

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: P621383

Luminaire Tested: **EPH-VN-08-D-735-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P621383
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-735-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

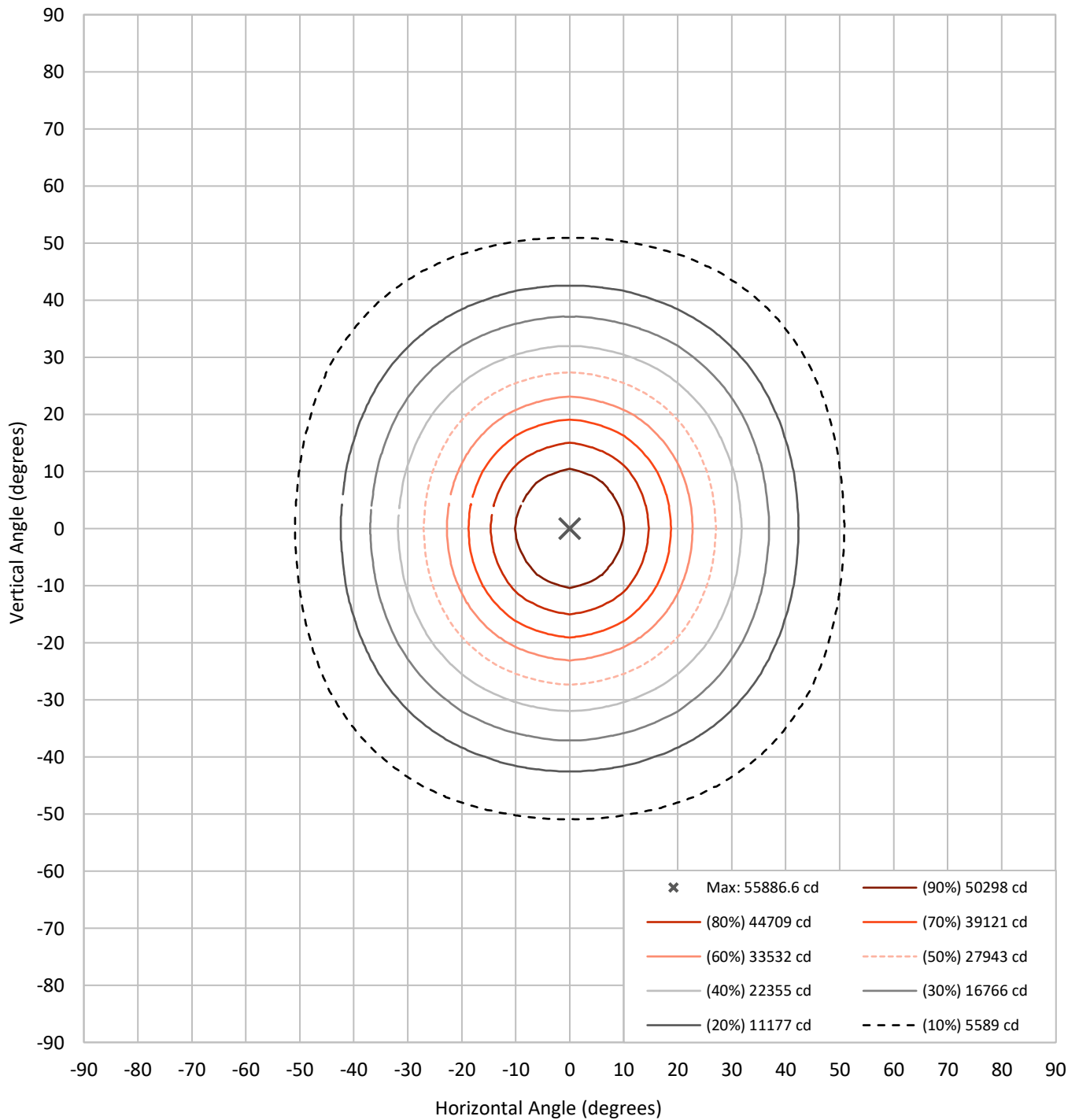
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	57963.6 lumens	Max Intensity:	55886.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	27869.1 lumens	Field Lumens:	50868.8 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





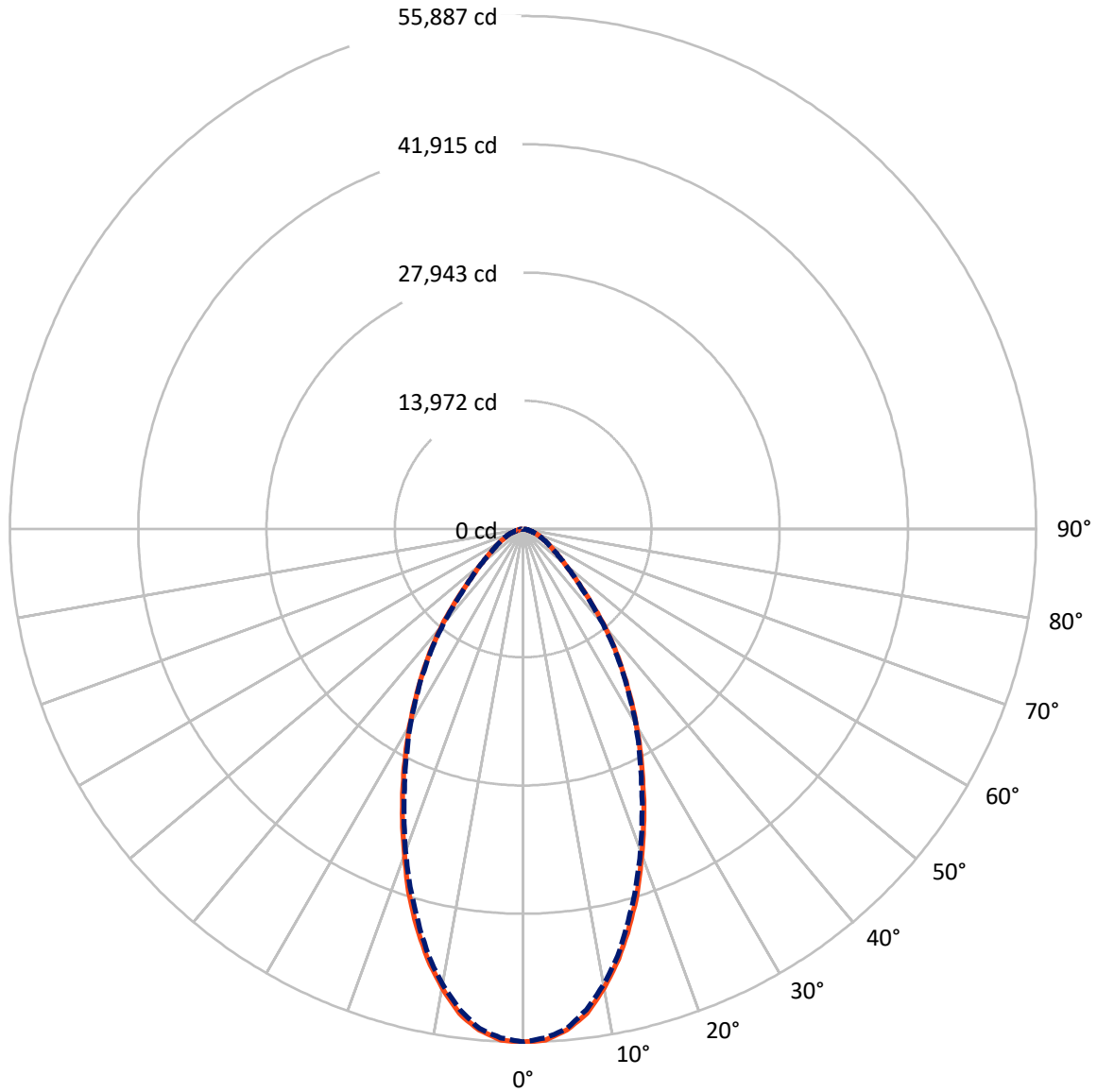
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Lumen Table

90																			
80	4.1	24.9		50.1		76.2		65.4		76.2		50.1		24.9		4.1			
70																			
60	10.2	10.9	19.3	29.4	41.1	52.5	61.3	65.6	65.6	61.3	52.5	41.1	29.4	19.3	10.9	10.2			
50		14.4	27.4	45.0	67.5	92.0	114.0	127.3	127.3	114.0	92.0	67.5	45.0	27.4	14.4				
40	13.7	18.0	36.8	66.4	110.1	168.8	232.5	275.7	275.7	232.5	168.8	110.1	66.4	36.8	18.0	13.7			
30		21.5	47.5	95.5	183.2	324.1	471.3	562.9	562.9	471.3	324.1	183.2	95.5	47.5	21.5				
20	15.8	24.7	58.4	132.4	293.3	529.2	760.2	912.4	912.4	760.2	529.2	293.3	132.4	58.4	24.7	15.8			
10		27.2	68.2	170.3	399.4	712.6	1055.3	1303.0	1303.0	1055.3	712.6	399.4	170.3	68.2	27.2				
0	16.6	28.6	74.0	195.3	461.1	826.5	1258.7	1582.0	1582.0	1258.7	826.5	461.1	195.3	74.0	28.6	16.6			
-10		28.6	74.0	195.3	461.1	826.5	1258.7	1582.0	1582.0	1258.7	826.5	461.1	195.3	74.0	28.6				
-20	15.8	27.2	68.2	170.3	399.4	712.6	1055.3	1303.0	1303.0	1055.3	712.6	399.4	170.3	68.2	27.2	15.8			
-30		24.7	58.4	132.4	293.3	529.2	760.2	912.4	912.4	760.2	529.2	293.3	132.4	58.4	24.7				
-40	13.7	21.5	47.5	95.5	183.2	324.1	471.3	562.9	562.9	471.3	324.1	183.2	95.5	47.5	21.5	13.7			
-50		18.0	36.8	66.4	110.1	168.8	232.5	275.7	275.7	232.5	168.8	110.1	66.4	36.8	18.0				
-60	10.2	14.4	27.4	45.0	67.5	92.0	114.0	127.3	127.3	114.0	92.0	67.5	45.0	27.4	14.4	10.2			
-70		10.9	19.3	29.4	41.1	52.5	61.3	65.6	65.6	61.3	52.5	41.1	29.4	19.3	10.9				
-80																			
-90	4.1	24.9		50.1		76.2		65.4		76.2		50.1		24.9		4.1			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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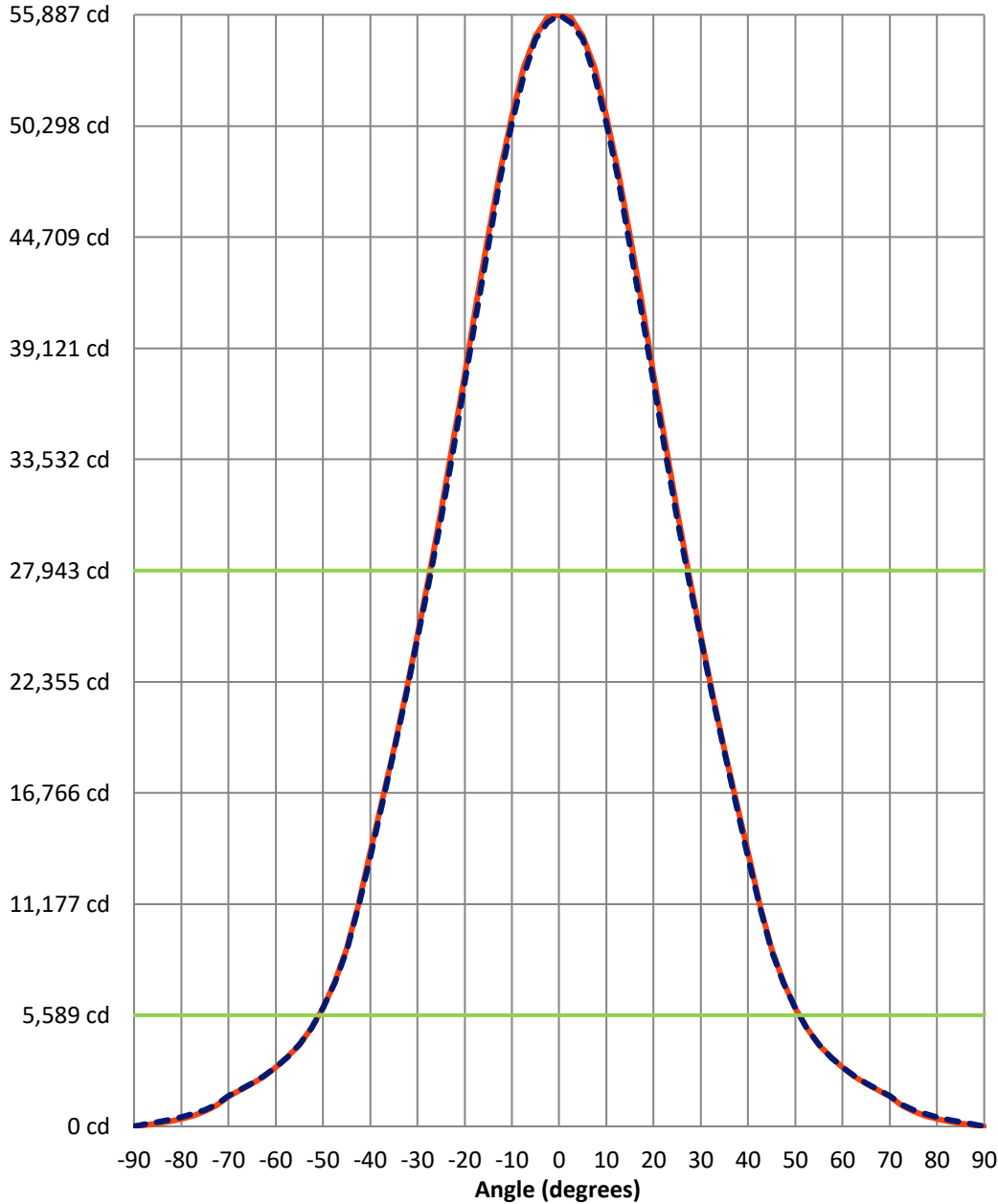
Luminous Intensity Polar Plot



— 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: 27869.1
 Efficiency: 48.1%

Field:
 H Angle: 101.7°
 V Angle: 101.8°
 Lumens: 50868.8
 Efficiency: 87.8%

Spill:
 Lumens: 7094.8
 Efficiency: 12.2%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	6	12	24	36	48	60	72	77	83	95
85°	0	12	24	42	66	95	125	143	155	173	185
82.5°	0	18	42	66	101	137	185	208	232	256	274
80°	0	24	54	89	131	185	244	274	304	334	357
77.5°	0	30	66	107	167	226	298	339	375	411	447
75°	0	36	77	131	197	262	345	399	447	494	548
72.5°	0	42	89	149	220	298	393	459	512	578	649
70°	0	48	101	173	244	334	441	512	578	655	715
67.5°	0	54	113	185	268	363	476	566	637	709	774
65°	0	54	125	197	286	393	506	613	691	762	840
62.5°	0	60	137	208	304	417	536	655	738	816	905
60°	0	66	143	220	328	441	572	697	780	875	971
57.5°	0	72	149	232	339	459	596	733	834	935	1036
55°	0	77	161	244	351	482	619	768	881	989	1102
52.5°	0	77	167	250	369	500	643	792	929	1048	1179
50°	0	83	173	256	381	518	661	822	977	1108	1245
47.5°	0	89	179	262	387	530	685	852	1030	1167	1316
45°	0	89	185	268	399	548	703	869	1066	1227	1382
42.5°	0	95	185	274	405	560	721	899	1096	1286	1453
40°	0	101	191	286	417	566	738	923	1131	1346	1519
37.5°	0	101	197	292	423	578	750	947	1167	1388	1578
35°	0	107	203	298	429	584	756	971	1197	1429	1644
32.5°	0	107	203	310	435	596	768	989	1233	1477	1703
30°	0	107	208	316	435	596	786	1006	1262	1525	1763
27.5°	0	113	208	316	447	601	798	1030	1292	1578	1822
25°	0	113	214	322	453	601	804	1048	1328	1626	1876
22.5°	0	113	214	328	459	607	810	1066	1364	1667	1935
20°	0	119	220	334	465	613	816	1084	1399	1703	1983
