

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: P621385

Luminaire Tested: **EPH-VN-04-E-740-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P621385
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-740-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

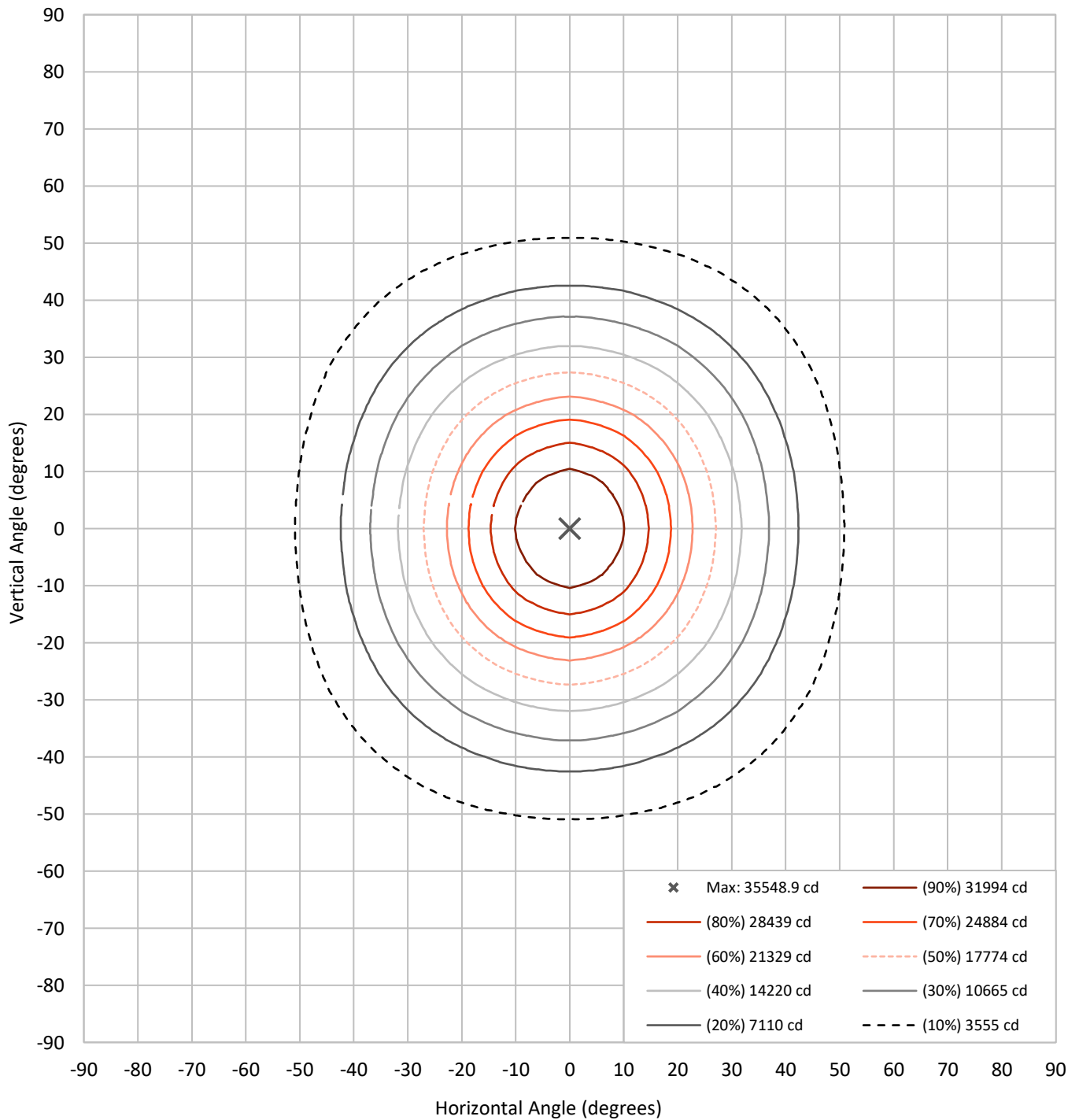
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	36870 lumens	Max Intensity:	35548.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	121.4 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	17727.2 lumens	Field Lumens:	32357.1 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





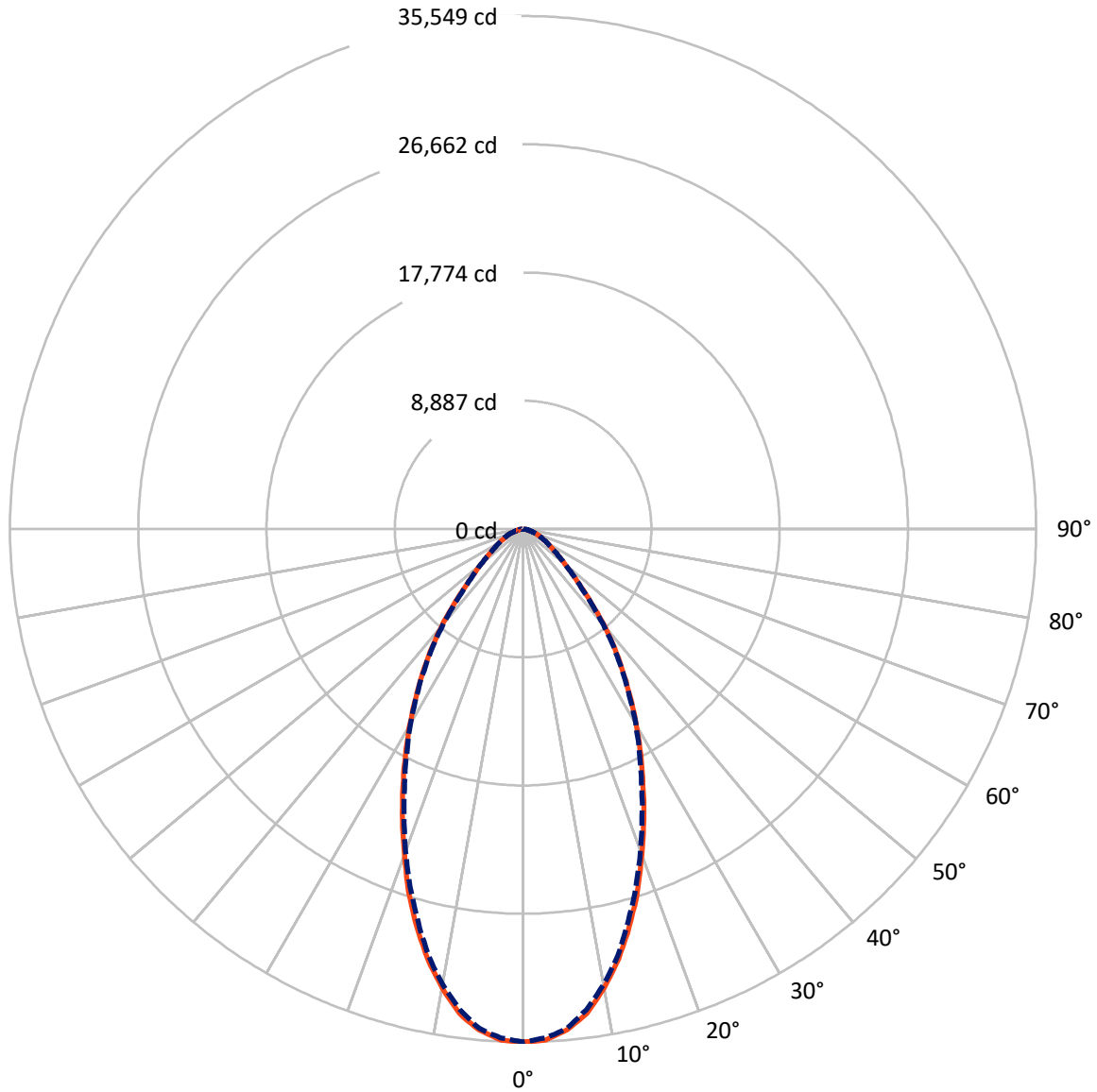
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Lumen Table

90																
80	2.6	15.8		31.8		48.5		41.6		48.5		31.8		15.8		2.6
70																
60	6.5	6.9	12.3	18.7	26.2	33.4	39.0	41.8	41.8	39.0	33.4	26.2	18.7	12.3	6.9	6.5
50		9.1	17.4	28.7	43.0	58.5	72.5	81.0	81.0	72.5	58.5	43.0	28.7	17.4	9.1	
40	8.7	11.5	23.4	42.2	70.0	107.4	147.9	175.4	175.4	147.9	107.4	70.0	42.2	23.4	11.5	8.7
30		13.7	30.2	60.8	116.6	206.2	299.8	358.0	358.0	299.8	206.2	116.6	60.8	30.2	13.7	
20	10.1	15.7	37.1	84.2	186.5	336.6	483.6	580.3	580.3	483.6	336.6	186.5	84.2	37.1	15.7	10.1
10		17.3	43.4	108.3	254.1	453.3	671.3	828.8	828.8	671.3	453.3	254.1	108.3	43.4	17.3	
0	10.5	18.2	47.1	124.3	293.3	525.8	800.6	1006.3	1006.3	800.6	525.8	293.3	124.3	47.1	18.2	10.5
-10		18.2	47.1	124.3	293.3	525.8	800.6	1006.3	1006.3	800.6	525.8	293.3	124.3	47.1	18.2	
-20	10.1	17.3	43.4	108.3	254.1	453.3	671.3	828.8	828.8	671.3	453.3	254.1	108.3	43.4	17.3	10.1
-30		15.7	37.1	84.2	186.5	336.6	483.6	580.3	580.3	483.6	336.6	186.5	84.2	37.1	15.7	
-40	8.7	13.7	30.2	60.8	116.6	206.2	299.8	358.0	358.0	299.8	206.2	116.6	60.8	30.2	13.7	8.7
-50		11.5	23.4	42.2	70.0	107.4	147.9	175.4	175.4	147.9	107.4	70.0	42.2	23.4	11.5	
-60	6.5	9.1	17.4	28.7	43.0	58.5	72.5	81.0	81.0	72.5	58.5	43.0	28.7	17.4	9.1	6.5
-70		6.9	12.3	18.7	26.2	33.4	39.0	41.8	41.8	39.0	33.4	26.2	18.7	12.3	6.9	
-80																
-90	2.6	15.8		31.8		48.5		41.6		48.5		31.8		15.8		2.6

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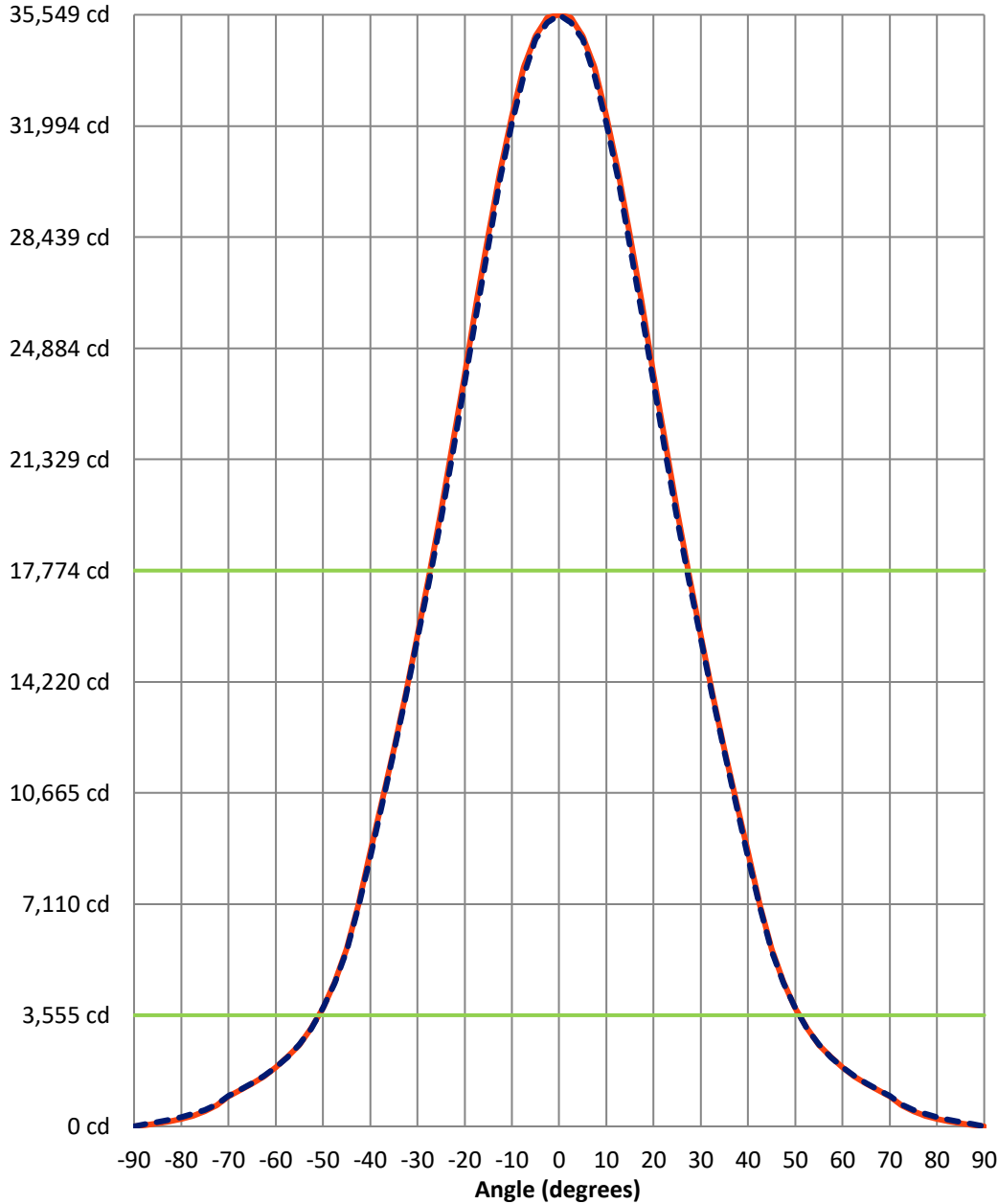
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 54.2°
V Angle: 54.7°
Lumens: 17727.2
Efficiency: 48.1%

Field:
H Angle: 101.7°
V Angle: 101.8°
Lumens: 32357.1
Efficiency: 87.8%

Spill:
Lumens: 4512.9
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	15	23	30	38	46	49	53	61
85°	0	8	15	27	42	61	80	91	99	110	117
82.5°	0	11	27	42	64	87	117	133	148	163	174
80°	0	15	34	57	83	117	155	174	193	212	227
77.5°	0	19	42	68	106	144	189	216	239	261	284
75°	0	23	49	83	125	167	220	254	284	314	349
72.5°	0	27	57	95	140	189	250	292	326	367	413
70°	0	30	64	110	155	212	280	326	367	417	455
67.5°	0	34	72	117	171	231	303	360	405	451	492
65°	0	34	80	125	182	250	322	390	439	485	534
62.5°	0	38	87	133	193	265	341	417	470	519	576
60°	0	42	91	140	208	280	364	443	496	557	617
57.5°	0	46	95	148	216	292	379	466	530	595	659
55°	0	49	102	155	224	307	394	489	561	629	701
52.5°	0	49	106	159	235	318	409	504	591	667	750
50°	0	53	110	163	242	330	420	523	621	705	792
47.5°	0	57	114	167	246	337	436	542	655	742	837
45°	0	57	117	171	254	349	447	553	678	780	879
42.5°	0	61	117	174	258	356	458	572	697	818	924
40°	0	64	121	182	265	360	470	587	720	856	966
37.5°	0	64	125	186	269	367	477	602	742	883	1004
35°	0	68	129	189	273	371	481	617	761	909	1045
32.5°	0	68	129	197	277	379	489	629	784	939	1083
30°	0	68	133	201	277	379	500	640	803	970	1121
27.5°	0	72	133	201	284	383	508	655	822	1004	1159
25°	0	72	136	205	288	383	511	667	845	1034	1193
22.5°	0	72	136	208	292	386	515	678	867	1061	1231
20°	0	76	140	212	296	390	519	689	890	1083	1261
17.5°	0	76	140	212	299	398	523	697	909	1106	1288
