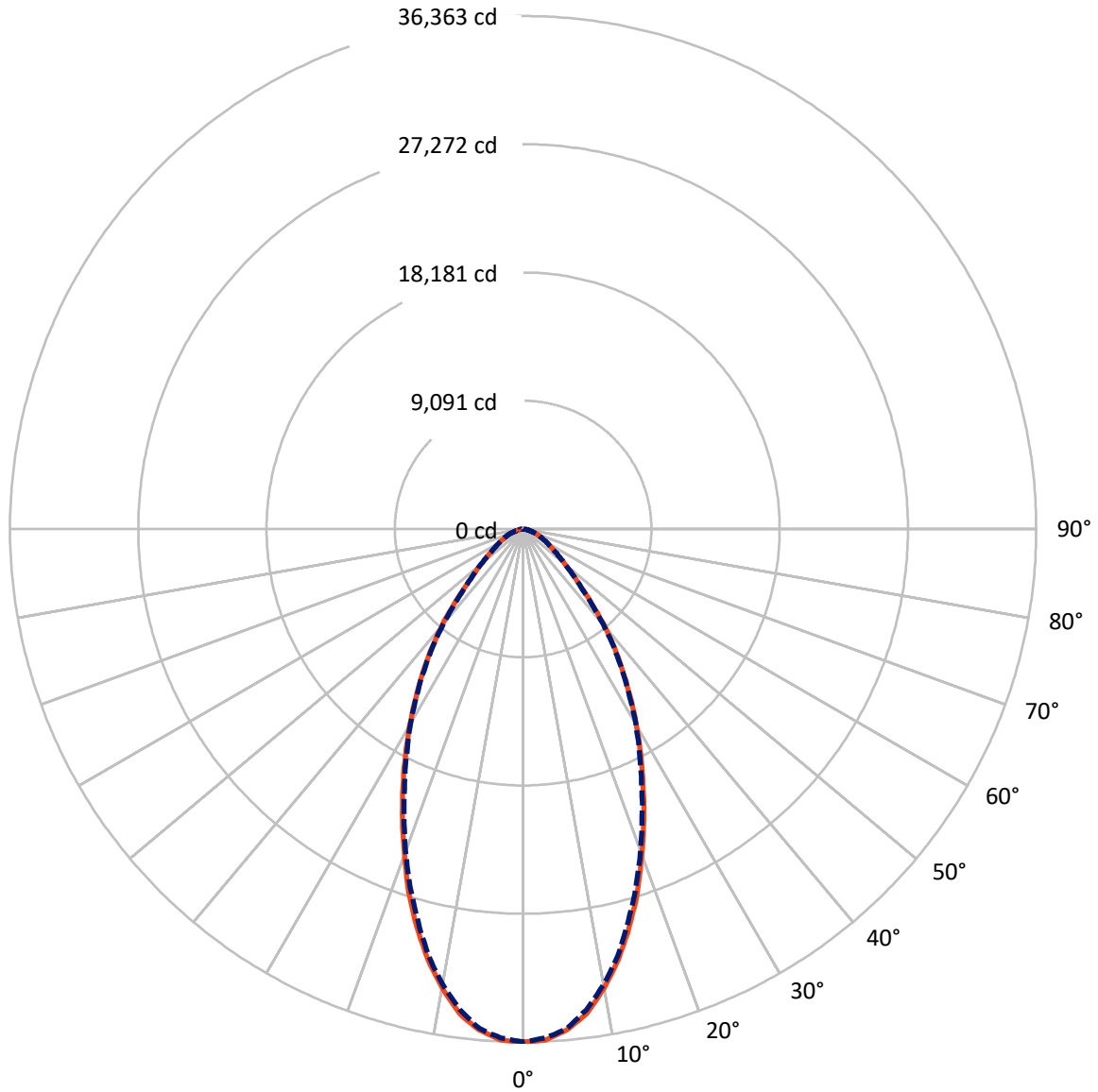
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Lumen Table

90																			
80	2.6	16.2		32.6		49.6		42.6		49.6		32.6		16.2		2.6			
70																			
60	6.7	7.1	12.6	19.1	26.7	34.2	39.9	42.7	42.7	39.9	34.2	26.7	19.1	12.6	7.1	6.7			
50		9.4	17.8	29.3	43.9	59.9	74.2	82.8	82.8	74.2	59.9	43.9	29.3	17.8	9.4				
40	8.9	11.7	23.9	43.2	71.6	109.9	151.3	179.4	179.4	151.3	109.9	71.6	43.2	23.9	11.7	8.9			
30		14.0	30.9	62.2	119.2	210.9	306.7	366.2	366.2	306.7	210.9	119.2	62.2	30.9	14.0				
20	10.3	16.1	38.0	86.1	190.8	344.3	494.6	593.6	593.6	494.6	344.3	190.8	86.1	38.0	16.1	10.3			
10		17.7	44.4	110.8	259.9	463.7	686.6	847.8	847.8	686.6	463.7	259.9	110.8	44.4	17.7				
0	10.8	18.6	48.2	127.1	300.0	537.8	819.0	1029.3	1029.3	819.0	537.8	300.0	127.1	48.2	18.6	10.8			
-10		18.6	48.2	127.1	300.0	537.8	819.0	1029.3	1029.3	819.0	537.8	300.0	127.1	48.2	18.6				
-20	10.3	17.7	44.4	110.8	259.9	463.7	686.6	847.8	847.8	686.6	463.7	259.9	110.8	44.4	17.7	10.3			
-30		16.1	38.0	86.1	190.8	344.3	494.6	593.6	593.6	494.6	344.3	190.8	86.1	38.0	16.1				
-40	8.9	14.0	30.9	62.2	119.2	210.9	306.7	366.2	366.2	306.7	210.9	119.2	62.2	30.9	14.0	8.9			
-50		11.7	23.9	43.2	71.6	109.9	151.3	179.4	179.4	151.3	109.9	71.6	43.2	23.9	11.7				
-60	6.7	9.4	17.8	29.3	43.9	59.9	74.2	82.8	82.8	74.2	59.9	43.9	29.3	17.8	9.4	6.7			
-70		7.1	12.6	19.1	26.7	34.2	39.9	42.7	42.7	39.9	34.2	26.7	19.1	12.6	7.1				
-80																			
-90	2.6	16.2		32.6		49.6		42.6		49.6		32.6		16.2		2.6			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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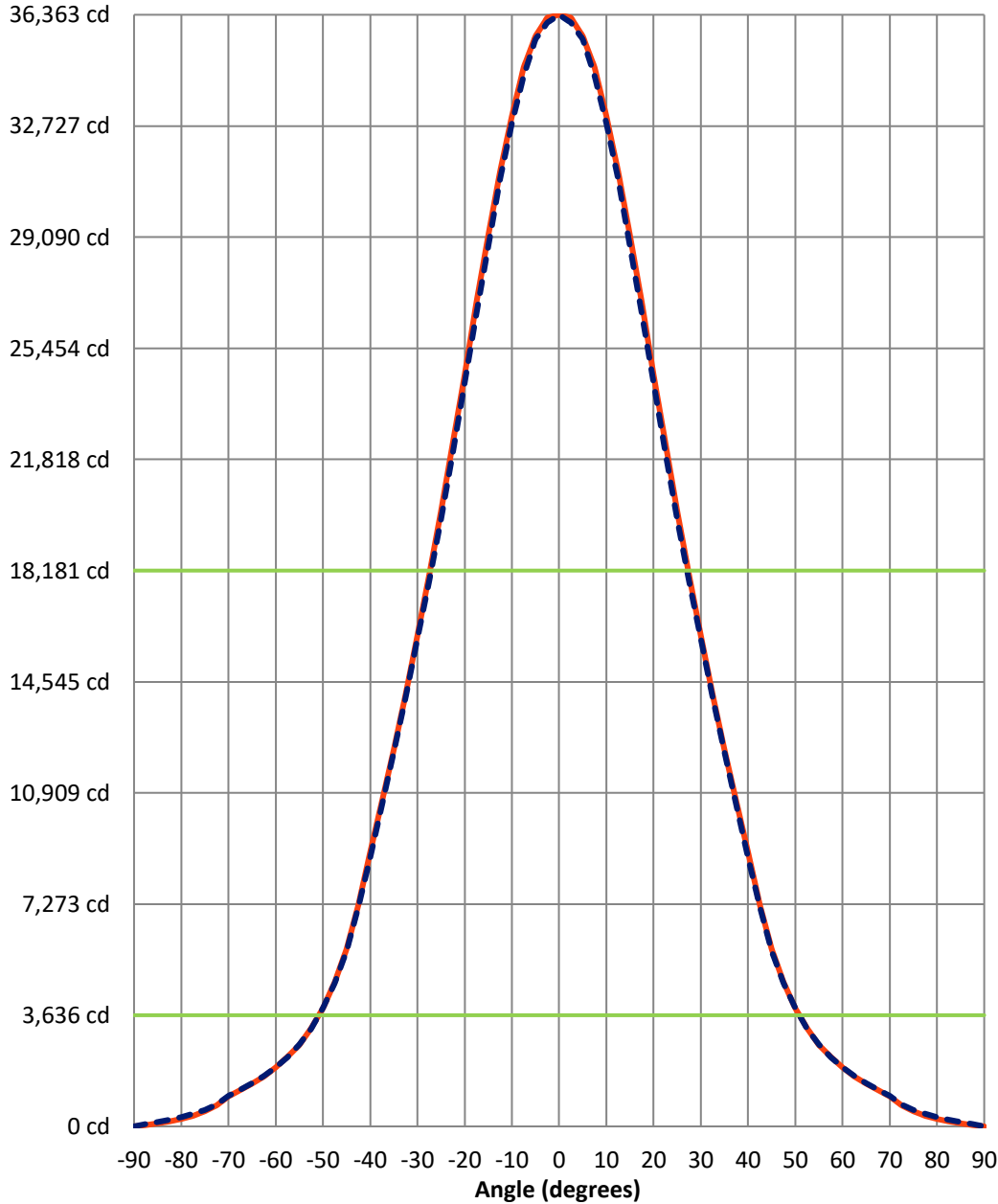
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
H Angle: 54.2°
V Angle: 54.7°
Lumens: 18133.2
Efficiency: 48.1%

Field:
H Angle: 101.7°
V Angle: 101.8°
Lumens: 33098
Efficiency: 87.8%

Spill:
Lumens: 4616.3
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	4	8	16	23	31	39	47	50	54	62
85°	0	8	16	27	43	62	81	93	101	112	120
82.5°	0	12	27	43	66	89	120	136	151	167	178
80°	0	16	35	58	85	120	159	178	198	217	233
77.5°	0	19	43	70	109	147	194	221	244	267	291
75°	0	23	50	85	128	171	225	260	291	322	357
72.5°	0	27	58	97	143	194	256	298	333	376	422
70°	0	31	66	112	159	217	287	333	376	426	465
67.5°	0	35	74	120	174	236	310	368	415	461	504
65°	0	35	81	128	186	256	329	399	450	496	546
62.5°	0	39	89	136	198	271	349	426	480	531	589
60°	0	43	93	143	213	287	372	453	508	570	632
57.5°	0	47	97	151	221	298	388	477	542	608	674
55°	0	50	105	159	229	314	403	500	573	643	717
52.5°	0	50	109	163	240	326	419	515	604	682	767
50°	0	54	112	167	248	337	430	535	635	721	810
47.5°	0	58	116	171	252	345	446	554	670	759	856
45°	0	58	120	174	260	357	457	566	694	798	899
42.5°	0	62	120	178	264	364	469	585	713	837	945
40°	0	66	124	186	271	368	480	601	736	876	988
37.5°	0	66	128	190	275	376	488	616	759	903	1027
35°	0	70	132	194	279	380	492	632	779	930	1069
32.5°	0	70	132	202	283	388	500	643	802	961	1108
30°	0	70	136	205	283	388	511	655	821	992	1147
27.5°	0	74	136	205	291	391	519	670	841	1027	1186
25°	0	74	140	209	295	391	523	682	864	1058	1221
22.5°	0	74	140	213	298	395	527	694	887	1085	1259
20°	0	78	143	217	302	399	531	705	911	1108	1290
17.5°	0	78	143	217	306	407	535	713	930	1131	1317
15°	0	81	143	217	306	411	542	717	949	1151	1345
12.5°	0	81	143	221	306	411	546	725	969	1170	1364
10°	0	78	147	221	306	415	550	728	980	1182	1383
7.5°	0	78	147	221	310	415	550	728	992	1193	1395
5°	0	78	143	221	306	419	550	732	1007	1205	1407
2.5°	0	78	143	217	306	419	542	725	1004	1205	1414
0°	0	78	143	217	302	415	539	717	1000	1201	1414
-2.5°	0	78	143	217	306	419	542	725	1004	1205	1414
-5°	0	78	143	221	306	419	550	732	1007	1205	1407
