

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: P621378

Luminaire Tested: **EPH-VN-08-D-730-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P621378
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-730-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

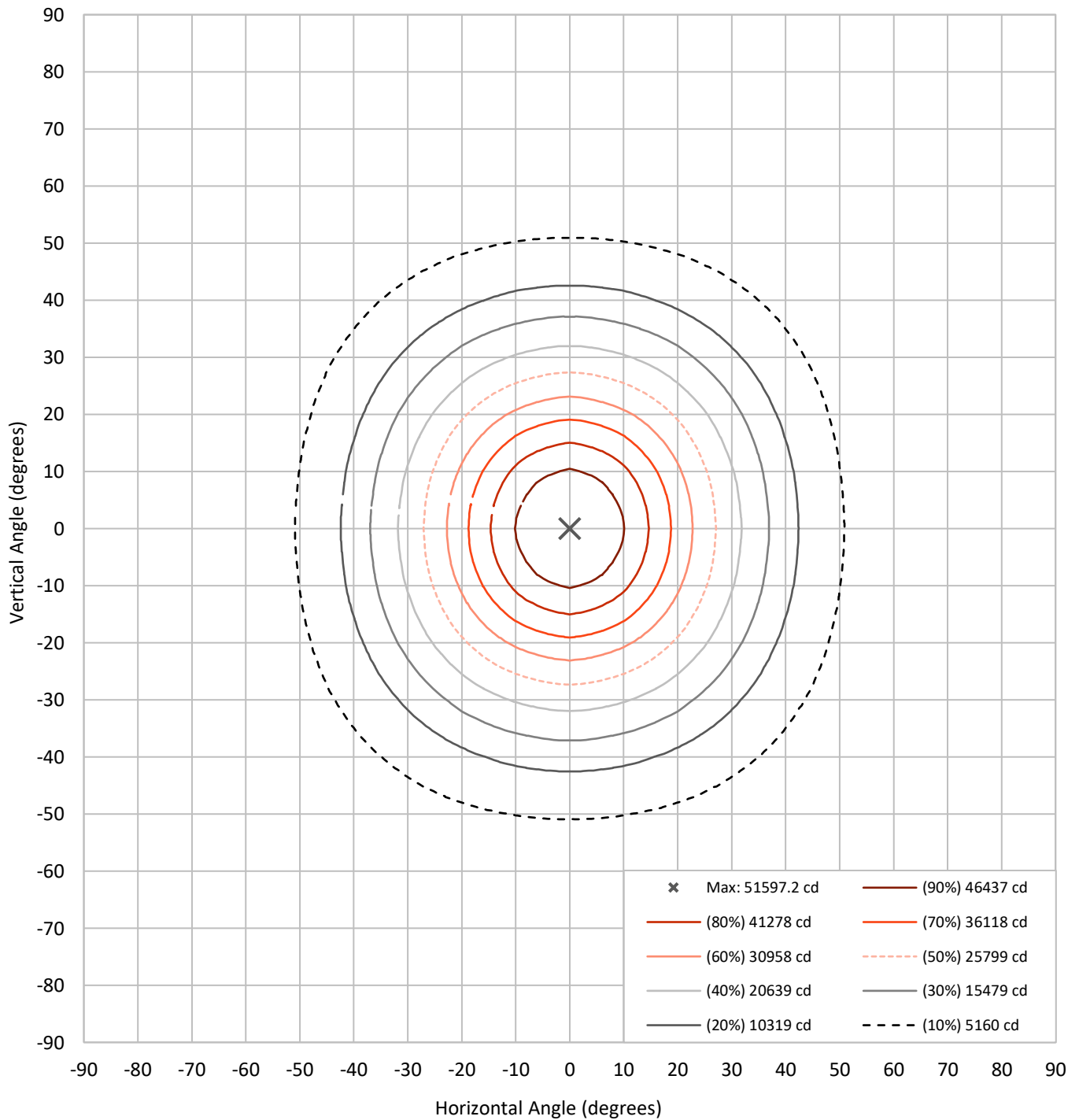
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	53514.8 lumens	Max Intensity:	51597.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	109.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	25730.1 lumens	Field Lumens:	46964.5 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





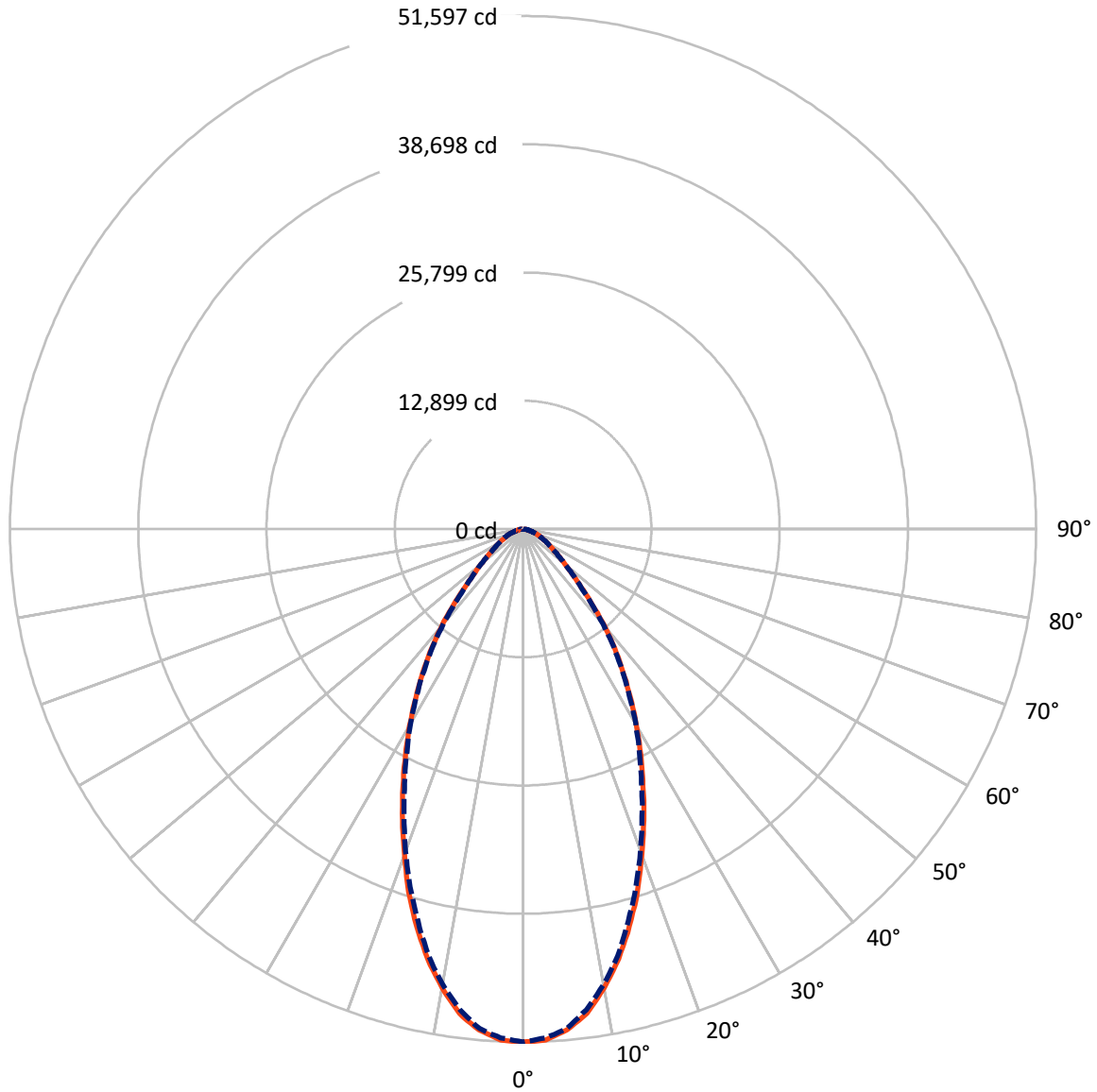
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Lumen Table