15°	0	80	140	212	299	402	530	701	928	1125	1314
12.5°	0	80	140	216	299	402	534	708	947	1144	1333
10°	0	76	144	216	299	405	538	712	958	1155	1352
7.5°	0	76	144	216	303	405	538	712	970	1167	1364
5°	0	76	140	216	299	409	538	716	985	1178	1375
2.5°	0	76	140	212	299	409	530	708	981	1178	1383
0°	0	76	140	212	296	405	527	701	977	1174	1383
-2.5°	0	76	140	212	299	409	530	708	981	1178	1383
-5°	0	76	140	216	299	409	538	716	985	1178	1375
-7.5°	0	76	144	216	303	405	538	712	970	1167	1364
-10°	0	76	144	216	299	405	538	712	958	1155	1352
-12.5°	0	80	140	216	299	402	534	708	947	1144	1333
-15°	0	80	140	212	299	402	530	701	928	1125	1314
-17.5°	0	76	140	212	299	398	523	697	909	1106	1288
-20°	0	76	140	212	296	390	519	689	890	1083	1261



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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	72	136	208	292	386	515	678	867	1061	1231
-25°	0	72	136	205	288	383	511	667	845	1034	1193
-27.5°	0	72	133	201	284	383	508	655	822	1004	1159
-30°	0	68	133	201	277	379	500	640	803	970	1121
-32.5°	0	68	129	197	277	379	489	629	784	939	1083
-35°	0	68	129	189	273	371	481	617	761	909	1045
-37.5°	0	64	125	186	269	367	477	602	742	883	1004
-40°	0	64	121	182	265	360	470	587	720	856	966
-42.5°	0	61	117	174	258	356	458	572	697	818	924
-45°	0	57	117	171	254	349	447	553	678	780	879
-47.5°	0	57	114	167	246	337	436	542	655	742	837
-50°	0	53	110	163	242	330	420	523	621	705	792
-52.5°	0	49	106	159	235	318	409	504	591	667	750
-55°	0	49	102	155	224	307	394	489	561	629	701
-57.5°	0	46	95	148	216	292	379	466	530	595	659
-60°	0	42	91	140	208	280	364	443	496	557	617
-62.5°	0	38	87	133	193	265	341	417	470	519	576
-65°	0	34	80	125	182	250	322	390	439	485	534
-67.5°	0	34	72	117	171	231	303	360	405	451	492
-70°	0	30	64	110	155	212	280	326	367	417	455
-72.5°	0	27	57	95	140	189	250	292	326	367	413
-75°	0	23	49	83	125	167	220	254	284	314	349
-77.5°	0	19	42	68	106	144	189	216	239	261	284
-80°	0	15	34	57	83	117	155	174	193	212	227
-82.5°	0	11	27	42	64	87	117	133	148	163	174
-85°	0	8	15	27	42	61	80	91	99	110	117
-87.5°	0	4	8	15	23	30	38	46	49	53	61
-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°	64	68	72	72	72	68	64	61	68	76	83
85°	125	136	140	148	144	136	133	125	140	155	174
82.5°	186	197	205	212	212	205	197	186	208	231	258
80°	242	258	273	284	284	273	261	246	273	307	341
77.5°	311	330	345	360	356	352	345	337	364	398	432
75°	379	405	417	432	439	436	436	443	474	515	553
72.5°	439	458	481	508	519	527	545	568	599	633	663
70°	489	511	542	568	591	614	640	670	701	735	765
67.5°	534	568	599	633	663	697	731	765	799	837	875
65°	583	621	659	697	739	780	822	860	902	951	992
62.5°	633	674	720	765	814	864	913	962	1019	1072	1125
60°	678	731	784	841	898	955	1008	1072	1140	1201	1269
57.5°	724	788	849	913	977	1042	1117	1189	1269	1349	1424
55°	773	849	917	989	1061	1144	1227	1318	1405	1508	1602
52.5°	826	905	985	1064	1155	1246	1345	1451	1564	1682	1799
50°	879	966	1053	1148	1250	1356	1474	1599	1735	1871	2015
47.5°	928	1023	1129	1231	1349	1474	1610	1761	1913	2083	2265
45°	981	1083	1197	1322	1451	1599	1761	1928	2121	2314	2527
42.5°	1034	1144	1273	1405	1564	1731	1909	2121	2337	2576	2833
40°	1080	1205	1349	1508	1678	1864	2083	2314	2580	2864	3182
37.5°	1133	1269	1424	1599	1795	2011	2265	2534	2841	3186	3568
35°	1182	1333	1504	1693	1913	2163	2447	2761	3117	3534	4000
32.5°	1231	1398	1580	1788	2030	2314	2636	3008	3428	3905	4489
30°	1280	1455	1652	1879	2152	2474	2845	3258	3742	4345	5038
27.5°	1326	1515	1727	1977	2269	2621	3042	3534	4106	4784	5595
25°	1371	1568	1799	2068	2394	2780	3239	3780	4466	5269	6231
22.5°	1413	1621	1864	2155	2508	2936	3451	4068	4822	5716	6848
20°	1455	1674	1932	2239	2606	3076	3644	4333	5189	6242	7500
17.5°	1489	1724	1996	2326	2727	3220	3822	4598	5523	6727	8129