-7.5°	0	78	147	221	310	415	550	728	992	1193	1395
-10°	0	78	147	221	306	415	550	728	980	1182	1383
-12.5°	0	81	143	221	306	411	546	725	969	1170	1364
-15°	0	81	143	217	306	411	542	717	949	1151	1345
-17.5°	0	78	143	217	306	407	535	713	930	1131	1317
-20°	0	78	143	217	302	399	531	705	911	1108	1290



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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	74	140	213	298	395	527	694	887	1085	1259
-25°	0	74	140	209	295	391	523	682	864	1058	1221
-27.5°	0	74	136	205	291	391	519	670	841	1027	1186
-30°	0	70	136	205	283	388	511	655	821	992	1147
-32.5°	0	70	132	202	283	388	500	643	802	961	1108
-35°	0	70	132	194	279	380	492	632	779	930	1069
-37.5°	0	66	128	190	275	376	488	616	759	903	1027
-40°	0	66	124	186	271	368	480	601	736	876	988
-42.5°	0	62	120	178	264	364	469	585	713	837	945
-45°	0	58	120	174	260	357	457	566	694	798	899
-47.5°	0	58	116	171	252	345	446	554	670	759	856
-50°	0	54	112	167	248	337	430	535	635	721	810
-52.5°	0	50	109	163	240	326	419	515	604	682	767
-55°	0	50	105	159	229	314	403	500	573	643	717
-57.5°	0	47	97	151	221	298	388	477	542	608	674
-60°	0	43	93	143	213	287	372	453	508	570	632
-62.5°	0	39	89	136	198	271	349	426	480	531	589
-65°	0	35	81	128	186	256	329	399	450	496	546
-67.5°	0	35	74	120	174	236	310	368	415	461	504
-70°	0	31	66	112	159	217	287	333	376	426	465
-72.5°	0	27	58	97	143	194	256	298	333	376	422
-75°	0	23	50	85	128	171	225	260	291	322	357
-77.5°	0	19	43	70	109	147	194	221	244	267	291
-80°	0	16	35	58	85	120	159	178	198	217	233
-82.5°	0	12	27	43	66	89	120	136	151	167	178
-85°	0	8	16	27	43	62	81	93	101	112	120
-87.5°	0	4	8	16	23	31	39	47	50	54	62
-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°	66	70	74	74	74	70	66	62	70	78	85
85°	128	140	143	151	147	140	136	128	143	159	178
82.5°	190	202	209	217	217	209	202	190	213	236	264
80°	248	264	279	291	291	279	267	252	279	314	349
77.5°	318	337	353	368	364	360	353	345	372	407	442
75°	388	415	426	442	450	446	446	453	484	527	566
72.5°	450	469	492	519	531	539	558	581	612	647	678
70°	500	523	554	581	604	628	655	686	717	752	783
67.5°	546	581	612	647	678	713	748	783	818	856	895
65°	597	635	674	713	756	798	841	880	922	973	1015
62.5°	647	690	736	783	833	883	934	984	1042	1097	1151
60°	694	748	802	860	918	976	1031	1097	1166	1228	1298
57.5°	740	806	868	934	1000	1066	1143	1217	1298	1379	1457
55°	790	868	938	1011	1085	1170	1255	1348	1438	1542	1639
52.5°	845	926	1007	1089	1182	1275	1376	1484	1600	1720	1840
50°	899	988	1077	1174	1279	1387	1507	1635	1775	1914	2061
47.5°	949	1046	1155	1259	1379	1507	1647	1802	1957	2131	2317
45°	1004	1108	1224	1352	1484	1635	1802	1972	2170	2367	2584
42.5°	1058	1170	1302	1438	1600	1771	1953	2170	2391	2635	2898
40°	1104	1232	1379	1542	1716	1906	2131	2367	2639	2929	3255
37.5°	1159	1298	1457	1635	1837	2057	2317	2592	2906	3259	3650
35°	1209	1364	1538	1732	1957	2212	2503	2825	3189	3615	4092
32.5°	1259	1430	1616	1829	2077	2367	2697	3076	3507	3995	4591
30°	1310	1488	1689	1922	2201	2530	2910	3332	3828	4444	5153
27.5°	1356	1550	1767	2023	2321	2681	3111	3615	4200	4894	5723
25°	1403	1604	1840	2116	2449	2844	3313	3867	4568	5390	6374
22.5°	1445	1658	1906	2205	2565	3003	3530	4161	4932	5847	7005
20°	1488	1713	1976	2290	2666	3146	3727	4433	5308	6385	7672
17.5°	1523	1763	2042	2379	2790	3293	3910	4704	5649	6881	8315
15°	1558	1806	2100	2457	2898	3441	4107	4940	6010	7350	8873
12.5°	1585	1840	2150	2526	2991	3565	4278	5180	6358	7792	9357
10°	1604	1871	2189	2581	3069	3665	4417	5374	6641	8152	9760
7.5°	1623	1895	2220	2623	3127	3743	4526	5525	6858	8431	10070
5°	1639	1914	2243	2654	3166	3801	4607	5622	7013	8629	10291
2.5°	1651	1930	2263	2681	3197	3863	4681	5727	7160	8795	10489