90																
80	3.8	23.0		46.2		70.4		60.4		70.4		46.2		23.0		3.8
70																
60	9.4	10.1	17.8	27.1	38.0	48.5	56.6	60.6	60.6	56.6	48.5	38.0	27.1	17.8	10.1	9.4
50		13.3	25.3	41.6	62.3	84.9	105.3	117.5	117.5	105.3	84.9	62.3	41.6	25.3	13.3	
40	12.6	16.6	34.0	61.3	101.7	155.9	214.6	254.6	254.6	214.6	155.9	101.7	61.3	34.0	16.6	12.6
30		19.8	43.8	88.2	169.2	299.2	435.2	519.7	519.7	435.2	299.2	169.2	88.2	43.8	19.8	
20	14.6	22.8	53.9	122.2	270.7	488.6	701.9	842.3	842.3	701.9	488.6	270.7	122.2	53.9	22.8	14.6
10		25.2	62.9	157.3	368.8	657.9	974.3	1203.0	1203.0	974.3	657.9	368.8	157.3	62.9	25.2	
0	15.3	26.4	68.3	180.3	425.7	763.1	1162.1	1460.6	1460.6	1162.1	763.1	425.7	180.3	68.3	26.4	15.3
-10		26.4	68.3	180.3	425.7	763.1	1162.1	1460.6	1460.6	1162.1	763.1	425.7	180.3	68.3	26.4	
-20	14.6	25.2	62.9	157.3	368.8	657.9	974.3	1203.0	1203.0	974.3	657.9	368.8	157.3	62.9	25.2	14.6
-30		22.8	53.9	122.2	270.7	488.6	701.9	842.3	842.3	701.9	488.6	270.7	122.2	53.9	22.8	
-40	12.6	19.8	43.8	88.2	169.2	299.2	435.2	519.7	519.7	435.2	299.2	169.2	88.2	43.8	19.8	12.6
-50		16.6	34.0	61.3	101.7	155.9	214.6	254.6	254.6	214.6	155.9	101.7	61.3	34.0	16.6	
-60	9.4	13.3	25.3	41.6	62.3	84.9	105.3	117.5	117.5	105.3	84.9	62.3	41.6	25.3	13.3	9.4
-70		10.1	17.8	27.1	38.0	48.5	56.6	60.6	60.6	56.6	48.5	38.0	27.1	17.8	10.1	
-80																
-90	3.8	23.0		46.2		70.4		60.4		70.4		46.2		23.0		3.8

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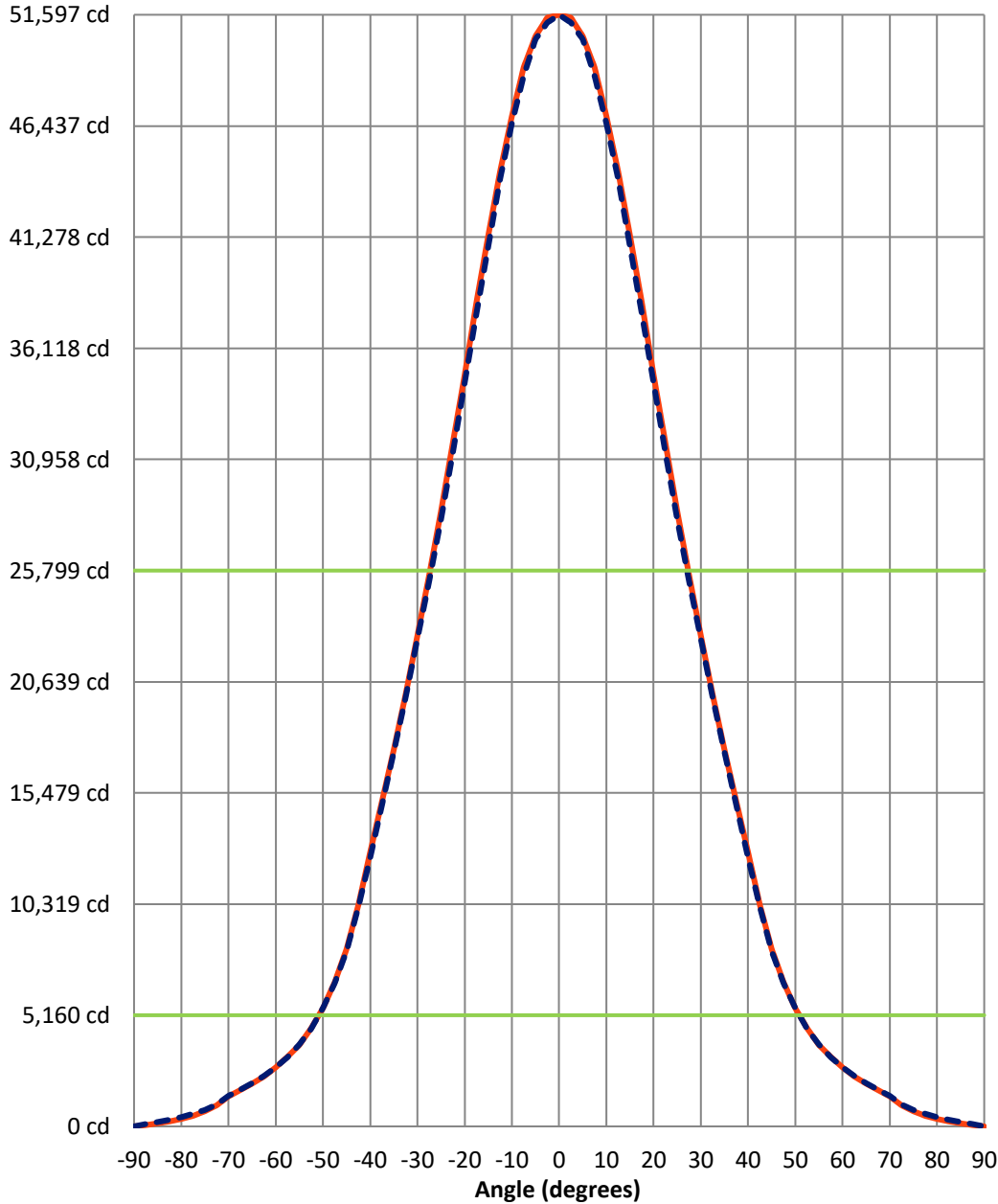
Luminous Intensity Polar Plot