15°	1523	1765	2053	2402	2833	3364	4015	4830	5875	7186	8674
12.5°	1549	1799	2102	2470	2924	3485	4182	5064	6216	7617	9148
10°	1568	1830	2140	2523	3000	3583	4318	5254	6492	7970	9542
7.5°	1587	1852	2170	2564	3057	3659	4424	5402	6705	8242	9845
5°	1602	1871	2193	2595	3095	3716	4504	5496	6856	8436	10061
2.5°	1614	1886	2212	2621	3125	3777	4576	5598	7000	8598	10254
0°	1614	1890	2212	2621	3121	3788	4587	5606	7019	8595	10280
-2.5°	1614	1886	2212	2621	3125	3777	4576	5598	7000	8598	10254
-5°	1602	1871	2193	2595	3095	3716	4504	5496	6856	8436	10061
-7.5°	1587	1852	2170	2564	3057	3659	4424	5402	6705	8242	9845
-10°	1568	1830	2140	2523	3000	3583	4318	5254	6492	7970	9542
-12.5°	1549	1799	2102	2470	2924	3485	4182	5064	6216	7617	9148
-15°	1523	1765	2053	2402	2833	3364	4015	4830	5875	7186	8674
-17.5°	1489	1724	1996	2326	2727	3220	3822	4598	5523	6727	8129
-20°	1455	1674	1932	2239	2606	3076	3644	4333	5189	6242	7500



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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°	1413	1621	1864	2155	2508	2936	3451	4068	4822	5716	6848
-25°	1371	1568	1799	2068	2394	2780	3239	3780	4466	5269	6231
-27.5°	1326	1515	1727	1977	2269	2621	3042	3534	4106	4784	5595
-30°	1280	1455	1652	1879	2152	2474	2845	3258	3742	4345	5038
-32.5°	1231	1398	1580	1788	2030	2314	2636	3008	3428	3905	4489
-35°	1182	1333	1504	1693	1913	2163	2447	2761	3117	3534	4000
-37.5°	1133	1269	1424	1599	1795	2011	2265	2534	2841	3186	3568
-40°	1080	1205	1349	1508	1678	1864	2083	2314	2580	2864	3182
-42.5°	1034	1144	1273	1405	1564	1731	1909	2121	2337	2576	2833
-45°	981	1083	1197	1322	1451	1599	1761	1928	2121	2314	2527
-47.5°	928	1023	1129	1231	1349	1474	1610	1761	1913	2083	2265
-50°	879	966	1053	1148	1250	1356	1474	1599	1735	1871	2015
-52.5°	826	905	985	1064	1155	1246	1345	1451	1564	1682	1799
-55°	773	849	917	989	1061	1144	1227	1318	1405	1508	1602
-57.5°	724	788	849	913	977	1042	1117	1189	1269	1349	1424
-60°	678	731	784	841	898	955	1008	1072	1140	1201	1269
-62.5°	633	674	720	765	814	864	913	962	1019	1072	1125
-65°	583	621	659	697	739	780	822	860	902	951	992
-67.5°	534	568	599	633	663	697	731	765	799	837	875
-70°	489	511	542	568	591	614	640	670	701	735	765
-72.5°	439	458	481	508	519	527	545	568	599	633	663
-75°	379	405	417	432	439	436	436	443	474	515	553
-77.5°	311	330	345	360	356	352	345	337	364	398	432
-80°	242	258	273	284	284	273	261	246	273	307	341
-82.5°	186	197	205	212	212	205	197	186	208	231	258
-85°	125	136	140	148	144	136	133	125	140	155	174
-87.5°	64	68	72	72	72	68	64	61	68	76	83
-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°	95	95	95	95	91	95	95	99	102	91	80
85°	189	193	193	193	193	193	193	193	193	174	155
82.5°	284	296	303	314	322	322	318	314	307	277	242
80°	375	394	405	417	428	424	420	413	409	371	333
77.5°	466	489	504	515	527	530	527	527	523	489	447
75°	583	602	617	633	648	655	659	659	659	629	591
72.5°	689	712	735	758	777	788	799	807	814	799	777
70°	799	826	852	879	905	924	939	955	962	966	966
67.5°	913	947	981	1015	1045	1072	1091	1110	1125	1140	1148
65°	1038	1083	1125	1163	1197	1231	1258	1284	1307	1326	1337
62.5°	1178	1231	1280	1330	1367	1409	1451	1489	1519	1545	1564
60°	1333	1398	1458	1519	1580	1629	1682	1727	1765	1799	1830
57.5°	1508	1587	1663	1742	1811	1875	1939	2004	2061	2106	2144
55°	1701	1799	1898	1992	2087	2174	2258	2341	2417	2477	2530
52.5°	1924	2042	2167	2284	2413	2527	2633	2746	2849	2939	3015
50°	2163	2314	2477	2629	2795	2955	3099	3242	3386	3511	3614
47.5°	2443	2625	2837	3045	3250	3466	3667	3856	4053	4220	4360
45°	2746	3000	3250	3530	3788	4080	4356	4633	4875	5117	5322
42.5°	3106	3424	3742	4102	4455	4822	5212	5561	5924	6280	6576
40°	3534	3909	4348	4780	5269	5731	6284	6773	7235	7686	8068
37.5°	4004	4500	5042	5591	6254	6905	7553	8167	8716	9220	9621