17.5°	0	119	220	334	470	625	822	1096	1429	1739	2025
15°	0	125	220	334	470	631	834	1102	1459	1769	2066
12.5°	0	125	220	339	470	631	840	1114	1489	1798	2096
10°	0	119	226	339	470	637	846	1120	1507	1816	2126
7.5°	0	119	226	339	476	637	846	1120	1525	1834	2144
5°	0	119	220	339	470	643	846	1126	1548	1852	2162
2.5°	0	119	220	334	470	643	834	1114	1542	1852	2174
0°	0	119	220	334	465	637	828	1102	1536	1846	2174
-2.5°	0	119	220	334	470	643	834	1114	1542	1852	2174
-5°	0	119	220	339	470	643	846	1126	1548	1852	2162
-7.5°	0	119	226	339	476	637	846	1120	1525	1834	2144
-10°	0	119	226	339	470	637	846	1120	1507	1816	2126
-12.5°	0	125	220	339	470	631	840	1114	1489	1798	2096
-15°	0	125	220	334	470	631	834	1102	1459	1769	2066
-17.5°	0	119	220	334	470	625	822	1096	1429	1739	2025
-20°	0	119	220	334	465	613	816	1084	1399	1703	1983



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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	113	214	328	459	607	810	1066	1364	1667	1935
-25°	0	113	214	322	453	601	804	1048	1328	1626	1876
-27.5°	0	113	208	316	447	601	798	1030	1292	1578	1822
-30°	0	107	208	316	435	596	786	1006	1262	1525	1763
-32.5°	0	107	203	310	435	596	768	989	1233	1477	1703
-35°	0	107	203	298	429	584	756	971	1197	1429	1644
-37.5°	0	101	197	292	423	578	750	947	1167	1388	1578
-40°	0	101	191	286	417	566	738	923	1131	1346	1519
-42.5°	0	95	185	274	405	560	721	899	1096	1286	1453
-45°	0	89	185	268	399	548	703	869	1066	1227	1382
-47.5°	0	89	179	262	387	530	685	852	1030	1167	1316
-50°	0	83	173	256	381	518	661	822	977	1108	1245
-52.5°	0	77	167	250	369	500	643	792	929	1048	1179
-55°	0	77	161	244	351	482	619	768	881	989	1102
-57.5°	0	72	149	232	339	459	596	733	834	935	1036
-60°	0	66	143	220	328	441	572	697	780	875	971
-62.5°	0	60	137	208	304	417	536	655	738	816	905
-65°	0	54	125	197	286	393	506	613	691	762	840
-67.5°	0	54	113	185	268	363	476	566	637	709	774
-70°	0	48	101	173	244	334	441	512	578	655	715
-72.5°	0	42	89	149	220	298	393	459	512	578	649
-75°	0	36	77	131	197	262	345	399	447	494	548
-77.5°	0	30	66	107	167	226	298	339	375	411	447
-80°	0	24	54	89	131	185	244	274	304	334	357
-82.5°	0	18	42	66	101	137	185	208	232	256	274
-85°	0	12	24	42	66	95	125	143	155	173	185
-87.5°	0	6	12	24	36	48	60	72	77	83	95
-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°	101	107	113	113	113	107	101	95	107	119	131
85°	197	214	220	232	226	214	208	197	220	244	274
82.5°	292	310	322	334	334	322	310	292	328	363	405
80°	381	405	429	447	447	429	411	387	429	482	536
77.5°	488	518	542	566	560	554	542	530	572	625	679
75°	596	637	655	679	691	685	685	697	744	810	869
72.5°	691	721	756	798	816	828	858	893	941	995	1042
70°	768	804	852	893	929	965	1006	1054	1102	1155	1203
67.5°	840	893	941	995	1042	1096	1149	1203	1257	1316	1376
65°	917	977	1036	1096	1161	1227	1292	1352	1417	1495	1560
62.5°	995	1060	1131	1203	1280	1358	1435	1513	1602	1685	1769
60°	1066	1149	1233	1322	1411	1501	1584	1685	1792	1888	1995
57.5°	1137	1239	1334	1435	1536	1638	1757	1870	1995	2120	2239
55°	1215	1334	1441	1554	1667	1798	1929	2072	2209	2370	2519
52.5°	1298	1423	1548	1673	1816	1959	2114	2281	2459	2644	2829
50°	1382	1519	1656	1804	1965	2132	2316	2513	2727	2942	3168
47.5°	1459	1608	1775	1935	2120	2316	2531	2769	3007	3275	3561
45°	1542	1703	1882	2078	2281	2513	2769	3031	3335	3638	3972
42.5°	1626	1798	2001	2209	2459	2721	3001	3335	3674	4049	4454
40°	1697	1894	2120	2370	2638	2930	3275	3638	4055	4502	5002
37.5°	1781	1995	2239	2513	2823	3162	3561	3984	4466	5008	5610
35°	1858	2096	2364	2662	3007	3400	3847	4341	4901	5556	6288
32.5°	1935	2197	2483	2811	3192	3638	4145	4728	5389	6140	7057
30°	2013	2287	2596	2954	3382	3889	4472	5121	5883	6830	7920
27.5°	2084	2382	2715	3108	3567	4121	4782	5556	6455	7521	8795
25°	2156	2465	2829	3251	3764	4371	5091	5943	7021	8283	9796
22.5°	2221	2549	2930	3388	3942	4615	5425	6396	7581	8986	10766
20°	2287	2632	3037	3519	4097	4835	5729	6812	8158	9814	11791