— 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: 25730.1
Efficiency: 48.1%

Field:
H Angle: 101.7°
V Angle: 101.8°
Lumens: 46964.5
Efficiency: 87.8%

Spill:
Lumens: 6550.3
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	6	11	22	33	44	55	66	72	77	88
85°	0	11	22	39	61	88	116	132	143	159	170
82.5°	0	17	39	61	94	127	170	192	214	236	253
80°	0	22	50	83	121	170	225	253	280	308	330
77.5°	0	28	61	99	154	209	275	313	346	379	412
75°	0	33	72	121	181	242	319	368	412	456	506
72.5°	0	39	83	137	203	275	363	423	473	533	599
70°	0	44	94	159	225	308	407	473	533	605	660
67.5°	0	50	105	170	247	335	440	522	588	654	715
65°	0	50	116	181	264	363	467	566	638	704	775
62.5°	0	55	127	192	280	385	495	605	682	753	836
60°	0	61	132	203	302	407	528	643	720	808	896
57.5°	0	66	137	214	313	423	550	676	770	863	957
55°	0	72	148	225	324	445	572	709	814	913	1017
52.5°	0	72	154	231	341	462	594	731	858	968	1089
50°	0	77	159	236	352	478	610	759	902	1023	1149
47.5°	0	83	165	242	357	489	632	786	951	1078	1215
45°	0	83	170	247	368	506	649	803	984	1133	1276
42.5°	0	88	170	253	374	517	665	830	1012	1188	1342
40°	0	94	176	264	385	522	682	852	1045	1243	1402
37.5°	0	94	181	269	390	533	693	874	1078	1281	1457
35°	0	99	187	275	396	539	698	896	1105	1320	1517
32.5°	0	99	187	286	401	550	709	913	1138	1364	1572
30°	0	99	192	291	401	550	726	929	1166	1407	1627
27.5°	0	105	192	291	412	555	737	951	1193	1457	1682
25°	0	105	198	297	418	555	742	968	1226	1501	1732
22.5°	0	105	198	302	423	561	748	984	1259	1539	1787
20°	0	110	203	308	429	566	753	1001	1292	1572	1831
17.5°	0	110	203	308	434	577	759	1012	1320	1605	1869
15°	0	116	203	308	434	583	770	1017	1347	1633	1908
12.5°	0	116	203	313	434	583	775	1028	1375	1660	1935
10°	0	110	209	313	434	588	781	1034	1391	1677	1963
7.5°	0	110	209	313	440	588	781	1034	1407	1693	1979
5°	0	110	203	313	434	594	781	1039	1429	1710	1996
2.5°	0	110	203	308	434	594	770	1028	1424	1710	2007
0°	0	110	203	308	429	588	764	1017	1418	1704	2007
-2.5°	0	110	203	308	434	594	770	1028	1424	1710	2007
-5°	0	110	203	313	434	594	781	1039	1429	1710	1996
-7.5°	0	110	209	313	440	588	781	1034	1407	1693	1979
-10°	0	110	209	313	434	588	781	1034	1391	1677	1963
-12.5°	0	116	203	313	434	583	775	1028	1375	1660	1935
-15°	0	116	203	308	434	583	770	1017	1347	1633	1908
-17.5°	0	110	203	308	434	577	759	1012	1320	1605	1869
-20°	0	110	203	308	429	566	753	1001	1292	1572	1831