35°	4545	5170	5814	6614	7401	8197	8939	9636	10261	10773	11197
32.5°	5167	5905	6795	7723	8636	9519	10405	11095	11746	12329	12829
30°	5826	6788	7826	8864	9860	10818	11712	12542	13299	13954	14515
27.5°	6598	7712	8867	9981	11049	12083	13098	14045	14875	15564	16261
25°	7364	8640	9875	11053	12208	13364	14481	15545	16515	17360	18113
22.5°	8170	9504	10807	12057	13367	14625	15848	17060	18174	19148	19996
20°	8917	10348	11678	13072	14492	15856	17231	18542	19784	20958	21924
17.5°	9583	11042	12492	13962	15511	17057	18549	19970	21386	22754	23958
15°	10178	11708	13197	14799	16470	18132	19795	21360	22954	24469	25818
12.5°	10704	12284	13867	15572	17318	19049	20871	22689	24458	26091	27553
10°	11140	12780	14477	16242	18057	19886	21848	23867	25761	27496	29087
7.5°	11470	13155	14928	16761	18674	20632	22682	24738	26742	28606	30272
5°	11704	13405	15227	17098	19091	21136	23322	25515	27560	29488	31193
2.5°	11917	13629	15485	17284	19314	21435	23625	25897	27988	29969	31867
0°	11973	13720	15595	17443	19417	21545	23776	25996	28140	30291	32075
-2.5°	11917	13629	15485	17284	19314	21435	23625	25897	27988	29969	31867
-5°	11704	13405	15227	17098	19091	21136	23322	25515	27560	29488	31193
-7.5°	11470	13155	14928	16761	18674	20632	22682	24738	26742	28606	30272
-10°	11140	12780	14477	16242	18057	19886	21848	23867	25761	27496	29087
-12.5°	10704	12284	13867	15572	17318	19049	20871	22689	24458	26091	27553
-15°	10178	11708	13197	14799	16470	18132	19795	21360	22954	24469	25818
-17.5°	9583	11042	12492	13962	15511	17057	18549	19970	21386	22754	23958
-20°	8917	10348	11678	13072	14492	15856	17231	18542	19784	20958	21924



REPORT NUMBER: P621385
 CATALOG NUMBER: EPH-VN-04-E-740-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8170	9504	10807	12057	13367	14625	15848	17060	18174	19148	19996
-25°	7364	8640	9875	11053	12208	13364	14481	15545	16515	17360	18113
-27.5°	6598	7712	8867	9981	11049	12083	13098	14045	14875	15564	16261
-30°	5826	6788	7826	8864	9860	10818	11712	12542	13299	13954	14515
-32.5°	5167	5905	6795	7723	8636	9519	10405	11095	11746	12329	12829
-35°	4545	5170	5814	6614	7401	8197	8939	9636	10261	10773	11197
-37.5°	4004	4500	5042	5591	6254	6905	7553	8167	8716	9220	9621
-40°	3534	3909	4348	4780	5269	5731	6284	6773	7235	7686	8068
-42.5°	3106	3424	3742	4102	4455	4822	5212	5561	5924	6280	6576
-45°	2746	3000	3250	3530	3788	4080	4356	4633	4875	5117	5322
-47.5°	2443	2625	2837	3045	3250	3466	3667	3856	4053	4220	4360
-50°	2163	2314	2477	2629	2795	2955	3099	3242	3386	3511	3614
-52.5°	1924	2042	2167	2284	2413	2527	2633	2746	2849	2939	3015
-55°	1701	1799	1898	1992	2087	2174	2258	2341	2417	2477	2530
-57.5°	1508	1587	1663	1742	1811	1875	1939	2004	2061	2106	2144
-60°	1333	1398	1458	1519	1580	1629	1682	1727	1765	1799	1830
-62.5°	1178	1231	1280	1330	1367	1409	1451	1489	1519	1545	1564
-65°	1038	1083	1125	1163	1197	1231	1258	1284	1307	1326	1337
-67.5°	913	947	981	1015	1045	1072	1091	1110	1125	1140	1148
-70°	799	826	852	879	905	924	939	955	962	966	966
-72.5°	689	712	735	758	777	788	799	807	814	799	777
-75°	583	602	617	633	648	655	659	659	659	629	591
-77.5°	466	489	504	515	527	530	527	527	523	489	447
-80°	375	394	405	417	428	424	420	413	409	371	333
-82.5°	284	296	303	314	322	322	318	314	307	277	242
-85°	189	193	193	193	193	193	193	193	193	174	155
-87.5°	95	95	95	95	91	95	95	99	102	91	80
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P621385
 CATALOG NUMBER: EPH-VN-04-E-740-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°	64	53	49	42	49	53	64	80	91	102	99
85°	133	110	106	99	106	110	133	155	174	193	193
82.5°	212	174	167	159	167	174	212	242	277	307	314
80°	299	254	246	239	246	254	299	333	371	409	413
77.5°	405	364	349	337	349	364	405	447	489	523	527
75°	549	508	496	485	496	508	549	591	629	659	659