17.5°	2340	2710	3138	3656	4288	5062	6009	7229	8682	10576	12779
15°	2394	2775	3228	3775	4454	5288	6312	7593	9236	11296	13637
12.5°	2436	2829	3305	3883	4597	5479	6574	7962	9772	11975	14381
10°	2465	2876	3365	3966	4716	5633	6789	8259	10207	12529	15000
7.5°	2495	2912	3412	4032	4806	5752	6955	8492	10540	12958	15477
5°	2519	2942	3448	4079	4865	5842	7080	8641	10778	13262	15816
2.5°	2537	2966	3478	4121	4913	5937	7194	8801	11005	13518	16120
0°	2537	2972	3478	4121	4907	5955	7211	8813	11034	13512	16162
-2.5°	2537	2966	3478	4121	4913	5937	7194	8801	11005	13518	16120
-5°	2519	2942	3448	4079	4865	5842	7080	8641	10778	13262	15816
-7.5°	2495	2912	3412	4032	4806	5752	6955	8492	10540	12958	15477
-10°	2465	2876	3365	3966	4716	5633	6789	8259	10207	12529	15000
-12.5°	2436	2829	3305	3883	4597	5479	6574	7962	9772	11975	14381
-15°	2394	2775	3228	3775	4454	5288	6312	7593	9236	11296	13637
-17.5°	2340	2710	3138	3656	4288	5062	6009	7229	8682	10576	12779
-20°	2287	2632	3037	3519	4097	4835	5729	6812	8158	9814	11791



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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°	2221	2549	2930	3388	3942	4615	5425	6396	7581	8986	10766
-25°	2156	2465	2829	3251	3764	4371	5091	5943	7021	8283	9796
-27.5°	2084	2382	2715	3108	3567	4121	4782	5556	6455	7521	8795
-30°	2013	2287	2596	2954	3382	3889	4472	5121	5883	6830	7920
-32.5°	1935	2197	2483	2811	3192	3638	4145	4728	5389	6140	7057
-35°	1858	2096	2364	2662	3007	3400	3847	4341	4901	5556	6288
-37.5°	1781	1995	2239	2513	2823	3162	3561	3984	4466	5008	5610
-40°	1697	1894	2120	2370	2638	2930	3275	3638	4055	4502	5002
-42.5°	1626	1798	2001	2209	2459	2721	3001	3335	3674	4049	4454
-45°	1542	1703	1882	2078	2281	2513	2769	3031	3335	3638	3972
-47.5°	1459	1608	1775	1935	2120	2316	2531	2769	3007	3275	3561
-50°	1382	1519	1656	1804	1965	2132	2316	2513	2727	2942	3168
-52.5°	1298	1423	1548	1673	1816	1959	2114	2281	2459	2644	2829
-55°	1215	1334	1441	1554	1667	1798	1929	2072	2209	2370	2519
-57.5°	1137	1239	1334	1435	1536	1638	1757	1870	1995	2120	2239
-60°	1066	1149	1233	1322	1411	1501	1584	1685	1792	1888	1995
-62.5°	995	1060	1131	1203	1280	1358	1435	1513	1602	1685	1769
-65°	917	977	1036	1096	1161	1227	1292	1352	1417	1495	1560
-67.5°	840	893	941	995	1042	1096	1149	1203	1257	1316	1376
-70°	768	804	852	893	929	965	1006	1054	1102	1155	1203
-72.5°	691	721	756	798	816	828	858	893	941	995	1042
-75°	596	637	655	679	691	685	685	697	744	810	869
-77.5°	488	518	542	566	560	554	542	530	572	625	679
-80°	381	405	429	447	447	429	411	387	429	482	536
-82.5°	292	310	322	334	334	322	310	292	328	363	405
-85°	197	214	220	232	226	214	208	197	220	244	274
-87.5°	101	107	113	113	113	107	101	95	107	119	131
-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°	149	149	149	149	143	149	149	155	161	143	125
85°	298	304	304	304	304	304	304	304	304	274	244
82.5°	447	465	476	494	506	506	500	494	482	435	381
80°	590	619	637	655	673	667	661	649	643	584	524
77.5°	733	768	792	810	828	834	828	828	822	768	703
75°	917	947	971	995	1018	1030	1036	1036	1036	989	929
72.5°	1084	1120	1155	1191	1221	1239	1257	1268	1280	1257	1221
70°	1257	1298	1340	1382	1423	1453	1477	1501	1513	1519	1519
67.5°	1435	1489	1542	1596	1644	1685	1715	1745	1769	1792	1804
65°	1632	1703	1769	1828	1882	1935	1977	2019	2054	2084	2102
62.5°	1852	1935	2013	2090	2150	2215	2281	2340	2388	2430	2459
60°	2096	2197	2293	2388	2483	2561	2644	2715	2775	2829	2876
57.5°	2370	2495	2614	2739	2846	2948	3049	3150	3240	3311	3371
55°	2674	2829	2983	3132	3281	3418	3549	3680	3799	3895	3978
52.5°	3025	3210	3406	3591	3793	3972	4139	4317	4478	4621	4740
50°	3400	3638	3895	4133	4395	4645	4871	5097	5324	5520	5681
47.5°	3841	4127	4460	4788	5109	5449	5764	6062	6372	6634	6854
45°	4317	4716	5109	5550	5955	6413	6848	7283	7664	8045	8367
42.5°	4883	5383	5883	6449	7003	7581	8194	8742	9313	9873	10338
40°	5556	6145	6836	7515	8283	9010	9879	10647	11374	12083	12684