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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	105	198	302	423	561	748	984	1259	1539	1787
-25°	0	105	198	297	418	555	742	968	1226	1501	1732
-27.5°	0	105	192	291	412	555	737	951	1193	1457	1682
-30°	0	99	192	291	401	550	726	929	1166	1407	1627
-32.5°	0	99	187	286	401	550	709	913	1138	1364	1572
-35°	0	99	187	275	396	539	698	896	1105	1320	1517
-37.5°	0	94	181	269	390	533	693	874	1078	1281	1457
-40°	0	94	176	264	385	522	682	852	1045	1243	1402
-42.5°	0	88	170	253	374	517	665	830	1012	1188	1342
-45°	0	83	170	247	368	506	649	803	984	1133	1276
-47.5°	0	83	165	242	357	489	632	786	951	1078	1215
-50°	0	77	159	236	352	478	610	759	902	1023	1149
-52.5°	0	72	154	231	341	462	594	731	858	968	1089
-55°	0	72	148	225	324	445	572	709	814	913	1017
-57.5°	0	66	137	214	313	423	550	676	770	863	957
-60°	0	61	132	203	302	407	528	643	720	808	896
-62.5°	0	55	127	192	280	385	495	605	682	753	836
-65°	0	50	116	181	264	363	467	566	638	704	775
-67.5°	0	50	105	170	247	335	440	522	588	654	715
-70°	0	44	94	159	225	308	407	473	533	605	660
-72.5°	0	39	83	137	203	275	363	423	473	533	599
-75°	0	33	72	121	181	242	319	368	412	456	506
-77.5°	0	28	61	99	154	209	275	313	346	379	412
-80°	0	22	50	83	121	170	225	253	280	308	330
-82.5°	0	17	39	61	94	127	170	192	214	236	253
-85°	0	11	22	39	61	88	116	132	143	159	170
-87.5°	0	6	11	22	33	44	55	66	72	77	88
-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°	94	99	105	105	105	99	94	88	99	110	121
85°	181	198	203	214	209	198	192	181	203	225	253
82.5°	269	286	297	308	308	297	286	269	302	335	374
80°	352	374	396	412	412	396	379	357	396	445	495
77.5°	451	478	500	522	517	511	500	489	528	577	627
75°	550	588	605	627	638	632	632	643	687	748	803
72.5°	638	665	698	737	753	764	792	825	869	918	962
70°	709	742	786	825	858	891	929	973	1017	1067	1111
67.5°	775	825	869	918	962	1012	1061	1111	1160	1215	1270
65°	847	902	957	1012	1072	1133	1193	1248	1309	1380	1440
62.5°	918	979	1045	1111	1182	1254	1325	1397	1479	1556	1633
60°	984	1061	1138	1221	1303	1386	1462	1556	1655	1743	1842
57.5°	1050	1144	1232	1325	1418	1512	1622	1726	1842	1957	2067
55°	1122	1232	1331	1435	1539	1660	1781	1913	2040	2188	2326
52.5°	1199	1314	1429	1545	1677	1809	1952	2106	2271	2441	2612
50°	1276	1402	1528	1666	1814	1968	2139	2320	2518	2716	2925
47.5°	1347	1484	1638	1787	1957	2139	2337	2557	2776	3024	3288
45°	1424	1572	1737	1919	2106	2320	2557	2798	3079	3359	3667
42.5°	1501	1660	1847	2040	2271	2513	2771	3079	3392	3739	4112
40°	1567	1748	1957	2188	2436	2705	3024	3359	3744	4156	4618
37.5°	1644	1842	2067	2320	2606	2919	3288	3678	4123	4624	5179
35°	1715	1935	2183	2458	2776	3139	3552	4008	4525	5130	5806
32.5°	1787	2029	2293	2595	2947	3359	3827	4365	4976	5668	6515
30°	1858	2111	2397	2727	3123	3590	4129	4728	5432	6306	7312
27.5°	1924	2199	2507	2870	3293	3805	4415	5130	5960	6944	8120
25°	1990	2276	2612	3002	3475	4035	4701	5487	6482	7648	9044
22.5°	2051	2353	2705	3128	3640	4261	5009	5905	6999	8296	9940
20°	2111	2430	2804	3249	3783	4464	5289	6290	7532	9060	10886
17.5°	2161	2502	2897	3376	3958	4673	5547	6674	8016	9764	11798
15°	2210	2562	2980	3486	4112	4882	5828	7010	8527	10429	12590
12.5°	2249	2612	3051	3585	4244	5058	6070	7351	9022	11056	13277
10°	2276	2656	3106	3662	4354	5201	6268	7626	9423	11568	13849
7.5°	2304	2688	3150	3722	4437	5311	6422	7840	9731	11963	14289
5°	2326	2716	3183	3766	4492	5393	6537	7977	9951	12244	14602
2.5°	2342	2738	3211	3805	4536	5481	6641	8126	10160	12480	14883
0°	2342	2743	3211	3805	4530	5498	6658	8137	10188	12475	14921
-2.5°	2342	2738	3211	3805	4536	5481	6641	8126	10160	12480	14883
-5°	2326	2716	3183	3766	4492	5393	6537	7977	9951	12244	14602
-7.5°	2304	2688	3150	3722	4437	5311	6422	7840	9731	11963	14289
-10°	2276	2656	3106	3662	4354	5201	6268	7626	9423	11568	13849
-12.5°	2249	2612	3051	3585	4244	5058	6070	7351	9022	11056	13277
-15°	2210	2562	2980	3486	4112	4882	5828	7010	8527	10429	12590
-17.5°	2161	2502	2897	3376	3958	4673	5547	6674	8016	9764	11798
-20°	2111	2430	2804	3249	3783	4464	5289	6290	7532	9060	10886



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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°	2051	2353	2705	3128	3640	4261	5009	5905	6999	8296	9940
-25°	1990	2276	2612	3002	3475	4035	4701	5487	6482	7648	9044
-27.5°	1924	2199	2507	2870	3293	3805	4415	5130	5960	6944	8120
-30°	1858	2111	2397	2727	3123	3590	4129	4728	5432	6306	7312
-32.5°	1787	2029	2293	2595	2947	3359	3827	4365	4976	5668	6515
-35°	1715	1935	2183	2458	2776	3139	3552	4008	4525	5130	5806
-37.5°	1644	1842	2067	2320	2606	2919	3288	3678	4123	4624	5179
-40°	1567	1748	1957	2188	2436	2705	3024	3359	3744	4156	4618
-42.5°	1501	1660	1847	2040	2271	2513	2771	3079	3392	3739	4112
-45°	1424	1572	1737	1919	2106	2320	2557	2798	3079	3359	3667
-47.5°	1347	1484	1638	1787	1957	2139	2337	2557	2776	3024	3288
-50°	1276	1402	1528	1666	1814	1968	2139	2320	2518	2716	2925
-52.5°	1199	1314	1429	1545	1677	1809	1952	2106	2271	2441	2612
-55°	1122	1232	1331	1435	1539	1660	1781	1913	2040	2188	2326
-57.5°	1050	1144	1232	1325	1418	1512	1622	1726	1842	1957	2067
-60°	984	1061	1138	1221	1303	1386	1462	1556	1655	1743	1842
-62.5°	918	979	1045	1111	1182	1254	1325	1397	1479	1556	1633
-65°	847	902	957	1012	1072	1133	1193	1248	1309	1380	1440
-67.5°	775	825	869	918	962	1012	1061	1111	1160	1215	1270
-70°	709	742	786	825	858	891	929	973	1017	1067	1111
-72.5°	638	665	698	737	753	764	792	825	869	918	962
-75°	550	588	605	627	638	632	632	643	687	748	803
-77.5°	451	478	500	522	517	511	500	489	528	577	627
-80°	352	374	396	412	412	396	379	357	396	445	495
-82.5°	269	286	297	308	308	297	286	269	302	335	374
-85°	181	198	203	214	209	198	192	181	203	225	253
-87.5°	94	99	105	105	105	99	94	88	99	110	121
-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°	137	137	137	137	132	137	137	143	148	132	116
85°	275	280	280	280	280	280	280	280	280	253	225
82.5°	412	429	440	456	467	467	462	456	445	401	352
80°	544	572	588	605	621	616	610	599	594	539	484
77.5°	676	709	731	748	764	770	764	764	759	709	649
75°	847	874	896	918	940	951	957	957	957	913	858
72.5°	1001	1034	1067	1100	1127	1144	1160	1171	1182	1160	1127
70°	1160	1199	1237	1276	1314	1342	1364	1386	1397	1402	1402
67.5°	1325	1375	1424	1473	1517	1556	1583	1611	1633	1655	1666
65°	1506	1572	1633	1688	1737	1787	1825	1864	1897	1924	1941
62.5°	1710	1787	1858	1930	1985	2045	2106	2161	2205	2243	2271
60°	1935	2029	2117	2205	2293	2364	2441	2507	2562	2612	2656
57.5°	2188	2304	2414	2529	2628	2721	2815	2908	2991	3057	3112
55°	2469	2612	2754	2892	3029	3156	3277	3398	3508	3596	3673
52.5°	2793	2963	3145	3315	3502	3667	3821	3986	4134	4266	4376
50°	3139	3359	3596	3816	4057	4288	4497	4706	4915	5097	5245
47.5°	3546	3810	4118	4420	4717	5031	5322	5597	5883	6125	6328
45°	3986	4354	4717	5124	5498	5921	6323	6724	7076	7428	7725
42.5°	4508	4970	5432	5954	6466	6999	7565	8071	8599	9115	9544
40°	5130	5674	6312	6938	7648	8318	9121	9830	10501	11155	11710
37.5°	5811	6531	7318	8115	9077	10023	10963	11853	12651	13382	13965
35°	6597	7505	8439	9599	10743	11897	12975	13987	14894	15636	16252
32.5°	7499	8571	9863	11210	12535	13816	15103	16103	17049	17896	18621
30°	8456	9852	11359	12865	14311	15702	16999	18203	19303	20254	21068
27.5°	9577	11194	12870	14487	16037	17538	19012	20386	21590	22591	23602
25°	10688	12541	14333	16043	17720	19396	21018	22563	23971	25197	26291
22.5°	11859	13794	15685	17500	19402	21227	23003	24762	26379	27792	29023
20°	12942	15020	16950	18973	21035	23014	25010	26912	28715	30420	31822
17.5°	13910	16026	18132	20265	22514	24757	26923	28985	31041	33026	34774
15°	14773	16994	19155	21480	23905	26318	28732	31002	33317	35516	37473
12.5°	15537	17830	20128	22602	25136	27649	30293	32932	35500	37869	39991
10°	16169	18550	21013	23575	26208	28864	31712	34642	37391	39909	42218
7.5°	16648	19094	21667	24328	27104	29947	32921	35906	38815	41520	43939
5°	16988	19457	22101	24817	27709	30678	33850	37033	40002	42801	45275
2.5°	17296	19781	22475	25087	28034	31112	34290	37589	40624	43499	46253
0°	17379	19913	22635	25318	28182	31272	34510	37732	40843	43966	46556
-2.5°	17296	19781	22475	25087	28034	31112	34290	37589	40624	43499	46253
-5°	16988	19457	22101	24817	27709	30678	33850	37033	40002	42801	45275
-7.5°	16648	19094	21667	24328	27104	29947	32921	35906	38815	41520	43939
-10°	16169	18550	21013	23575	26208	28864	31712	34642	37391	39909	42218
-12.5°	15537	17830	20128	22602	25136	27649	30293	32932	35500	37869	39991
-15°	14773	16994	19155	21480	23905	26318	28732	31002	33317	35516	37473
-17.5°	13910	16026	18132	20265	22514	24757	26923	28985	31041	33026	34774
-20°	12942	15020	16950	18973	21035	23014	25010	26912	28715	30420	31822