0°	1651	1933	2263	2681	3193	3875	4692	5734	7180	8791	10516
-2.5°	1651	1930	2263	2681	3197	3863	4681	5727	7160	8795	10489
-5°	1639	1914	2243	2654	3166	3801	4607	5622	7013	8629	10291
-7.5°	1623	1895	2220	2623	3127	3743	4526	5525	6858	8431	10070
-10°	1604	1871	2189	2581	3069	3665	4417	5374	6641	8152	9760
-12.5°	1585	1840	2150	2526	2991	3565	4278	5180	6358	7792	9357
-15°	1558	1806	2100	2457	2898	3441	4107	4940	6010	7350	8873
-17.5°	1523	1763	2042	2379	2790	3293	3910	4704	5649	6881	8315
-20°	1488	1713	1976	2290	2666	3146	3727	4433	5308	6385	7672



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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°	1445	1658	1906	2205	2565	3003	3530	4161	4932	5847	7005
-25°	1403	1604	1840	2116	2449	2844	3313	3867	4568	5390	6374
-27.5°	1356	1550	1767	2023	2321	2681	3111	3615	4200	4894	5723
-30°	1310	1488	1689	1922	2201	2530	2910	3332	3828	4444	5153
-32.5°	1259	1430	1616	1829	2077	2367	2697	3076	3507	3995	4591
-35°	1209	1364	1538	1732	1957	2212	2503	2825	3189	3615	4092
-37.5°	1159	1298	1457	1635	1837	2057	2317	2592	2906	3259	3650
-40°	1104	1232	1379	1542	1716	1906	2131	2367	2639	2929	3255
-42.5°	1058	1170	1302	1438	1600	1771	1953	2170	2391	2635	2898
-45°	1004	1108	1224	1352	1484	1635	1802	1972	2170	2367	2584
-47.5°	949	1046	1155	1259	1379	1507	1647	1802	1957	2131	2317
-50°	899	988	1077	1174	1279	1387	1507	1635	1775	1914	2061
-52.5°	845	926	1007	1089	1182	1275	1376	1484	1600	1720	1840
-55°	790	868	938	1011	1085	1170	1255	1348	1438	1542	1639
-57.5°	740	806	868	934	1000	1066	1143	1217	1298	1379	1457
-60°	694	748	802	860	918	976	1031	1097	1166	1228	1298
-62.5°	647	690	736	783	833	883	934	984	1042	1097	1151
-65°	597	635	674	713	756	798	841	880	922	973	1015
-67.5°	546	581	612	647	678	713	748	783	818	856	895
-70°	500	523	554	581	604	628	655	686	717	752	783
-72.5°	450	469	492	519	531	539	558	581	612	647	678
-75°	388	415	426	442	450	446	446	453	484	527	566
-77.5°	318	337	353	368	364	360	353	345	372	407	442
-80°	248	264	279	291	291	279	267	252	279	314	349
-82.5°	190	202	209	217	217	209	202	190	213	236	264
-85°	128	140	143	151	147	140	136	128	143	159	178
-87.5°	66	70	74	74	74	70	66	62	70	78	85
-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°	97	97	97	97	93	97	97	101	105	93	81
85°	194	198	198	198	198	198	198	198	198	178	159
82.5°	291	302	310	322	329	329	326	322	314	283	248
80°	384	403	415	426	438	434	430	422	419	380	341
77.5°	477	500	515	527	539	542	539	539	535	500	457
75°	597	616	632	647	663	670	674	674	674	643	604
72.5°	705	728	752	775	794	806	818	825	833	818	794
70°	818	845	872	899	926	945	961	976	984	988	988
67.5°	934	969	1004	1038	1069	1097	1116	1135	1151	1166	1174
65°	1062	1108	1151	1190	1224	1259	1286	1314	1337	1356	1368
62.5°	1205	1259	1310	1360	1399	1441	1484	1523	1554	1581	1600
60°	1364	1430	1492	1554	1616	1666	1720	1767	1806	1840	1871
57.5°	1542	1623	1701	1782	1852	1918	1984	2050	2108	2154	2193
55°	1740	1840	1941	2038	2135	2224	2309	2395	2472	2534	2588
52.5°	1968	2088	2216	2336	2468	2584	2693	2809	2914	3007	3084
50°	2212	2367	2534	2689	2859	3022	3169	3317	3464	3592	3696
47.5°	2499	2685	2902	3115	3324	3545	3751	3944	4146	4316	4460
45°	2809	3069	3324	3611	3875	4173	4456	4739	4987	5235	5444
42.5°	3177	3503	3828	4196	4557	4932	5331	5688	6060	6424	6726
40°	3615	3999	4448	4890	5390	5862	6428	6928	7400	7862	8253
37.5°	4095	4603	5157	5719	6397	7063	7726	8354	8915	9431	9841
35°	4650	5289	5948	6765	7571	8385	9144	9857	10496	11019	11453
32.5°	5285	6041	6951	7900	8834	9737	10644	11349	12015	12612	13123
30°	5959	6943	8005	9067	10086	11066	11980	12829	13604	14274	14847
27.5°	6750	7889	9070	10210	11302	12360	13398	14367	15216	15921	16634
25°	7532	8838	10101	11306	12488	13670	14813	15901	16893	17757	18528