72.5°	750	731	701	674	701	731	750	777	799	814	807
70°	970	977	970	958	970	977	970	966	966	962	955
67.5°	1152	1159	1159	1163	1159	1159	1152	1148	1140	1125	1110
65°	1349	1352	1364	1367	1364	1352	1349	1337	1326	1307	1284
62.5°	1576	1587	1595	1595	1595	1587	1576	1564	1545	1519	1489
60°	1849	1864	1883	1886	1883	1864	1849	1830	1799	1765	1727
57.5°	2174	2193	2220	2227	2220	2193	2174	2144	2106	2061	2004
55°	2568	2595	2610	2602	2610	2595	2568	2530	2477	2417	2341
52.5°	3080	3125	3155	3140	3155	3125	3080	3015	2939	2849	2746
50°	3697	3754	3792	3780	3792	3754	3697	3614	3511	3386	3242
47.5°	4470	4549	4614	4617	4614	4549	4470	4360	4220	4053	3856
45°	5485	5602	5689	5674	5689	5602	5485	5322	5117	4875	4633
42.5°	6803	6966	7095	7083	7095	6966	6803	6576	6280	5924	5561
40°	8352	8553	8723	8769	8723	8553	8352	8068	7686	7235	6773
37.5°	9947	10204	10420	10398	10420	10204	9947	9621	9220	8716	8167
35°	11549	11818	12030	12049	12030	11818	11549	11197	10773	10261	9636
32.5°	13227	13526	13776	13811	13776	13526	13227	12829	12329	11746	11095
30°	14977	15337	15636	15697	15636	15337	14977	14515	13954	13299	12542
27.5°	16818	17246	17530	17640	17530	17246	16818	16261	15564	14875	14045
25°	18716	19182	19500	19678	19500	19182	18716	18113	17360	16515	15545
22.5°	20697	21250	21663	21860	21663	21250	20697	19996	19148	18174	17060
20°	22742	23344	23826	24030	23826	23344	22742	21924	20958	19784	18542
17.5°	24826	25560	26094	26356	26094	25560	24826	23958	22754	21386	19970
15°	26848	27629	28208	28488	28208	27629	26848	25818	24469	22954	21360
12.5°	28723	29549	30129	30534	30129	29549	28723	27553	26091	24458	22689
10°	30397	31299	31886	32307	31886	31299	30397	29087	27496	25761	23867
7.5°	31651	32791	33454	33867	33454	32791	31651	30272	28606	26742	24738
5°	32613	33871	34473	34863	34473	33871	32613	31193	29488	27560	25515
2.5°	33318	34310	35064	35454	35064	34310	33318	31867	29969	27988	25897
0°	33594	34761	35295	35549	35295	34761	33594	32075	30291	28140	25996
-2.5°	33318	34310	35064	35454	35064	34310	33318	31867	29969	27988	25897
-5°	32613	33871	34473	34863	34473	33871	32613	31193	29488	27560	25515
-7.5°	31651	32791	33454	33867	33454	32791	31651	30272	28606	26742	24738
-10°	30397	31299	31886	32307	31886	31299	30397	29087	27496	25761	23867
-12.5°	28723	29549	30129	30534	30129	29549	28723	27553	26091	24458	22689
-15°	26848	27629	28208	28488	28208	27629	26848	25818	24469	22954	21360
-17.5°	24826	25560	26094	26356	26094	25560	24826	23958	22754	21386	19970
-20°	22742	23344	23826	24030	23826	23344	22742	21924	20958	19784	18542



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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°	20697	21250	21663	21860	21663	21250	20697	19996	19148	18174	17060
-25°	18716	19182	19500	19678	19500	19182	18716	18113	17360	16515	15545
-27.5°	16818	17246	17530	17640	17530	17246	16818	16261	15564	14875	14045
-30°	14977	15337	15636	15697	15636	15337	14977	14515	13954	13299	12542
-32.5°	13227	13526	13776	13811	13776	13526	13227	12829	12329	11746	11095
-35°	11549	11818	12030	12049	12030	11818	11549	11197	10773	10261	9636
-37.5°	9947	10204	10420	10398	10420	10204	9947	9621	9220	8716	8167
-40°	8352	8553	8723	8769	8723	8553	8352	8068	7686	7235	6773
-42.5°	6803	6966	7095	7083	7095	6966	6803	6576	6280	5924	5561
-45°	5485	5602	5689	5674	5689	5602	5485	5322	5117	4875	4633
-47.5°	4470	4549	4614	4617	4614	4549	4470	4360	4220	4053	3856
-50°	3697	3754	3792	3780	3792	3754	3697	3614	3511	3386	3242
-52.5°	3080	3125	3155	3140	3155	3125	3080	3015	2939	2849	2746
-55°	2568	2595	2610	2602	2610	2595	2568	2530	2477	2417	2341
-57.5°	2174	2193	2220	2227	2220	2193	2174	2144	2106	2061	2004
-60°	1849	1864	1883	1886	1883	1864	1849	1830	1799	1765	1727
-62.5°	1576	1587	1595	1595	1595	1587	1576	1564	1545	1519	1489