37.5°	6294	7074	7926	8789	9832	10856	11874	12839	13702	14494	15125
35°	7146	8128	9141	10397	11636	12886	14054	15149	16132	16936	17603
32.5°	8123	9284	10683	12142	13577	14965	16358	17442	18466	19383	20169
30°	9159	10671	12303	13934	15501	17007	18413	19717	20908	21938	22819
27.5°	10373	12124	13940	15691	17370	18996	20592	22081	23385	24469	25564
25°	11576	13583	15524	17376	19193	21009	22766	24439	25963	27291	28476
22.5°	12845	14941	16989	18954	21015	22992	24915	26821	28572	30102	31436
20°	14018	16269	18359	20550	22783	24927	27089	29149	31102	32948	34467
17.5°	15066	17359	19639	21950	24385	26815	29161	31394	33621	35771	37665
15°	16001	18407	20747	23266	25892	28506	31120	33580	36087	38469	40589
12.5°	16829	19312	21801	24481	27226	29947	32811	35670	38451	41017	43316
10°	17513	20092	22760	25535	28387	31263	34348	37522	40499	43227	45728
7.5°	18031	20681	23468	26350	29358	32436	35658	38891	42042	44971	47591
5°	18401	21074	23939	26880	30013	33228	36664	40112	43328	46359	49039
2.5°	18734	21426	24344	27172	30364	33699	37141	40714	44001	47115	50098
0°	18823	21569	24516	27422	30525	33871	37379	40868	44239	47621	50426
-2.5°	18734	21426	24344	27172	30364	33699	37141	40714	44001	47115	50098
-5°	18401	21074	23939	26880	30013	33228	36664	40112	43328	46359	49039
-7.5°	18031	20681	23468	26350	29358	32436	35658	38891	42042	44971	47591
-10°	17513	20092	22760	25535	28387	31263	34348	37522	40499	43227	45728
-12.5°	16829	19312	21801	24481	27226	29947	32811	35670	38451	41017	43316
-15°	16001	18407	20747	23266	25892	28506	31120	33580	36087	38469	40589
-17.5°	15066	17359	19639	21950	24385	26815	29161	31394	33621	35771	37665
-20°	14018	16269	18359	20550	22783	24927	27089	29149	31102	32948	34467



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 CATALOG NUMBER: EPH-VN-08-D-735-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	12845	14941	16989	18954	21015	22992	24915	26821	28572	30102	31436
-25°	11576	13583	15524	17376	19193	21009	22766	24439	25963	27291	28476
-27.5°	10373	12124	13940	15691	17370	18996	20592	22081	23385	24469	25564
-30°	9159	10671	12303	13934	15501	17007	18413	19717	20908	21938	22819
-32.5°	8123	9284	10683	12142	13577	14965	16358	17442	18466	19383	20169
-35°	7146	8128	9141	10397	11636	12886	14054	15149	16132	16936	17603
-37.5°	6294	7074	7926	8789	9832	10856	11874	12839	13702	14494	15125
-40°	5556	6145	6836	7515	8283	9010	9879	10647	11374	12083	12684
-42.5°	4883	5383	5883	6449	7003	7581	8194	8742	9313	9873	10338
-45°	4317	4716	5109	5550	5955	6413	6848	7283	7664	8045	8367
-47.5°	3841	4127	4460	4788	5109	5449	5764	6062	6372	6634	6854
-50°	3400	3638	3895	4133	4395	4645	4871	5097	5324	5520	5681
-52.5°	3025	3210	3406	3591	3793	3972	4139	4317	4478	4621	4740
-55°	2674	2829	2983	3132	3281	3418	3549	3680	3799	3895	3978
-57.5°	2370	2495	2614	2739	2846	2948	3049	3150	3240	3311	3371
-60°	2096	2197	2293	2388	2483	2561	2644	2715	2775	2829	2876
-62.5°	1852	1935	2013	2090	2150	2215	2281	2340	2388	2430	2459
-65°	1632	1703	1769	1828	1882	1935	1977	2019	2054	2084	2102
-67.5°	1435	1489	1542	1596	1644	1685	1715	1745	1769	1792	1804
-70°	1257	1298	1340	1382	1423	1453	1477	1501	1513	1519	1519
-72.5°	1084	1120	1155	1191	1221	1239	1257	1268	1280	1257	1221
-75°	917	947	971	995	1018	1030	1036	1036	1036	989	929
-77.5°	733	768	792	810	828	834	828	828	822	768	703
-80°	590	619	637	655	673	667	661	649	643	584	524
-82.5°	447	465	476	494	506	506	500	494	482	435	381
-85°	298	304	304	304	304	304	304	304	304	274	244
-87.5°	149	149	149	149	143	149	149	155	161	143	125
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	101	83	77	66	77	83	101	125	143	161	155
85°	208	173	167	155	167	173	208	244	274	304	304
82.5°	334	274	262	250	262	274	334	381	435	482	494
80°	470	399	387	375	387	399	470	524	584	643	649
77.5°	637	572	548	530	548	572	637	703	768	822	828
75°	864	798	780	762	780	798	864	929	989	1036	1036
72.5°	1179	1149	1102	1060	1102	1149	1179	1221	1257	1280	1268