22.5°	8358	9721	11054	12333	13673	14960	16211	17451	18590	19586	20454
20°	9121	10585	11945	13371	14824	16219	17626	18966	20237	21438	22426
17.5°	9803	11294	12778	14282	15866	17447	18974	20427	21876	23275	24507
15°	10411	11976	13499	15138	16847	18548	20249	21849	23480	25030	26409
12.5°	10950	12565	14185	15928	17715	19485	21349	23209	25018	26688	28184
10°	11395	13073	14809	16614	18470	20342	22349	24414	26351	28126	29753
7.5°	11732	13456	15270	17145	19102	21105	23201	25305	27355	29261	30966
5°	11972	13712	15576	17490	19528	21620	23856	26099	28191	30164	31907
2.5°	12189	13941	15839	17680	19757	21926	24166	26491	28629	30656	32597
0°	12248	14034	15952	17842	19861	22039	24321	26591	28784	30985	32810
-2.5°	12189	13941	15839	17680	19757	21926	24166	26491	28629	30656	32597
-5°	11972	13712	15576	17490	19528	21620	23856	26099	28191	30164	31907
-7.5°	11732	13456	15270	17145	19102	21105	23201	25305	27355	29261	30966
-10°	11395	13073	14809	16614	18470	20342	22349	24414	26351	28126	29753
-12.5°	10950	12565	14185	15928	17715	19485	21349	23209	25018	26688	28184
-15°	10411	11976	13499	15138	16847	18548	20249	21849	23480	25030	26409
-17.5°	9803	11294	12778	14282	15866	17447	18974	20427	21876	23275	24507
-20°	9121	10585	11945	13371	14824	16219	17626	18966	20237	21438	22426



REPORT NUMBER: P621390
 CATALOG NUMBER: EPH-VN-04-E-750-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8358	9721	11054	12333	13673	14960	16211	17451	18590	19586	20454
-25°	7532	8838	10101	11306	12488	13670	14813	15901	16893	17757	18528
-27.5°	6750	7889	9070	10210	11302	12360	13398	14367	15216	15921	16634
-30°	5959	6943	8005	9067	10086	11066	11980	12829	13604	14274	14847
-32.5°	5285	6041	6951	7900	8834	9737	10644	11349	12015	12612	13123
-35°	4650	5289	5948	6765	7571	8385	9144	9857	10496	11019	11453
-37.5°	4095	4603	5157	5719	6397	7063	7726	8354	8915	9431	9841
-40°	3615	3999	4448	4890	5390	5862	6428	6928	7400	7862	8253
-42.5°	3177	3503	3828	4196	4557	4932	5331	5688	6060	6424	6726
-45°	2809	3069	3324	3611	3875	4173	4456	4739	4987	5235	5444
-47.5°	2499	2685	2902	3115	3324	3545	3751	3944	4146	4316	4460
-50°	2212	2367	2534	2689	2859	3022	3169	3317	3464	3592	3696
-52.5°	1968	2088	2216	2336	2468	2584	2693	2809	2914	3007	3084
-55°	1740	1840	1941	2038	2135	2224	2309	2395	2472	2534	2588
-57.5°	1542	1623	1701	1782	1852	1918	1984	2050	2108	2154	2193
-60°	1364	1430	1492	1554	1616	1666	1720	1767	1806	1840	1871
-62.5°	1205	1259	1310	1360	1399	1441	1484	1523	1554	1581	1600
-65°	1062	1108	1151	1190	1224	1259	1286	1314	1337	1356	1368
-67.5°	934	969	1004	1038	1069	1097	1116	1135	1151	1166	1174
-70°	818	845	872	899	926	945	961	976	984	988	988
-72.5°	705	728	752	775	794	806	818	825	833	818	794
-75°	597	616	632	647	663	670	674	674	674	643	604
-77.5°	477	500	515	527	539	542	539	539	535	500	457
-80°	384	403	415	426	438	434	430	422	419	380	341
-82.5°	291	302	310	322	329	329	326	322	314	283	248
-85°	194	198	198	198	198	198	198	198	198	178	159
-87.5°	97	97	97	97	93	97	97	101	105	93	81
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: EPH-VN-04-E-750-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°	66	54	50	43	50	54	66	81	93	105	101
85°	136	112	109	101	109	112	136	159	178	198	198
82.5°	217	178	171	163	171	178	217	248	283	314	322
80°	306	260	252	244	252	260	306	341	380	419	422
77.5°	415	372	357	345	357	372	415	457	500	535	539
75°	562	519	508	496	508	519	562	604	643	674	674
72.5°	767	748	717	690	717	748	767	794	818	833	825
70°	992	1000	992	980	992	1000	992	988	988	984	976
67.5°	1178	1186	1186	1190	1186	1186	1178	1174	1166	1151	1135
65°	1379	1383	1395	1399	1395	1383	1379	1368	1356	1337	1314
62.5°	1612	1623	1631	1631	1631	1623	1612	1600	1581	1554	1523