-65°	1349	1352	1364	1367	1364	1352	1349	1337	1326	1307	1284
-67.5°	1152	1159	1159	1163	1159	1159	1152	1148	1140	1125	1110
-70°	970	977	970	958	970	977	970	966	966	962	955
-72.5°	750	731	701	674	701	731	750	777	799	814	807
-75°	549	508	496	485	496	508	549	591	629	659	659
-77.5°	405	364	349	337	349	364	405	447	489	523	527
-80°	299	254	246	239	246	254	299	333	371	409	413
-82.5°	212	174	167	159	167	174	212	242	277	307	314
-85°	133	110	106	99	106	110	133	155	174	193	193
-87.5°	64	53	49	42	49	53	64	80	91	102	99
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: EPH-VN-04-E-740-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°	95	95	91	95	95	95	95	83	76	68	61
85°	193	193	193	193	193	193	189	174	155	140	125
82.5°	318	322	322	314	303	296	284	258	231	208	186
80°	420	424	428	417	405	394	375	341	307	273	246
77.5°	527	530	527	515	504	489	466	432	398	364	337
75°	659	655	648	633	617	602	583	553	515	474	443
72.5°	799	788	777	758	735	712	689	663	633	599	568
70°	939	924	905	879	852	826	799	765	735	701	670
67.5°	1091	1072	1045	1015	981	947	913	875	837	799	765
65°	1258	1231	1197	1163	1125	1083	1038	992	951	902	860
62.5°	1451	1409	1367	1330	1280	1231	1178	1125	1072	1019	962
60°	1682	1629	1580	1519	1458	1398	1333	1269	1201	1140	1072
57.5°	1939	1875	1811	1742	1663	1587	1508	1424	1349	1269	1189
55°	2258	2174	2087	1992	1898	1799	1701	1602	1508	1405	1318
52.5°	2633	2527	2413	2284	2167	2042	1924	1799	1682	1564	1451
50°	3099	2955	2795	2629	2477	2314	2163	2015	1871	1735	1599
47.5°	3667	3466	3250	3045	2837	2625	2443	2265	2083	1913	1761
45°	4356	4080	3788	3530	3250	3000	2746	2527	2314	2121	1928
42.5°	5212	4822	4455	4102	3742	3424	3106	2833	2576	2337	2121
40°	6284	5731	5269	4780	4348	3909	3534	3182	2864	2580	2314
37.5°	7553	6905	6254	5591	5042	4500	4004	3568	3186	2841	2534
35°	8939	8197	7401	6614	5814	5170	4545	4000	3534	3117	2761
32.5°	10405	9519	8636	7723	6795	5905	5167	4489	3905	3428	3008
30°	11712	10818	9860	8864	7826	6788	5826	5038	4345	3742	3258
27.5°	13098	12083	11049	9981	8867	7712	6598	5595	4784	4106	3534
25°	14481	13364	12208	11053	9875	8640	7364	6231	5269	4466	3780
22.5°	15848	14625	13367	12057	10807	9504	8170	6848	5716	4822	4068
20°	17231	15856	14492	13072	11678	10348	8917	7500	6242	5189	4333
17.5°	18549	17057	15511	13962	12492	11042	9583	8129	6727	5523	4598
15°	19795	18132	16470	14799	13197	11708	10178	8674	7186	5875	4830
12.5°	20871	19049	17318	15572	13867	12284	10704	9148	7617	6216	5064
10°	21848	19886	18057	16242	14477	12780	11140	9542	7970	6492	5254
7.5°	22682	20632	18674	16761	14928	13155	11470	9845	8242	6705	5402
5°	23322	21136	19091	17098	15227	13405	11704	10061	8436	6856	5496
2.5°	23625	21435	19314	17284	15485	13629	11917	10254	8598	7000	5598
0°	23776	21545	19417	17443	15595	13720	11973	10280	8595	7019	5606
-2.5°	23625	21435	19314	17284	15485	13629	11917	10254	8598	7000	5598
-5°	23322	21136	19091	17098	15227	13405	11704	10061	8436	6856	5496
-7.5°	22682	20632	18674	16761	14928	13155	11470	9845	8242	6705	5402
-10°	21848	19886	18057	16242	14477	12780	11140	9542	7970	6492	5254
-12.5°	20871	19049	17318	15572	13867	12284	10704	9148	7617	6216	5064
-15°	19795	18132	16470	14799	13197	11708	10178	8674	7186	5875	4830
-17.5°	18549	17057	15511	13962	12492	11042	9583	8129	6727	5523	4598
-20°	17231	15856	14492	13072	11678	10348	8917	7500	6242	5189	4333



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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°	15848	14625	13367	12057	10807	9504	8170	6848	5716	4822	4068
-25°	14481	13364	12208	11053	9875	8640	7364	6231	5269	4466	3780
-27.5°	13098	12083	11049	9981	8867	7712	6598	5595	4784	4106	3534
-30°	11712	10818	9860	8864	7826	6788	5826	5038	4345	3742	3258
-32.5°	10405	9519	8636	7723	6795	5905	5167	4489	3905	3428	3008