70°	1525	1536	1525	1507	1525	1536	1525	1519	1519	1513	1501
67.5°	1810	1822	1822	1828	1822	1822	1810	1804	1792	1769	1745
65°	2120	2126	2144	2150	2144	2126	2120	2102	2084	2054	2019
62.5°	2477	2495	2507	2507	2507	2495	2477	2459	2430	2388	2340
60°	2906	2930	2960	2966	2960	2930	2906	2876	2829	2775	2715
57.5°	3418	3448	3490	3502	3490	3448	3418	3371	3311	3240	3150
55°	4037	4079	4103	4091	4103	4079	4037	3978	3895	3799	3680
52.5°	4841	4913	4960	4937	4960	4913	4841	4740	4621	4478	4317
50°	5812	5901	5961	5943	5961	5901	5812	5681	5520	5324	5097
47.5°	7027	7152	7253	7259	7253	7152	7027	6854	6634	6372	6062
45°	8623	8807	8944	8920	8944	8807	8623	8367	8045	7664	7283
42.5°	10695	10951	11154	11136	11154	10951	10695	10338	9873	9313	8742
40°	13131	13446	13714	13786	13714	13446	13131	12684	12083	11374	10647
37.5°	15638	16043	16382	16346	16382	16043	15638	15125	14494	13702	12839
35°	18156	18579	18913	18943	18913	18579	18156	17603	16936	16132	15149
32.5°	20795	21265	21658	21712	21658	21265	20795	20169	19383	18466	17442
30°	23546	24111	24582	24677	24582	24111	23546	22819	21938	20908	19717
27.5°	26440	27113	27559	27732	27559	27113	26440	25564	24469	23385	22081
25°	29423	30156	30656	30936	30656	30156	29423	28476	27291	25963	24439
22.5°	32538	33407	34056	34366	34056	33407	32538	31436	30102	28572	26821
20°	35753	36700	37456	37778	37456	36700	35753	34467	32948	31102	29149
17.5°	39028	40184	41023	41434	41023	40184	39028	37665	35771	33621	31394
15°	42208	43435	44346	44787	44346	43435	42208	40589	38469	36087	33580
12.5°	45156	46454	47365	48002	47365	46454	45156	43316	41017	38451	35670
10°	47788	49205	50128	50789	50128	49205	47788	45728	43227	40499	37522
7.5°	49759	51551	52594	53243	52594	51551	49759	47591	44971	42042	38891
5°	51272	53249	54195	54809	54195	53249	51272	49039	46359	43328	40112
2.5°	52379	53939	55124	55738	55124	53939	52379	50098	47115	44001	40714
0°	52814	54648	55488	55887	55488	54648	52814	50426	47621	44239	40868
-2.5°	52379	53939	55124	55738	55124	53939	52379	50098	47115	44001	40714
-5°	51272	53249	54195	54809	54195	53249	51272	49039	46359	43328	40112
-7.5°	49759	51551	52594	53243	52594	51551	49759	47591	44971	42042	38891
-10°	47788	49205	50128	50789	50128	49205	47788	45728	43227	40499	37522
-12.5°	45156	46454	47365	48002	47365	46454	45156	43316	41017	38451	35670
-15°	42208	43435	44346	44787	44346	43435	42208	40589	38469	36087	33580
-17.5°	39028	40184	41023	41434	41023	40184	39028	37665	35771	33621	31394
-20°	35753	36700	37456	37778	37456	36700	35753	34467	32948	31102	29149



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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°	32538	33407	34056	34366	34056	33407	32538	31436	30102	28572	26821
-25°	29423	30156	30656	30936	30656	30156	29423	28476	27291	25963	24439
-27.5°	26440	27113	27559	27732	27559	27113	26440	25564	24469	23385	22081
-30°	23546	24111	24582	24677	24582	24111	23546	22819	21938	20908	19717
-32.5°	20795	21265	21658	21712	21658	21265	20795	20169	19383	18466	17442
-35°	18156	18579	18913	18943	18913	18579	18156	17603	16936	16132	15149
-37.5°	15638	16043	16382	16346	16382	16043	15638	15125	14494	13702	12839
-40°	13131	13446	13714	13786	13714	13446	13131	12684	12083	11374	10647
-42.5°	10695	10951	11154	11136	11154	10951	10695	10338	9873	9313	8742
-45°	8623	8807	8944	8920	8944	8807	8623	8367	8045	7664	7283
-47.5°	7027	7152	7253	7259	7253	7152	7027	6854	6634	6372	6062
-50°	5812	5901	5961	5943	5961	5901	5812	5681	5520	5324	5097
-52.5°	4841	4913	4960	4937	4960	4913	4841	4740	4621	4478	4317
-55°	4037	4079	4103	4091	4103	4079	4037	3978	3895	3799	3680
-57.5°	3418	3448	3490	3502	3490	3448	3418	3371	3311	3240	3150
-60°	2906	2930	2960	2966	2960	2930	2906	2876	2829	2775	2715
-62.5°	2477	2495	2507	2507	2507	2495	2477	2459	2430	2388	2340
-65°	2120	2126	2144	2150	2144	2126	2120	2102	2084	2054	2019
-67.5°	1810	1822	1822	1828	1822	1822	1810	1804	1792	1769	1745