60°	1891	1906	1926	1930	1926	1906	1891	1871	1840	1806	1767
57.5°	2224	2243	2271	2278	2271	2243	2224	2193	2154	2108	2050
55°	2627	2654	2670	2662	2670	2654	2627	2588	2534	2472	2395
52.5°	3150	3197	3228	3212	3228	3197	3150	3084	3007	2914	2809
50°	3782	3840	3879	3867	3879	3840	3782	3696	3592	3464	3317
47.5°	4572	4653	4719	4723	4719	4653	4572	4460	4316	4146	3944
45°	5610	5731	5820	5804	5820	5731	5610	5444	5235	4987	4739
42.5°	6959	7125	7257	7246	7257	7125	6959	6726	6424	6060	5688
40°	8543	8749	8923	8970	8923	8749	8543	8253	7862	7400	6928
37.5°	10175	10438	10659	10636	10659	10438	10175	9841	9431	8915	8354
35°	11814	12089	12306	12325	12306	12089	11814	11453	11019	10496	9857
32.5°	13530	13836	14092	14127	14092	13836	13530	13123	12612	12015	11349
30°	15320	15688	15994	16056	15994	15688	15320	14847	14274	13604	12829
27.5°	17203	17641	17932	18044	17932	17641	17203	16634	15921	15216	14367
25°	19144	19621	19946	20128	19946	19621	19144	18528	17757	16893	15901
22.5°	21171	21736	22159	22360	22159	21736	21171	20454	19586	18590	17451
20°	23263	23879	24371	24580	24371	23879	23263	22426	21438	20237	18966
17.5°	25394	26146	26692	26959	26692	26146	25394	24507	23275	21876	20427
15°	27463	28261	28854	29141	28854	28261	27463	26409	25030	23480	21849
12.5°	29381	30226	30818	31233	30818	30226	29381	28184	26688	25018	23209
10°	31094	32016	32616	33046	32616	32016	31094	29753	28126	26351	24414
7.5°	32376	33542	34220	34643	34220	33542	32376	30966	29261	27355	25305
5°	33360	34647	35263	35662	35263	34647	33360	31907	30164	28191	26099
2.5°	34081	35096	35867	36266	35867	35096	34081	32597	30656	28629	26491
0°	34364	35557	36103	36363	36103	35557	34364	32810	30985	28784	26591
-2.5°	34081	35096	35867	36266	35867	35096	34081	32597	30656	28629	26491
-5°	33360	34647	35263	35662	35263	34647	33360	31907	30164	28191	26099
-7.5°	32376	33542	34220	34643	34220	33542	32376	30966	29261	27355	25305
-10°	31094	32016	32616	33046	32616	32016	31094	29753	28126	26351	24414
-12.5°	29381	30226	30818	31233	30818	30226	29381	28184	26688	25018	23209
-15°	27463	28261	28854	29141	28854	28261	27463	26409	25030	23480	21849
-17.5°	25394	26146	26692	26959	26692	26146	25394	24507	23275	21876	20427
-20°	23263	23879	24371	24580	24371	23879	23263	22426	21438	20237	18966



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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°	21171	21736	22159	22360	22159	21736	21171	20454	19586	18590	17451
-25°	19144	19621	19946	20128	19946	19621	19144	18528	17757	16893	15901
-27.5°	17203	17641	17932	18044	17932	17641	17203	16634	15921	15216	14367
-30°	15320	15688	15994	16056	15994	15688	15320	14847	14274	13604	12829
-32.5°	13530	13836	14092	14127	14092	13836	13530	13123	12612	12015	11349
-35°	11814	12089	12306	12325	12306	12089	11814	11453	11019	10496	9857
-37.5°	10175	10438	10659	10636	10659	10438	10175	9841	9431	8915	8354
-40°	8543	8749	8923	8970	8923	8749	8543	8253	7862	7400	6928
-42.5°	6959	7125	7257	7246	7257	7125	6959	6726	6424	6060	5688
-45°	5610	5731	5820	5804	5820	5731	5610	5444	5235	4987	4739
-47.5°	4572	4653	4719	4723	4719	4653	4572	4460	4316	4146	3944
-50°	3782	3840	3879	3867	3879	3840	3782	3696	3592	3464	3317
-52.5°	3150	3197	3228	3212	3228	3197	3150	3084	3007	2914	2809
-55°	2627	2654	2670	2662	2670	2654	2627	2588	2534	2472	2395
-57.5°	2224	2243	2271	2278	2271	2243	2224	2193	2154	2108	2050
-60°	1891	1906	1926	1930	1926	1906	1891	1871	1840	1806	1767
-62.5°	1612	1623	1631	1631	1631	1623	1612	1600	1581	1554	1523
-65°	1379	1383	1395	1399	1395	1383	1379	1368	1356	1337	1314
-67.5°	1178	1186	1186	1190	1186	1186	1178	1174	1166	1151	1135
-70°	992	1000	992	980	992	1000	992	988	988	984	976