-35°	8939	8197	7401	6614	5814	5170	4545	4000	3534	3117	2761
-37.5°	7553	6905	6254	5591	5042	4500	4004	3568	3186	2841	2534
-40°	6284	5731	5269	4780	4348	3909	3534	3182	2864	2580	2314
-42.5°	5212	4822	4455	4102	3742	3424	3106	2833	2576	2337	2121
-45°	4356	4080	3788	3530	3250	3000	2746	2527	2314	2121	1928
-47.5°	3667	3466	3250	3045	2837	2625	2443	2265	2083	1913	1761
-50°	3099	2955	2795	2629	2477	2314	2163	2015	1871	1735	1599
-52.5°	2633	2527	2413	2284	2167	2042	1924	1799	1682	1564	1451
-55°	2258	2174	2087	1992	1898	1799	1701	1602	1508	1405	1318
-57.5°	1939	1875	1811	1742	1663	1587	1508	1424	1349	1269	1189
-60°	1682	1629	1580	1519	1458	1398	1333	1269	1201	1140	1072
-62.5°	1451	1409	1367	1330	1280	1231	1178	1125	1072	1019	962
-65°	1258	1231	1197	1163	1125	1083	1038	992	951	902	860
-67.5°	1091	1072	1045	1015	981	947	913	875	837	799	765
-70°	939	924	905	879	852	826	799	765	735	701	670
-72.5°	799	788	777	758	735	712	689	663	633	599	568
-75°	659	655	648	633	617	602	583	553	515	474	443
-77.5°	527	530	527	515	504	489	466	432	398	364	337
-80°	420	424	428	417	405	394	375	341	307	273	246
-82.5°	318	322	322	314	303	296	284	258	231	208	186
-85°	193	193	193	193	193	193	189	174	155	140	125
-87.5°	95	95	91	95	95	95	95	83	76	68	61
-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°	64	68	72	72	72	68	64	61	53	49	46
85°	133	136	144	148	140	136	125	117	110	99	91
82.5°	197	205	212	212	205	197	186	174	163	148	133
80°	261	273	284	284	273	258	242	227	212	193	174
77.5°	345	352	356	360	345	330	311	284	261	239	216
75°	436	436	439	432	417	405	379	349	314	284	254
72.5°	545	527	519	508	481	458	439	413	367	326	292
70°	640	614	591	568	542	511	489	455	417	367	326
67.5°	731	697	663	633	599	568	534	492	451	405	360
65°	822	780	739	697	659	621	583	534	485	439	390
62.5°	913	864	814	765	720	674	633	576	519	470	417
60°	1008	955	898	841	784	731	678	617	557	496	443
57.5°	1117	1042	977	913	849	788	724	659	595	530	466
55°	1227	1144	1061	989	917	849	773	701	629	561	489
52.5°	1345	1246	1155	1064	985	905	826	750	667	591	504
50°	1474	1356	1250	1148	1053	966	879	792	705	621	523
47.5°	1610	1474	1349	1231	1129	1023	928	837	742	655	542
45°	1761	1599	1451	1322	1197	1083	981	879	780	678	553
42.5°	1909	1731	1564	1405	1273	1144	1034	924	818	697	572
40°	2083	1864	1678	1508	1349	1205	1080	966	856	720	587
37.5°	2265	2011	1795	1599	1424	1269	1133	1004	883	742	602
35°	2447	2163	1913	1693	1504	1333	1182	1045	909	761	617
32.5°	2636	2314	2030	1788	1580	1398	1231	1083	939	784	629
30°	2845	2474	2152	1879	1652	1455	1280	1121	970	803	640
27.5°	3042	2621	2269	1977	1727	1515	1326	1159	1004	822	655
25°	3239	2780	2394	2068	1799	1568	1371	1193	1034	845	667
22.5°	3451	2936	2508	2155	1864	1621	1413	1231	1061	867	678
20°	3644	3076	2606	2239	1932	1674	1455	1261	1083	890	689
17.5°	3822	3220	2727	2326	1996	1724	1489	1288	1106	909	697
15°	4015	3364	2833	2402	2053	1765	1523	1314	1125	928	701
12.5°	4182	3485	2924	2470	2102	1799	1549	1333	1144	947	708
10°	4318	3583	3000	2523	2140	1830	1568	1352	1155	958	712
7.5°	4424	3659	3057	2564	2170	1852	1587	1364	1167	970	712
5°	4504	3716	3095	2595	2193	1871	1602	1375	1178	985	716
2.5°	4576	3777	3125	2621	2212	1886	1614	1383	1178	981	708
0°	4587	3788	3121	2621	2212	1890	1614	1383	1174	977	701
-2.5°	4576	3777	3125	2621	2212	1886	1614	1383	1178	981	708
-5°	4504	3716	3095	2595	2193	1871	1602	1375	1178	985	716
-7.5°	4424	3659	3057	2564	2170	1852	1587	1364	1167	970	712
-10°	4318	3583	3000	2523	2140	1830	1568	1352	1155	958	712
-12.5°	4182	3485	2924	2470	2102	1799	1549	1333	1144	947	708
-15°	4015	3364	2833	2402	2053	1765	1523	1314	1125	928	701
-17.5°	3822	3220	2727	2326	1996	1724	1489	1288	1106	909	697
-20°	3644	3076	2606	2239	1932	1674	1455	1261	1083	890	689