-70°	1525	1536	1525	1507	1525	1536	1525	1519	1519	1513	1501
-72.5°	1179	1149	1102	1060	1102	1149	1179	1221	1257	1280	1268
-75°	864	798	780	762	780	798	864	929	989	1036	1036
-77.5°	637	572	548	530	548	572	637	703	768	822	828
-80°	470	399	387	375	387	399	470	524	584	643	649
-82.5°	334	274	262	250	262	274	334	381	435	482	494
-85°	208	173	167	155	167	173	208	244	274	304	304
-87.5°	101	83	77	66	77	83	101	125	143	161	155
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P621383
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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°	149	149	143	149	149	149	149	131	119	107	95
85°	304	304	304	304	304	304	298	274	244	220	197
82.5°	500	506	506	494	476	465	447	405	363	328	292
80°	661	667	673	655	637	619	590	536	482	429	387
77.5°	828	834	828	810	792	768	733	679	625	572	530
75°	1036	1030	1018	995	971	947	917	869	810	744	697
72.5°	1257	1239	1221	1191	1155	1120	1084	1042	995	941	893
70°	1477	1453	1423	1382	1340	1298	1257	1203	1155	1102	1054
67.5°	1715	1685	1644	1596	1542	1489	1435	1376	1316	1257	1203
65°	1977	1935	1882	1828	1769	1703	1632	1560	1495	1417	1352
62.5°	2281	2215	2150	2090	2013	1935	1852	1769	1685	1602	1513
60°	2644	2561	2483	2388	2293	2197	2096	1995	1888	1792	1685
57.5°	3049	2948	2846	2739	2614	2495	2370	2239	2120	1995	1870
55°	3549	3418	3281	3132	2983	2829	2674	2519	2370	2209	2072
52.5°	4139	3972	3793	3591	3406	3210	3025	2829	2644	2459	2281
50°	4871	4645	4395	4133	3895	3638	3400	3168	2942	2727	2513
47.5°	5764	5449	5109	4788	4460	4127	3841	3561	3275	3007	2769
45°	6848	6413	5955	5550	5109	4716	4317	3972	3638	3335	3031
42.5°	8194	7581	7003	6449	5883	5383	4883	4454	4049	3674	3335
40°	9879	9010	8283	7515	6836	6145	5556	5002	4502	4055	3638
37.5°	11874	10856	9832	8789	7926	7074	6294	5610	5008	4466	3984
35°	14054	12886	11636	10397	9141	8128	7146	6288	5556	4901	4341
32.5°	16358	14965	13577	12142	10683	9284	8123	7057	6140	5389	4728
30°	18413	17007	15501	13934	12303	10671	9159	7920	6830	5883	5121
27.5°	20592	18996	17370	15691	13940	12124	10373	8795	7521	6455	5556
25°	22766	21009	19193	17376	15524	13583	11576	9796	8283	7021	5943
22.5°	24915	22992	21015	18954	16989	14941	12845	10766	8986	7581	6396
20°	27089	24927	22783	20550	18359	16269	14018	11791	9814	8158	6812
17.5°	29161	26815	24385	21950	19639	17359	15066	12779	10576	8682	7229
15°	31120	28506	25892	23266	20747	18407	16001	13637	11296	9236	7593
12.5°	32811	29947	27226	24481	21801	19312	16829	14381	11975	9772	7962
10°	34348	31263	28387	25535	22760	20092	17513	15000	12529	10207	8259
7.5°	35658	32436	29358	26350	23468	20681	18031	15477	12958	10540	8492
5°	36664	33228	30013	26880	23939	21074	18401	15816	13262	10778	8641
2.5°	37141	33699	30364	27172	24344	21426	18734	16120	13518	11005	8801
0°	37379	33871	30525	27422	24516	21569	18823	16162	13512	11034	8813
-2.5°	37141	33699	30364	27172	24344	21426	18734	16120	13518	11005	8801
-5°	36664	33228	30013	26880	23939	21074	18401	15816	13262	10778	8641
-7.5°	35658	32436	29358	26350	23468	20681	18031	15477	12958	10540	8492
-10°	34348	31263	28387	25535	22760	20092	17513	15000	12529	10207	8259
-12.5°	32811	29947	27226	24481	21801	19312	16829	14381	11975	9772	7962
-15°	31120	28506	25892	23266	20747	18407	16001	13637	11296	9236	7593
-17.5°	29161	26815	24385	21950	19639	17359	15066	12779	10576	8682	7229
-20°	27089	24927	22783	20550	18359	16269	14018	11791	9814	8158	6812



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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°	24915	22992	21015	18954	16989	14941	12845	10766	8986	7581	6396
-25°	22766	21009	19193	17376	15524	13583	11576	9796	8283	7021	5943
-27.5°	20592	18996	17370	15691	13940	12124	10373	8795	7521	6455	5556
-30°	18413	17007	15501	13934	12303	10671	9159	7920	6830	5883	5121
-32.5°	16358	14965	13577	12142	10683	9284	8123	7057	6140	5389	4728
-35°	14054	12886	11636	10397	9141	8128	7146	6288	5556	4901	4341