REPORT NUMBER: P621378
 CATALOG NUMBER: EPH-VN-08-D-730-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11859	13794	15685	17500	19402	21227	23003	24762	26379	27792	29023
-25°	10688	12541	14333	16043	17720	19396	21018	22563	23971	25197	26291
-27.5°	9577	11194	12870	14487	16037	17538	19012	20386	21590	22591	23602
-30°	8456	9852	11359	12865	14311	15702	16999	18203	19303	20254	21068
-32.5°	7499	8571	9863	11210	12535	13816	15103	16103	17049	17896	18621
-35°	6597	7505	8439	9599	10743	11897	12975	13987	14894	15636	16252
-37.5°	5811	6531	7318	8115	9077	10023	10963	11853	12651	13382	13965
-40°	5130	5674	6312	6938	7648	8318	9121	9830	10501	11155	11710
-42.5°	4508	4970	5432	5954	6466	6999	7565	8071	8599	9115	9544
-45°	3986	4354	4717	5124	5498	5921	6323	6724	7076	7428	7725
-47.5°	3546	3810	4118	4420	4717	5031	5322	5597	5883	6125	6328
-50°	3139	3359	3596	3816	4057	4288	4497	4706	4915	5097	5245
-52.5°	2793	2963	3145	3315	3502	3667	3821	3986	4134	4266	4376
-55°	2469	2612	2754	2892	3029	3156	3277	3398	3508	3596	3673
-57.5°	2188	2304	2414	2529	2628	2721	2815	2908	2991	3057	3112
-60°	1935	2029	2117	2205	2293	2364	2441	2507	2562	2612	2656
-62.5°	1710	1787	1858	1930	1985	2045	2106	2161	2205	2243	2271
-65°	1506	1572	1633	1688	1737	1787	1825	1864	1897	1924	1941
-67.5°	1325	1375	1424	1473	1517	1556	1583	1611	1633	1655	1666
-70°	1160	1199	1237	1276	1314	1342	1364	1386	1397	1402	1402
-72.5°	1001	1034	1067	1100	1127	1144	1160	1171	1182	1160	1127
-75°	847	874	896	918	940	951	957	957	957	913	858
-77.5°	676	709	731	748	764	770	764	764	759	709	649
-80°	544	572	588	605	621	616	610	599	594	539	484
-82.5°	412	429	440	456	467	467	462	456	445	401	352
-85°	275	280	280	280	280	280	280	280	280	253	225
-87.5°	137	137	137	137	132	137	137	143	148	132	116
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P621378
 CATALOG NUMBER: EPH-VN-08-D-730-U-66