-72.5°	767	748	717	690	717	748	767	794	818	833	825
-75°	562	519	508	496	508	519	562	604	643	674	674
-77.5°	415	372	357	345	357	372	415	457	500	535	539
-80°	306	260	252	244	252	260	306	341	380	419	422
-82.5°	217	178	171	163	171	178	217	248	283	314	322
-85°	136	112	109	101	109	112	136	159	178	198	198
-87.5°	66	54	50	43	50	54	66	81	93	105	101
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	97	97	93	97	97	97	97	85	78	70	62
85°	198	198	198	198	198	198	194	178	159	143	128
82.5°	326	329	329	322	310	302	291	264	236	213	190
80°	430	434	438	426	415	403	384	349	314	279	252
77.5°	539	542	539	527	515	500	477	442	407	372	345
75°	674	670	663	647	632	616	597	566	527	484	453
72.5°	818	806	794	775	752	728	705	678	647	612	581
70°	961	945	926	899	872	845	818	783	752	717	686
67.5°	1116	1097	1069	1038	1004	969	934	895	856	818	783
65°	1286	1259	1224	1190	1151	1108	1062	1015	973	922	880
62.5°	1484	1441	1399	1360	1310	1259	1205	1151	1097	1042	984
60°	1720	1666	1616	1554	1492	1430	1364	1298	1228	1166	1097
57.5°	1984	1918	1852	1782	1701	1623	1542	1457	1379	1298	1217
55°	2309	2224	2135	2038	1941	1840	1740	1639	1542	1438	1348
52.5°	2693	2584	2468	2336	2216	2088	1968	1840	1720	1600	1484
50°	3169	3022	2859	2689	2534	2367	2212	2061	1914	1775	1635
47.5°	3751	3545	3324	3115	2902	2685	2499	2317	2131	1957	1802
45°	4456	4173	3875	3611	3324	3069	2809	2584	2367	2170	1972
42.5°	5331	4932	4557	4196	3828	3503	3177	2898	2635	2391	2170
40°	6428	5862	5390	4890	4448	3999	3615	3255	2929	2639	2367
37.5°	7726	7063	6397	5719	5157	4603	4095	3650	3259	2906	2592
35°	9144	8385	7571	6765	5948	5289	4650	4092	3615	3189	2825
32.5°	10644	9737	8834	7900	6951	6041	5285	4591	3995	3507	3076
30°	11980	11066	10086	9067	8005	6943	5959	5153	4444	3828	3332
27.5°	13398	12360	11302	10210	9070	7889	6750	5723	4894	4200	3615
25°	14813	13670	12488	11306	10101	8838	7532	6374	5390	4568	3867
22.5°	16211	14960	13673	12333	11054	9721	8358	7005	5847	4932	4161
20°	17626	16219	14824	13371	11945	10585	9121	7672	6385	5308	4433
17.5°	18974	17447	15866	14282	12778	11294	9803	8315	6881	5649	4704
15°	20249	18548	16847	15138	13499	11976	10411	8873	7350	6010	4940
12.5°	21349	19485	17715	15928	14185	12565	10950	9357	7792	6358	5180
10°	22349	20342	18470	16614	14809	13073	11395	9760	8152	6641	5374
7.5°	23201	21105	19102	17145	15270	13456	11732	10070	8431	6858	5525
5°	23856	21620	19528	17490	15576	13712	11972	10291	8629	7013	5622
2.5°	24166	21926	19757	17680	15839	13941	12189	10489	8795	7160	5727
0°	24321	22039	19861	17842	15952	14034	12248	10516	8791	7180	5734
-2.5°	24166	21926	19757	17680	15839	13941	12189	10489	8795	7160	5727
-5°	23856	21620	19528	17490	15576	13712	11972	10291	8629	7013	5622
-7.5°	23201	21105	19102	17145	15270	13456	11732	10070	8431	6858	5525
-10°	22349	20342	18470	16614	14809	13073	11395	9760	8152	6641	5374
-12.5°	21349	19485	17715	15928	14185	12565	10950	9357	7792	6358	5180
-15°	20249	18548	16847	15138	13499	11976	10411	8873	7350	6010	4940
-17.5°	18974	17447	15866	14282	12778	11294	9803	8315	6881	5649	4704
-20°	17626	16219	14824	13371	11945	10585	9121	7672	6385	5308	4433



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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°	16211	14960	13673	12333	11054	9721	8358	7005	5847	4932	4161
-25°	14813	13670	12488	11306	10101	8838	7532	6374	5390	4568	3867
-27.5°	13398	12360	11302	10210	9070	7889	6750	5723	4894	4200	3615
-30°	11980	11066	10086	9067	8005	6943	5959	5153	4444	3828	3332
-32.5°	10644	9737	8834	7900	6951	6041	5285	4591	3995	3507	3076
-35°	9144	8385	7571	6765	5948	5289	4650	4092	3615	3189	2825
-37.5°	7726	7063	6397	5719	5157	4603	4095	3650	3259	2906	2592
-40°	6428	5862	5390	4890	4448	3999	3615	3255	2929	2639	2367