-37.5°	11874	10856	9832	8789	7926	7074	6294	5610	5008	4466	3984
-40°	9879	9010	8283	7515	6836	6145	5556	5002	4502	4055	3638
-42.5°	8194	7581	7003	6449	5883	5383	4883	4454	4049	3674	3335
-45°	6848	6413	5955	5550	5109	4716	4317	3972	3638	3335	3031
-47.5°	5764	5449	5109	4788	4460	4127	3841	3561	3275	3007	2769
-50°	4871	4645	4395	4133	3895	3638	3400	3168	2942	2727	2513
-52.5°	4139	3972	3793	3591	3406	3210	3025	2829	2644	2459	2281
-55°	3549	3418	3281	3132	2983	2829	2674	2519	2370	2209	2072
-57.5°	3049	2948	2846	2739	2614	2495	2370	2239	2120	1995	1870
-60°	2644	2561	2483	2388	2293	2197	2096	1995	1888	1792	1685
-62.5°	2281	2215	2150	2090	2013	1935	1852	1769	1685	1602	1513
-65°	1977	1935	1882	1828	1769	1703	1632	1560	1495	1417	1352
-67.5°	1715	1685	1644	1596	1542	1489	1435	1376	1316	1257	1203
-70°	1477	1453	1423	1382	1340	1298	1257	1203	1155	1102	1054
-72.5°	1257	1239	1221	1191	1155	1120	1084	1042	995	941	893
-75°	1036	1030	1018	995	971	947	917	869	810	744	697
-77.5°	828	834	828	810	792	768	733	679	625	572	530
-80°	661	667	673	655	637	619	590	536	482	429	387
-82.5°	500	506	506	494	476	465	447	405	363	328	292
-85°	304	304	304	304	304	304	298	274	244	220	197
-87.5°	149	149	143	149	149	149	149	131	119	107	95
-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°	101	107	113	113	113	107	101	95	83	77	72
85°	208	214	226	232	220	214	197	185	173	155	143
82.5°	310	322	334	334	322	310	292	274	256	232	208
80°	411	429	447	447	429	405	381	357	334	304	274
77.5°	542	554	560	566	542	518	488	447	411	375	339
75°	685	685	691	679	655	637	596	548	494	447	399
72.5°	858	828	816	798	756	721	691	649	578	512	459
70°	1006	965	929	893	852	804	768	715	655	578	512
67.5°	1149	1096	1042	995	941	893	840	774	709	637	566
65°	1292	1227	1161	1096	1036	977	917	840	762	691	613
62.5°	1435	1358	1280	1203	1131	1060	995	905	816	738	655
60°	1584	1501	1411	1322	1233	1149	1066	971	875	780	697
57.5°	1757	1638	1536	1435	1334	1239	1137	1036	935	834	733
55°	1929	1798	1667	1554	1441	1334	1215	1102	989	881	768
52.5°	2114	1959	1816	1673	1548	1423	1298	1179	1048	929	792
50°	2316	2132	1965	1804	1656	1519	1382	1245	1108	977	822
47.5°	2531	2316	2120	1935	1775	1608	1459	1316	1167	1030	852
45°	2769	2513	2281	2078	1882	1703	1542	1382	1227	1066	869
42.5°	3001	2721	2459	2209	2001	1798	1626	1453	1286	1096	899
40°	3275	2930	2638	2370	2120	1894	1697	1519	1346	1131	923
37.5°	3561	3162	2823	2513	2239	1995	1781	1578	1388	1167	947
35°	3847	3400	3007	2662	2364	2096	1858	1644	1429	1197	971
32.5°	4145	3638	3192	2811	2483	2197	1935	1703	1477	1233	989
30°	4472	3889	3382	2954	2596	2287	2013	1763	1525	1262	1006
27.5°	4782	4121	3567	3108	2715	2382	2084	1822	1578	1292	1030
25°	5091	4371	3764	3251	2829	2465	2156	1876	1626	1328	1048
22.5°	5425	4615	3942	3388	2930	2549	2221	1935	1667	1364	1066
20°	5729	4835	4097	3519	3037	2632	2287	1983	1703	1399	1084
17.5°	6009	5062	4288	3656	3138	2710	2340	2025	1739	1429	1096
15°	6312	5288	4454	3775	3228	2775	2394	2066	1769	1459	1102
12.5°	6574	5479	4597	3883	3305	2829	2436	2096	1798	1489	1114
10°	6789	5633	4716	3966	3365	2876	2465	2126	1816	1507	1120
7.5°	6955	5752	4806	4032	3412	2912	2495	2144	1834	1525	1120
5°	7080	5842	4865	4079	3448	2942	2519	2162	1852	1548	1126
2.5°	7194	5937	4913	4121	3478	2966	2537	2174	1852	1542	1114
0°	7211	5955	4907	4121	3478	2972	2537	2174	1846	1536	1102
-2.5°	7194	5937	4913	4121	3478	2966	2537	2174	1852	1542	1114
-5°	7080	5842	4865	4079	3448	2942	2519	2162	1852	1548	1126
-7.5°	6955	5752	4806	4032	3412	2912	2495	2144	1834	1525	1120
-10°	6789	5633	4716	3966	3365	2876	2465	2126	1816	1507	1120
-12.5°	6574	5479	4597	3883	3305	2829	2436	2096	1798	1489	1114
-15°	6312	5288	4454	3775	3228	2775	2394	2066	1769	1459	1102
-17.5°	6009	5062	4288	3656	3138	2710	2340	2025	1739	1429	1096
-20°	5729	4835	4097	3519	3037	2632	2287	1983	1703	1399	1084