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	94	77	72	61	72	77	94	116	132	148	143
85°	192	159	154	143	154	159	192	225	253	280	280
82.5°	308	253	242	231	242	253	308	352	401	445	456
80°	434	368	357	346	357	368	434	484	539	594	599
77.5°	588	528	506	489	506	528	588	649	709	759	764
75°	797	737	720	704	720	737	797	858	913	957	957
72.5°	1089	1061	1017	979	1017	1061	1089	1127	1160	1182	1171
70°	1407	1418	1407	1391	1407	1418	1407	1402	1402	1397	1386
67.5°	1671	1682	1682	1688	1682	1682	1671	1666	1655	1633	1611
65°	1957	1963	1979	1985	1979	1963	1957	1941	1924	1897	1864
62.5°	2287	2304	2315	2315	2315	2304	2287	2271	2243	2205	2161
60°	2683	2705	2732	2738	2732	2705	2683	2656	2612	2562	2507
57.5°	3156	3183	3222	3233	3222	3183	3156	3112	3057	2991	2908
55°	3728	3766	3788	3777	3788	3766	3728	3673	3596	3508	3398
52.5°	4470	4536	4580	4558	4580	4536	4470	4376	4266	4134	3986
50°	5366	5448	5503	5487	5503	5448	5366	5245	5097	4915	4706
47.5°	6487	6603	6696	6702	6696	6603	6487	6328	6125	5883	5597
45°	7961	8131	8258	8236	8258	8131	7961	7725	7428	7076	6724
42.5°	9874	10111	10298	10281	10298	10111	9874	9544	9115	8599	8071
40°	12123	12414	12662	12728	12662	12414	12123	11710	11155	10501	9830
37.5°	14437	14811	15125	15092	15125	14811	14437	13965	13382	12651	11853
35°	16763	17153	17461	17489	17461	17153	16763	16252	15636	14894	13987
32.5°	19199	19633	19996	20045	19996	19633	19199	18621	17896	17049	16103
30°	21739	22261	22695	22783	22695	22261	21739	21068	20254	19303	18203
27.5°	24410	25032	25444	25603	25444	25032	24410	23602	22591	21590	20386
25°	27165	27841	28303	28561	28303	27841	27165	26291	25197	23971	22563
22.5°	30040	30843	31442	31728	31442	30843	30040	29023	27792	26379	24762
20°	33009	33883	34581	34878	34581	33883	33009	31822	30420	28715	26912
17.5°	36033	37099	37875	38254	37875	37099	36033	34774	33026	31041	28985
15°	38969	40101	40942	41349	40942	40101	38969	37473	35516	33317	31002
12.5°	41690	42889	43730	44318	43730	42889	41690	39991	37869	35500	32932
10°	44120	45429	46281	46891	46281	45429	44120	42218	39909	37391	34642
7.5°	45940	47595	48557	49156	48557	47595	45940	43939	41520	38815	35906
5°	47336	49162	50036	50602	50036	49162	47336	45275	42801	40002	37033
2.5°	48359	49799	50894	51460	50894	49799	48359	46253	43499	40624	37589
0°	48760	50454	51229	51597	51229	50454	48760	46556	43966	40843	37732
-2.5°	48359	49799	50894	51460	50894	49799	48359	46253	43499	40624	37589
-5°	47336	49162	50036	50602	50036	49162	47336	45275	42801	40002	37033
-7.5°	45940	47595	48557	49156	48557	47595	45940	43939	41520	38815	35906
-10°	44120	45429	46281	46891	46281	45429	44120	42218	39909	37391	34642
-12.5°	41690	42889	43730	44318	43730	42889	41690	39991	37869	35500	32932
-15°	38969	40101	40942	41349	40942	40101	38969	37473	35516	33317	31002
-17.5°	36033	37099	37875	38254	37875	37099	36033	34774	33026	31041	28985
-20°	33009	33883	34581	34878	34581	33883	33009	31822	30420	28715	26912



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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°	30040	30843	31442	31728	31442	30843	30040	29023	27792	26379	24762
-25°	27165	27841	28303	28561	28303	27841	27165	26291	25197	23971	22563
-27.5°	24410	25032	25444	25603	25444	25032	24410	23602	22591	21590	20386
-30°	21739	22261	22695	22783	22695	22261	21739	21068	20254	19303	18203
-32.5°	19199	19633	19996	20045	19996	19633	19199	18621	17896	17049	16103
-35°	16763	17153	17461	17489	17461	17153	16763	16252	15636	14894	13987
-37.5°	14437	14811	15125	15092	15125	14811	14437	13965	13382	12651	11853
-40°	12123	12414	12662	12728	12662	12414	12123	11710	11155	10501	9830
-42.5°	9874	10111	10298	10281	10298	10111	9874	9544	9115	8599	8071
-45°	7961	8131	8258	8236	8258	8131	7961	7725	7428	7076	6724
-47.5°	6487	6603	6696	6702	6696	6603	6487	6328	6125	5883	5597
-50°	5366	5448	5503	5487	5503	5448	5366	5245	5097	4915	4706
-52.5°	4470	4536	4580	4558	4580	4536	4470	4376	4266	4134	3986
-55°	3728	3766	3788	3777	3788	3766	3728	3673	3596	3508	3398
-57.5°	3156	3183	3222	3233	3222	3183	3156	3112	3057	2991	2908
-60°	2683	2705	2732	2738	2732	2705	2683	2656	2612	2562	2507
-62.5°	2287	2304	2315	2315	2315	2304	2287	2271	2243	2205	2161
-65°	1957	1963	1979	1985	1979	1963	1957	1941	1924	1897	1864
-67.5°	1671	1682	1682	1688	1682	1682	1671	1666	1655	1633	1611
-70°	1407	1418	1407	1391	1407	1418	1407	1402	1402	1397	1386
-72.5°	1089	1061	1017	979	1017	1061	1089	1127	1160	1182	1171
-75°	797	737	720	704	720	737	797	858	913	957	957
-77.5°	588	528	506	489	506	528	588	649	709	759	764
-80°	434	368	357	346	357	368	434	484	539	594	599
-82.5°	308	253	242	231	242	253	308	352	401	445	456
-85°	192	159	154	143	154	159	192	225	253	280	280
-87.5°	94	77	72	61	72	77	94	116	132	148	143
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P621378
 CATALOG NUMBER: EPH-VN-08-D-730-U-66