-42.5°	5331	4932	4557	4196	3828	3503	3177	2898	2635	2391	2170
-45°	4456	4173	3875	3611	3324	3069	2809	2584	2367	2170	1972
-47.5°	3751	3545	3324	3115	2902	2685	2499	2317	2131	1957	1802
-50°	3169	3022	2859	2689	2534	2367	2212	2061	1914	1775	1635
-52.5°	2693	2584	2468	2336	2216	2088	1968	1840	1720	1600	1484
-55°	2309	2224	2135	2038	1941	1840	1740	1639	1542	1438	1348
-57.5°	1984	1918	1852	1782	1701	1623	1542	1457	1379	1298	1217
-60°	1720	1666	1616	1554	1492	1430	1364	1298	1228	1166	1097
-62.5°	1484	1441	1399	1360	1310	1259	1205	1151	1097	1042	984
-65°	1286	1259	1224	1190	1151	1108	1062	1015	973	922	880
-67.5°	1116	1097	1069	1038	1004	969	934	895	856	818	783
-70°	961	945	926	899	872	845	818	783	752	717	686
-72.5°	818	806	794	775	752	728	705	678	647	612	581
-75°	674	670	663	647	632	616	597	566	527	484	453
-77.5°	539	542	539	527	515	500	477	442	407	372	345
-80°	430	434	438	426	415	403	384	349	314	279	252
-82.5°	326	329	329	322	310	302	291	264	236	213	190
-85°	198	198	198	198	198	198	194	178	159	143	128
-87.5°	97	97	93	97	97	97	97	85	78	70	62
-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°	66	70	74	74	74	70	66	62	54	50	47
85°	136	140	147	151	143	140	128	120	112	101	93
82.5°	202	209	217	217	209	202	190	178	167	151	136
80°	267	279	291	291	279	264	248	233	217	198	178
77.5°	353	360	364	368	353	337	318	291	267	244	221
75°	446	446	450	442	426	415	388	357	322	291	260
72.5°	558	539	531	519	492	469	450	422	376	333	298
70°	655	628	604	581	554	523	500	465	426	376	333
67.5°	748	713	678	647	612	581	546	504	461	415	368
65°	841	798	756	713	674	635	597	546	496	450	399
62.5°	934	883	833	783	736	690	647	589	531	480	426
60°	1031	976	918	860	802	748	694	632	570	508	453
57.5°	1143	1066	1000	934	868	806	740	674	608	542	477
55°	1255	1170	1085	1011	938	868	790	717	643	573	500
52.5°	1376	1275	1182	1089	1007	926	845	767	682	604	515
50°	1507	1387	1279	1174	1077	988	899	810	721	635	535
47.5°	1647	1507	1379	1259	1155	1046	949	856	759	670	554
45°	1802	1635	1484	1352	1224	1108	1004	899	798	694	566
42.5°	1953	1771	1600	1438	1302	1170	1058	945	837	713	585
40°	2131	1906	1716	1542	1379	1232	1104	988	876	736	601
37.5°	2317	2057	1837	1635	1457	1298	1159	1027	903	759	616
35°	2503	2212	1957	1732	1538	1364	1209	1069	930	779	632
32.5°	2697	2367	2077	1829	1616	1430	1259	1108	961	802	643
30°	2910	2530	2201	1922	1689	1488	1310	1147	992	821	655
27.5°	3111	2681	2321	2023	1767	1550	1356	1186	1027	841	670
25°	3313	2844	2449	2116	1840	1604	1403	1221	1058	864	682
22.5°	3530	3003	2565	2205	1906	1658	1445	1259	1085	887	694
20°	3727	3146	2666	2290	1976	1713	1488	1290	1108	911	705
17.5°	3910	3293	2790	2379	2042	1763	1523	1317	1131	930	713
15°	4107	3441	2898	2457	2100	1806	1558	1345	1151	949	717
12.5°	4278	3565	2991	2526	2150	1840	1585	1364	1170	969	725
10°	4417	3665	3069	2581	2189	1871	1604	1383	1182	980	728
7.5°	4526	3743	3127	2623	2220	1895	1623	1395	1193	992	728
5°	4607	3801	3166	2654	2243	1914	1639	1407	1205	1007	732
2.5°	4681	3863	3197	2681	2263	1930	1651	1414	1205	1004	725
0°	4692	3875	3193	2681	2263	1933	1651	1414	1201	1000	717
-2.5°	4681	3863	3197	2681	2263	1930	1651	1414	1205	1004	725
-5°	4607	3801	3166	2654	2243	1914	1639	1407	1205	1007	732
-7.5°	4526	3743	3127	2623	2220	1895	1623	1395	1193	992	728
-10°	4417	3665	3069	2581	2189	1871	1604	1383	1182	980	728
-12.5°	4278	3565	2991	2526	2150	1840	1585	1364	1170	969	725
-15°	4107	3441	2898	2457	2100	1806	1558	1345	1151	949	717
-17.5°	3910	3293	2790	2379	2042	1763	1523	1317	1131	930	713
-20°	3727	3146	2666	2290	1976	1713	1488	1290	1108	911	705



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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°	3530	3003	2565	2205	1906	1658	1445	1259	1085	887	694