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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°	5425	4615	3942	3388	2930	2549	2221	1935	1667	1364	1066
-25°	5091	4371	3764	3251	2829	2465	2156	1876	1626	1328	1048
-27.5°	4782	4121	3567	3108	2715	2382	2084	1822	1578	1292	1030
-30°	4472	3889	3382	2954	2596	2287	2013	1763	1525	1262	1006
-32.5°	4145	3638	3192	2811	2483	2197	1935	1703	1477	1233	989
-35°	3847	3400	3007	2662	2364	2096	1858	1644	1429	1197	971
-37.5°	3561	3162	2823	2513	2239	1995	1781	1578	1388	1167	947
-40°	3275	2930	2638	2370	2120	1894	1697	1519	1346	1131	923
-42.5°	3001	2721	2459	2209	2001	1798	1626	1453	1286	1096	899
-45°	2769	2513	2281	2078	1882	1703	1542	1382	1227	1066	869
-47.5°	2531	2316	2120	1935	1775	1608	1459	1316	1167	1030	852
-50°	2316	2132	1965	1804	1656	1519	1382	1245	1108	977	822
-52.5°	2114	1959	1816	1673	1548	1423	1298	1179	1048	929	792
-55°	1929	1798	1667	1554	1441	1334	1215	1102	989	881	768
-57.5°	1757	1638	1536	1435	1334	1239	1137	1036	935	834	733
-60°	1584	1501	1411	1322	1233	1149	1066	971	875	780	697
-62.5°	1435	1358	1280	1203	1131	1060	995	905	816	738	655
-65°	1292	1227	1161	1096	1036	977	917	840	762	691	613
-67.5°	1149	1096	1042	995	941	893	840	774	709	637	566
-70°	1006	965	929	893	852	804	768	715	655	578	512
-72.5°	858	828	816	798	756	721	691	649	578	512	459
-75°	685	685	691	679	655	637	596	548	494	447	399
-77.5°	542	554	560	566	542	518	488	447	411	375	339
-80°	411	429	447	447	429	405	381	357	334	304	274
-82.5°	310	322	334	334	322	310	292	274	256	232	208
-85°	208	214	226	232	220	214	197	185	173	155	143
-87.5°	101	107	113	113	113	107	101	95	83	77	72
-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°	60	48	36	24	12	6	0
85°	125	95	66	42	24	12	0
82.5°	185	137	101	66	42	18	0
80°	244	185	131	89	54	24	0
77.5°	298	226	167	107	66	30	0
75°	345	262	197	131	77	36	0
72.5°	393	298	220	149	89	42	0
70°	441	334	244	173	101	48	0
67.5°	476	363	268	185	113	54	0
65°	506	393	286	197	125	54	0
62.5°	536	417	304	208	137	60	0
60°	572	441	328	220	143	66	0
57.5°	596	459	339	232	149	72	0
55°	619	482	351	244	161	77	0
52.5°	643	500	369	250	167	77	0
50°	661	518	381	256	173	83	0
47.5°	685	530	387	262	179	89	0
45°	703	548	399	268	185	89	0
42.5°	721	560	405	274	185	95	0
40°	738	566	417	286	191	101	0
37.5°	750	578	423	292	197	101	0
35°	756	584	429	298	203	107	0
32.5°	768	596	435	310	203	107	0
30°	786	596	435	316	208	107	0
27.5°	798	601	447	316	208	113	0
25°	804	601	453	322	214	113	0
22.5°	810	607	459	328	214	113	0
20°	816	613	465	334	220	119	0
17.5°	822	625	470	334	220	119	0
15°	834	631	470	334	220	125	0
12.5°	840	631	470	339	220	125	0
10°	846	637	470	339	226	119	0
7.5°	846	637	476	339	226	119	0
5°	846	643	470	339	220	119	0
2.5°	834	643	470	334	220	119	0
0°	828	637	465	334	220	119	0
-2.5°	834	643	470	334	220	119	0
-5°	846	643	470	339	220	119	0
-7.5°	846	637	476	339	226	119	0
-10°	846	637	470	339	226	119	0
-12.5°	840	631	470	339	220	125	0
-15°	834	631	470	334	220	125	0
-17.5°	822	625	470	334	220	119	0
-20°	816	613	465	334	220	119	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	810	607	459	328	214	113	0
-25°	804	601	453	322	214	113	0
-27.5°	798	601	447	316	208	113	0
-30°	786	596	435	316	208	107	0
-32.5°	768	596	435	310	203	107	0
-35°	756	584	429	298	203	107	0
-37.5°	750	578	423	292	197	101	0
-40°	738	566	417	286	191	101	0
-42.5°	721	560	405	274	185	95	0
-45°	703	548	399	268	185	89	0
-47.5°	685	530	387	262	179	89	0
-50°	661	518	381	256	173	83	0
-52.5°	643	500	369	250	167	77	0
-55°	619	482	351	244	161	77	0
-57.5°	596	459	339	232	149	72	0
-60°	572	441	328	220	143	66	0
-62.5°	536	417	304	208	137	60	0
-65°	506	393	286	197	125	54	0
-67.5°	476	363	268	185	113	54	0
-70°	441	334	244	173	101	48	0
-72.5°	393	298	220	149	89	42	0
-75°	345	262	197	131	77	36	0
-77.5°	298	226	167	107	66	30	0
-80°	244	185	131	89	54	24	0
-82.5°	185	137	101	66	42	18	0
-85°	125	95	66	42	24	12	0
-87.5°	60	48	36	24	12	6	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)