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	137	137	132	137	137	137	137	121	110	99	88
85°	280	280	280	280	280	280	275	253	225	203	181
82.5°	462	467	467	456	440	429	412	374	335	302	269
80°	610	616	621	605	588	572	544	495	445	396	357
77.5°	764	770	764	748	731	709	676	627	577	528	489
75°	957	951	940	918	896	874	847	803	748	687	643
72.5°	1160	1144	1127	1100	1067	1034	1001	962	918	869	825
70°	1364	1342	1314	1276	1237	1199	1160	1111	1067	1017	973
67.5°	1583	1556	1517	1473	1424	1375	1325	1270	1215	1160	1111
65°	1825	1787	1737	1688	1633	1572	1506	1440	1380	1309	1248
62.5°	2106	2045	1985	1930	1858	1787	1710	1633	1556	1479	1397
60°	2441	2364	2293	2205	2117	2029	1935	1842	1743	1655	1556
57.5°	2815	2721	2628	2529	2414	2304	2188	2067	1957	1842	1726
55°	3277	3156	3029	2892	2754	2612	2469	2326	2188	2040	1913
52.5°	3821	3667	3502	3315	3145	2963	2793	2612	2441	2271	2106
50°	4497	4288	4057	3816	3596	3359	3139	2925	2716	2518	2320
47.5°	5322	5031	4717	4420	4118	3810	3546	3288	3024	2776	2557
45°	6323	5921	5498	5124	4717	4354	3986	3667	3359	3079	2798
42.5°	7565	6999	6466	5954	5432	4970	4508	4112	3739	3392	3079
40°	9121	8318	7648	6938	6312	5674	5130	4618	4156	3744	3359
37.5°	10963	10023	9077	8115	7318	6531	5811	5179	4624	4123	3678
35°	12975	11897	10743	9599	8439	7505	6597	5806	5130	4525	4008
32.5°	15103	13816	12535	11210	9863	8571	7499	6515	5668	4976	4365
30°	16999	15702	14311	12865	11359	9852	8456	7312	6306	5432	4728
27.5°	19012	17538	16037	14487	12870	11194	9577	8120	6944	5960	5130
25°	21018	19396	17720	16043	14333	12541	10688	9044	7648	6482	5487
22.5°	23003	21227	19402	17500	15685	13794	11859	9940	8296	6999	5905
20°	25010	23014	21035	18973	16950	15020	12942	10886	9060	7532	6290
17.5°	26923	24757	22514	20265	18132	16026	13910	11798	9764	8016	6674
15°	28732	26318	23905	21480	19155	16994	14773	12590	10429	8527	7010
12.5°	30293	27649	25136	22602	20128	17830	15537	13277	11056	9022	7351
10°	31712	28864	26208	23575	21013	18550	16169	13849	11568	9423	7626
7.5°	32921	29947	27104	24328	21667	19094	16648	14289	11963	9731	7840
5°	33850	30678	27709	24817	22101	19457	16988	14602	12244	9951	7977
2.5°	34290	31112	28034	25087	22475	19781	17296	14883	12480	10160	8126
0°	34510	31272	28182	25318	22635	19913	17379	14921	12475	10188	8137
-2.5°	34290	31112	28034	25087	22475	19781	17296	14883	12480	10160	8126
-5°	33850	30678	27709	24817	22101	19457	16988	14602	12244	9951	7977
-7.5°	32921	29947	27104	24328	21667	19094	16648	14289	11963	9731	7840
-10°	31712	28864	26208	23575	21013	18550	16169	13849	11568	9423	7626
-12.5°	30293	27649	25136	22602	20128	17830	15537	13277	11056	9022	7351
-15°	28732	26318	23905	21480	19155	16994	14773	12590	10429	8527	7010
-17.5°	26923	24757	22514	20265	18132	16026	13910	11798	9764	8016	6674
-20°	25010	23014	21035	18973	16950	15020	12942	10886	9060	7532	6290



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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°	23003	21227	19402	17500	15685	13794	11859	9940	8296	6999	5905
-25°	21018	19396	17720	16043	14333	12541	10688	9044	7648	6482	5487
-27.5°	19012	17538	16037	14487	12870	11194	9577	8120	6944	5960	5130
-30°	16999	15702	14311	12865	11359	9852	8456	7312	6306	5432	4728
-32.5°	15103	13816	12535	11210	9863	8571	7499	6515	5668	4976	4365
-35°	12975	11897	10743	9599	8439	7505	6597	5806	5130	4525	4008
-37.5°	10963	10023	9077	8115	7318	6531	5811	5179	4624	4123	3678
-40°	9121	8318	7648	6938	6312	5674	5130	4618	4156	3744	3359
-42.5°	7565	6999	6466	5954	5432	4970	4508	4112	3739	3392	3079
-45°	6323	5921	5498	5124	4717	4354	3986	3667	3359	3079	2798
-47.5°	5322	5031	4717	4420	4118	3810	3546	3288	3024	2776	2557
-50°	4497	4288	4057	3816	3596	3359	3139	2925	2716	2518	2320
-52.5°	3821	3667	3502	3315	3145	2963	2793	2612	2441	2271	2106
-55°	3277	3156	3029	2892	2754	2612	2469	2326	2188	2040	1913
-57.5°	2815	2721	2628	2529	2414	2304	2188	2067	1957	1842	1726
-60°	2441	2364	2293	2205	2117	2029	1935	1842	1743	1655	1556
-62.5°	2106	2045	1985	1930	1858	1787	1710	1633	1556	1479	1397
-65°	1825	1787	1737	1688	1633	1572	1506	1440	1380	1309	1248
-67.5°	1583	1556	1517	1473	1424	1375	1325	1270	1215	1160	1111
-70°	1364	1342	1314	1276	1237	1199	1160	1111	1067	1017	973
-72.5°	1160	1144	1127	1100	1067	1034	1001	962	918	869	825
-75°	957	951	940	918	896	874	847	803	748	687	643
-77.5°	764	770	764	748	731	709	676	627	577	528	489
-80°	610	616	621	605	588	572	544	495	445	396	357
-82.5°	462	467	467	456	440	429	412	374	335	302	269
-85°	280	280	280	280	280	280	275	253	225	203	181
-87.5°	137	137	132	137	137	137	137	121	110	99	88
-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°	94	99	105	105	105	99	94	88	77	72	66
85°	192	198	209	214	203	198	181	170	159	143	132
82.5°	286	297	308	308	297	286	269	253	236	214	192
80°	379	396	412	412	396	374	352	330	308	280	253
77.5°	500	511	517	522	500	478	451	412	379	346	313
75°	632	632	638	627	605	588	550	506	456	412	368
72.5°	792	764	753	737	698	665	638	599	533	473	423
70°	929	891	858	825	786	742	709	660	605	533	473
67.5°	1061	1012	962	918	869	825	775	715	654	588	522
65°	1193	1133	1072	1012	957	902	847	775	704	638	566
62.5°	1325	1254	1182	1111	1045	979	918	836	753	682	605
60°	1462	1386	1303	1221	1138	1061	984	896	808	720	643
57.5°	1622	1512	1418	1325	1232	1144	1050	957	863	770	676
55°	1781	1660	1539	1435	1331	1232	1122	1017	913	814	709
52.5°	1952	1809	1677	1545	1429	1314	1199	1089	968	858	731
50°	2139	1968	1814	1666	1528	1402	1276	1149	1023	902	759
47.5°	2337	2139	1957	1787	1638	1484	1347	1215	1078	951	786
45°	2557	2320	2106	1919	1737	1572	1424	1276	1133	984	803
42.5°	2771	2513	2271	2040	1847	1660	1501	1342	1188	1012	830
40°	3024	2705	2436	2188	1957	1748	1567	1402	1243	1045	852
37.5°	3288	2919	2606	2320	2067	1842	1644	1457	1281	1078	874
35°	3552	3139	2776	2458	2183	1935	1715	1517	1320	1105	896
32.5°	3827	3359	2947	2595	2293	2029	1787	1572	1364	1138	913
30°	4129	3590	3123	2727	2397	2111	1858	1627	1407	1166	929
27.5°	4415	3805	3293	2870	2507	2199	1924	1682	1457	1193	951
25°	4701	4035	3475	3002	2612	2276	1990	1732	1501	1226	968
22.5°	5009	4261	3640	3128	2705	2353	2051	1787	1539	1259	984
20°	5289	4464	3783	3249	2804	2430	2111	1831	1572	1292	1001
17.5°	5547	4673	3958	3376	2897	2502	2161	1869	1605	1320	1012
15°	5828	4882	4112	3486	2980	2562	2210	1908	1633	1347	1017
12.5°	6070	5058	4244	3585	3051	2612	2249	1935	1660	1375	1028
10°	6268	5201	4354	3662	3106	2656	2276	1963	1677	1391	1034
7.5°	6422	5311	4437	3722	3150	2688	2304	1979	1693	1407	1034
5°	6537	5393	4492	3766	3183	2716	2326	1996	1710	1429	1039
2.5°	6641	5481	4536	3805	3211	2738	2342	2007	1710	1424	1028
0°	6658	5498	4530	3805	3211	2743	2342	2007	1704	1418	1017
-2.5°	6641	5481	4536	3805	3211	2738	2342	2007	1710	1424	1028
-5°	6537	5393	4492	3766	3183	2716	2326	1996	1710	1429	1039
-7.5°	6422	5311	4437	3722	3150	2688	2304	1979	1693	1407	1034
-10°	6268	5201	4354	3662	3106	2656	2276	1963	1677	1391	1034
-12.5°	6070	5058	4244	3585	3051	2612	2249	1935	1660	1375	1028
-15°	5828	4882	4112	3486	2980	2562	2210	1908	1633	1347	1017
-17.5°	5547	4673	3958	3376	2897	2502	2161	1869	1605	1320	1012
-20°	5289	4464	3783	3249	2804	2430	2111	1831	1572	1292	1001