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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°	3451	2936	2508	2155	1864	1621	1413	1231	1061	867	678
-25°	3239	2780	2394	2068	1799	1568	1371	1193	1034	845	667
-27.5°	3042	2621	2269	1977	1727	1515	1326	1159	1004	822	655
-30°	2845	2474	2152	1879	1652	1455	1280	1121	970	803	640
-32.5°	2636	2314	2030	1788	1580	1398	1231	1083	939	784	629
-35°	2447	2163	1913	1693	1504	1333	1182	1045	909	761	617
-37.5°	2265	2011	1795	1599	1424	1269	1133	1004	883	742	602
-40°	2083	1864	1678	1508	1349	1205	1080	966	856	720	587
-42.5°	1909	1731	1564	1405	1273	1144	1034	924	818	697	572
-45°	1761	1599	1451	1322	1197	1083	981	879	780	678	553
-47.5°	1610	1474	1349	1231	1129	1023	928	837	742	655	542
-50°	1474	1356	1250	1148	1053	966	879	792	705	621	523
-52.5°	1345	1246	1155	1064	985	905	826	750	667	591	504
-55°	1227	1144	1061	989	917	849	773	701	629	561	489
-57.5°	1117	1042	977	913	849	788	724	659	595	530	466
-60°	1008	955	898	841	784	731	678	617	557	496	443
-62.5°	913	864	814	765	720	674	633	576	519	470	417
-65°	822	780	739	697	659	621	583	534	485	439	390
-67.5°	731	697	663	633	599	568	534	492	451	405	360
-70°	640	614	591	568	542	511	489	455	417	367	326
-72.5°	545	527	519	508	481	458	439	413	367	326	292
-75°	436	436	439	432	417	405	379	349	314	284	254
-77.5°	345	352	356	360	345	330	311	284	261	239	216
-80°	261	273	284	284	273	258	242	227	212	193	174
-82.5°	197	205	212	212	205	197	186	174	163	148	133
-85°	133	136	144	148	140	136	125	117	110	99	91
-87.5°	64	68	72	72	72	68	64	61	53	49	46
-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°	38	30	23	15	8	4	0
85°	80	61	42	27	15	8	0
82.5°	117	87	64	42	27	11	0
80°	155	117	83	57	34	15	0
77.5°	189	144	106	68	42	19	0
75°	220	167	125	83	49	23	0
72.5°	250	189	140	95	57	27	0
70°	280	212	155	110	64	30	0
67.5°	303	231	171	117	72	34	0
65°	322	250	182	125	80	34	0
62.5°	341	265	193	133	87	38	0
60°	364	280	208	140	91	42	0
57.5°	379	292	216	148	95	46	0
55°	394	307	224	155	102	49	0
52.5°	409	318	235	159	106	49	0
50°	420	330	242	163	110	53	0
47.5°	436	337	246	167	114	57	0
45°	447	349	254	171	117	57	0
42.5°	458	356	258	174	117	61	0
40°	470	360	265	182	121	64	0
37.5°	477	367	269	186	125	64	0
35°	481	371	273	189	129	68	0
32.5°	489	379	277	197	129	68	0
30°	500	379	277	201	133	68	0
27.5°	508	383	284	201	133	72	0
25°	511	383	288	205	136	72	0
22.5°	515	386	292	208	136	72	0
20°	519	390	296	212	140	76	0
17.5°	523	398	299	212	140	76	0
15°	530	402	299	212	140	80	0
12.5°	534	402	299	216	140	80	0
10°	538	405	299	216	144	76	0
7.5°	538	405	303	216	144	76	0
5°	538	409	299	216	140	76	0
2.5°	530	409	299	212	140	76	0
0°	527	405	296	212	140	76	0
-2.5°	530	409	299	212	140	76	0
-5°	538	409	299	216	140	76	0
-7.5°	538	405	303	216	144	76	0
-10°	538	405	299	216	144	76	0
-12.5°	534	402	299	216	140	80	0
-15°	530	402	299	212	140	80	0
-17.5°	523	398	299	212	140	76	0
-20°	519	390	296	212	140	76	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	515	386	292	208	136	72	0
-25°	511	383	288	205	136	72	0
-27.5°	508	383	284	201	133	72	0
-30°	500	379	277	201	133	68	0
-32.5°	489	379	277	197	129	68	0
-35°	481	371	273	189	129	68	0
-37.5°	477	367	269	186	125	64	0
-40°	470	360	265	182	121	64	0
-42.5°	458	356	258	174	117	61	0
-45°	447	349	254	171	117	57	0
-47.5°	436	337	246	167	114	57	0
-50°	420	330	242	163	110	53	0
-52.5°	409	318	235	159	106	49	0
-55°	394	307	224	155	102	49	0
-57.5°	379	292	216	148	95	46	0
-60°	364	280	208	140	91	42	0
-62.5°	341	265	193	133	87	38	0
-65°	322	250	182	125	80	34	0
-67.5°	303	231	171	117	72	34	0
-70°	280	212	155	110	64	30	0
-72.5°	250	189	140	95	57	27	0
-75°	220	167	125	83	49	23	0
-77.5°	189	144	106	68	42	19	0
-80°	155	117	83	57	34	15	0
-82.5°	117	87	64	42	27	11	0
-85°	80	61	42	27	15	8	0
-87.5°	38	30	23	15	8	4	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)