-25°	3313	2844	2449	2116	1840	1604	1403	1221	1058	864	682
-27.5°	3111	2681	2321	2023	1767	1550	1356	1186	1027	841	670
-30°	2910	2530	2201	1922	1689	1488	1310	1147	992	821	655
-32.5°	2697	2367	2077	1829	1616	1430	1259	1108	961	802	643
-35°	2503	2212	1957	1732	1538	1364	1209	1069	930	779	632
-37.5°	2317	2057	1837	1635	1457	1298	1159	1027	903	759	616
-40°	2131	1906	1716	1542	1379	1232	1104	988	876	736	601
-42.5°	1953	1771	1600	1438	1302	1170	1058	945	837	713	585
-45°	1802	1635	1484	1352	1224	1108	1004	899	798	694	566
-47.5°	1647	1507	1379	1259	1155	1046	949	856	759	670	554
-50°	1507	1387	1279	1174	1077	988	899	810	721	635	535
-52.5°	1376	1275	1182	1089	1007	926	845	767	682	604	515
-55°	1255	1170	1085	1011	938	868	790	717	643	573	500
-57.5°	1143	1066	1000	934	868	806	740	674	608	542	477
-60°	1031	976	918	860	802	748	694	632	570	508	453
-62.5°	934	883	833	783	736	690	647	589	531	480	426
-65°	841	798	756	713	674	635	597	546	496	450	399
-67.5°	748	713	678	647	612	581	546	504	461	415	368
-70°	655	628	604	581	554	523	500	465	426	376	333
-72.5°	558	539	531	519	492	469	450	422	376	333	298
-75°	446	446	450	442	426	415	388	357	322	291	260
-77.5°	353	360	364	368	353	337	318	291	267	244	221
-80°	267	279	291	291	279	264	248	233	217	198	178
-82.5°	202	209	217	217	209	202	190	178	167	151	136
-85°	136	140	147	151	143	140	128	120	112	101	93
-87.5°	66	70	74	74	74	70	66	62	54	50	47
-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°	39	31	23	16	8	4	0
85°	81	62	43	27	16	8	0
82.5°	120	89	66	43	27	12	0
80°	159	120	85	58	35	16	0
77.5°	194	147	109	70	43	19	0
75°	225	171	128	85	50	23	0
72.5°	256	194	143	97	58	27	0
70°	287	217	159	112	66	31	0
67.5°	310	236	174	120	74	35	0
65°	329	256	186	128	81	35	0
62.5°	349	271	198	136	89	39	0
60°	372	287	213	143	93	43	0
57.5°	388	298	221	151	97	47	0
55°	403	314	229	159	105	50	0
52.5°	419	326	240	163	109	50	0
50°	430	337	248	167	112	54	0
47.5°	446	345	252	171	116	58	0
45°	457	357	260	174	120	58	0
42.5°	469	364	264	178	120	62	0
40°	480	368	271	186	124	66	0
37.5°	488	376	275	190	128	66	0
35°	492	380	279	194	132	70	0
32.5°	500	388	283	202	132	70	0
30°	511	388	283	205	136	70	0
27.5°	519	391	291	205	136	74	0
25°	523	391	295	209	140	74	0
22.5°	527	395	298	213	140	74	0
20°	531	399	302	217	143	78	0
17.5°	535	407	306	217	143	78	0
15°	542	411	306	217	143	81	0
12.5°	546	411	306	221	143	81	0
10°	550	415	306	221	147	78	0
7.5°	550	415	310	221	147	78	0
5°	550	419	306	221	143	78	0
2.5°	542	419	306	217	143	78	0
0°	539	415	302	217	143	78	0
-2.5°	542	419	306	217	143	78	0
-5°	550	419	306	221	143	78	0
-7.5°	550	415	310	221	147	78	0
-10°	550	415	306	221	147	78	0
-12.5°	546	411	306	221	143	81	0
-15°	542	411	306	217	143	81	0
-17.5°	535	407	306	217	143	78	0
-20°	531	399	302	217	143	78	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	527	395	298	213	140	74	0
-25°	523	391	295	209	140	74	0
-27.5°	519	391	291	205	136	74	0
-30°	511	388	283	205	136	70	0
-32.5°	500	388	283	202	132	70	0
-35°	492	380	279	194	132	70	0
-37.5°	488	376	275	190	128	66	0
-40°	480	368	271	186	124	66	0
-42.5°	469	364	264	178	120	62	0
-45°	457	357	260	174	120	58	0
-47.5°	446	345	252	171	116	58	0
-50°	430	337	248	167	112	54	0
-52.5°	419	326	240	163	109	50	0
-55°	403	314	229	159	105	50	0
-57.5°	388	298	221	151	97	47	0
-60°	372	287	213	143	93	43	0
-62.5°	349	271	198	136	89	39	0
-65°	329	256	186	128	81	35	0
-67.5°	310	236	174	120	74	35	0
-70°	287	217	159	112	66	31	0
-72.5°	256	194	143	97	58	27	0
-75°	225	171	128	85	50	23	0
-77.5°	194	147	109	70	43	19	0
-80°	159	120	85	58	35	16	0
-82.5°	120	89	66	43	27	12	0
-85°	81	62	43	27	16	8	0
-87.5°	39	31	23	16	8	4	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)