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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°	5009	4261	3640	3128	2705	2353	2051	1787	1539	1259	984
-25°	4701	4035	3475	3002	2612	2276	1990	1732	1501	1226	968
-27.5°	4415	3805	3293	2870	2507	2199	1924	1682	1457	1193	951
-30°	4129	3590	3123	2727	2397	2111	1858	1627	1407	1166	929
-32.5°	3827	3359	2947	2595	2293	2029	1787	1572	1364	1138	913
-35°	3552	3139	2776	2458	2183	1935	1715	1517	1320	1105	896
-37.5°	3288	2919	2606	2320	2067	1842	1644	1457	1281	1078	874
-40°	3024	2705	2436	2188	1957	1748	1567	1402	1243	1045	852
-42.5°	2771	2513	2271	2040	1847	1660	1501	1342	1188	1012	830
-45°	2557	2320	2106	1919	1737	1572	1424	1276	1133	984	803
-47.5°	2337	2139	1957	1787	1638	1484	1347	1215	1078	951	786
-50°	2139	1968	1814	1666	1528	1402	1276	1149	1023	902	759
-52.5°	1952	1809	1677	1545	1429	1314	1199	1089	968	858	731
-55°	1781	1660	1539	1435	1331	1232	1122	1017	913	814	709
-57.5°	1622	1512	1418	1325	1232	1144	1050	957	863	770	676
-60°	1462	1386	1303	1221	1138	1061	984	896	808	720	643
-62.5°	1325	1254	1182	1111	1045	979	918	836	753	682	605
-65°	1193	1133	1072	1012	957	902	847	775	704	638	566
-67.5°	1061	1012	962	918	869	825	775	715	654	588	522
-70°	929	891	858	825	786	742	709	660	605	533	473
-72.5°	792	764	753	737	698	665	638	599	533	473	423
-75°	632	632	638	627	605	588	550	506	456	412	368
-77.5°	500	511	517	522	500	478	451	412	379	346	313
-80°	379	396	412	412	396	374	352	330	308	280	253
-82.5°	286	297	308	308	297	286	269	253	236	214	192
-85°	192	198	209	214	203	198	181	170	159	143	132
-87.5°	94	99	105	105	105	99	94	88	77	72	66
-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°	55	44	33	22	11	6	0
85°	116	88	61	39	22	11	0
82.5°	170	127	94	61	39	17	0
80°	225	170	121	83	50	22	0
77.5°	275	209	154	99	61	28	0
75°	319	242	181	121	72	33	0
72.5°	363	275	203	137	83	39	0
70°	407	308	225	159	94	44	0
67.5°	440	335	247	170	105	50	0
65°	467	363	264	181	116	50	0
62.5°	495	385	280	192	127	55	0
60°	528	407	302	203	132	61	0
57.5°	550	423	313	214	137	66	0
55°	572	445	324	225	148	72	0
52.5°	594	462	341	231	154	72	0
50°	610	478	352	236	159	77	0
47.5°	632	489	357	242	165	83	0
45°	649	506	368	247	170	83	0
42.5°	665	517	374	253	170	88	0
40°	682	522	385	264	176	94	0
37.5°	693	533	390	269	181	94	0
35°	698	539	396	275	187	99	0
32.5°	709	550	401	286	187	99	0
30°	726	550	401	291	192	99	0
27.5°	737	555	412	291	192	105	0
25°	742	555	418	297	198	105	0
22.5°	748	561	423	302	198	105	0
20°	753	566	429	308	203	110	0
17.5°	759	577	434	308	203	110	0
15°	770	583	434	308	203	116	0
12.5°	775	583	434	313	203	116	0
10°	781	588	434	313	209	110	0
7.5°	781	588	440	313	209	110	0
5°	781	594	434	313	203	110	0
2.5°	770	594	434	308	203	110	0
0°	764	588	429	308	203	110	0
-2.5°	770	594	434	308	203	110	0
-5°	781	594	434	313	203	110	0
-7.5°	781	588	440	313	209	110	0
-10°	781	588	434	313	209	110	0
-12.5°	775	583	434	313	203	116	0
-15°	770	583	434	308	203	116	0
-17.5°	759	577	434	308	203	110	0
-20°	753	566	429	308	203	110	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	748	561	423	302	198	105	0
-25°	742	555	418	297	198	105	0
-27.5°	737	555	412	291	192	105	0
-30°	726	550	401	291	192	99	0
-32.5°	709	550	401	286	187	99	0
-35°	698	539	396	275	187	99	0
-37.5°	693	533	390	269	181	94	0
-40°	682	522	385	264	176	94	0
-42.5°	665	517	374	253	170	88	0
-45°	649	506	368	247	170	83	0
-47.5°	632	489	357	242	165	83	0
-50°	610	478	352	236	159	77	0
-52.5°	594	462	341	231	154	72	0
-55°	572	445	324	225	148	72	0
-57.5°	550	423	313	214	137	66	0
-60°	528	407	302	203	132	61	0
-62.5°	495	385	280	192	127	55	0
-65°	467	363	264	181	116	50	0
-67.5°	440	335	247	170	105	50	0
-70°	407	308	225	159	94	44	0
-72.5°	363	275	203	137	83	39	0
-75°	319	242	181	121	72	33	0
-77.5°	275	209	154	99	61	28	0
-80°	225	170	121	83	50	22	0
-82.5°	170	127	94	61	39	17	0
-85°	116	88	61	39	22	11	0
-87.5°	55	44	33	22	11	6	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)