

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: LUMARK

Report Number: P731777

Luminaire Tested: **NHRS50UBZ740**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731777
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ740
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 4000K
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

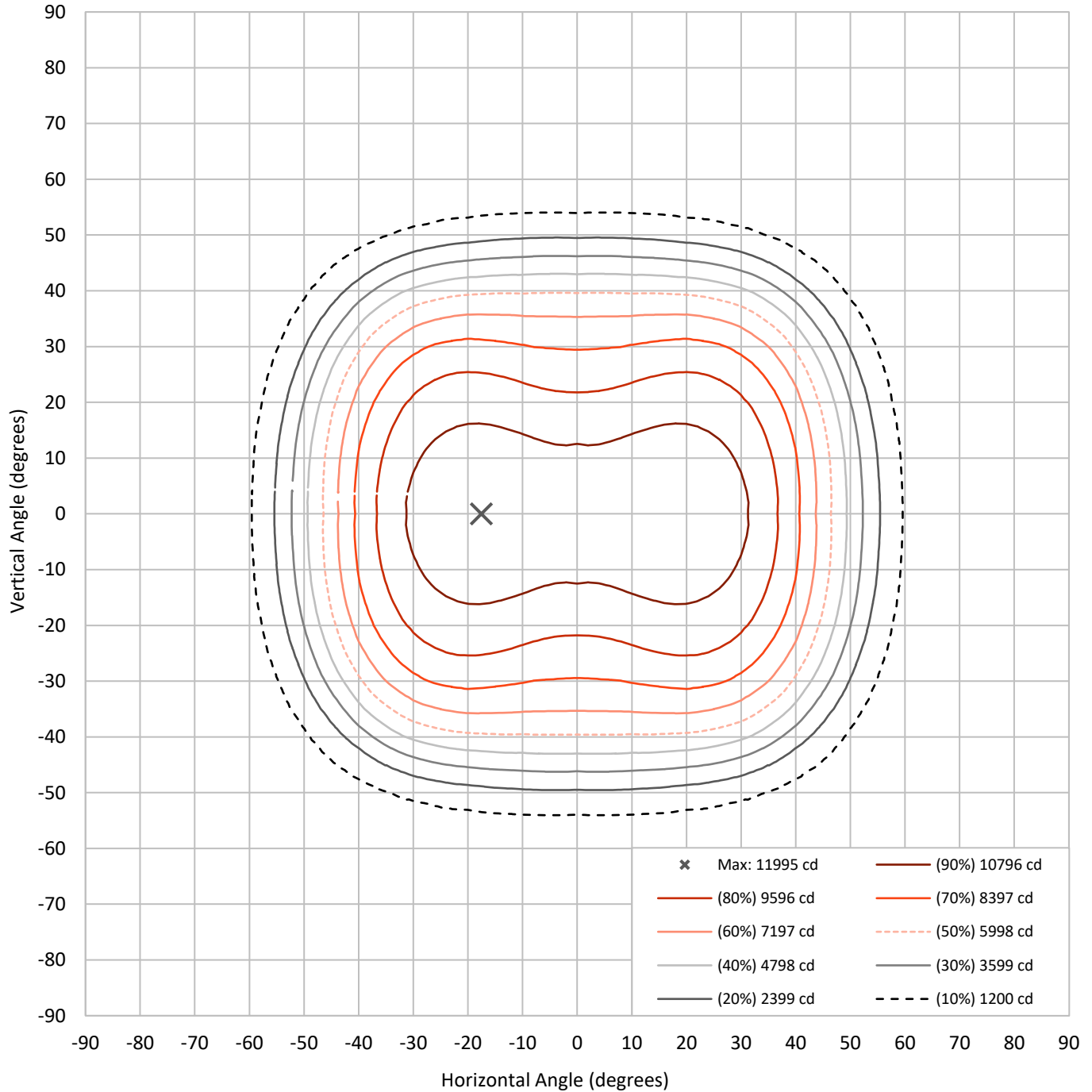
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	21706.2 lumens	Max Intensity:	11995 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	145.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.5' x H: 0')		
Beam Angle (50%):	92.8°H x 78.8°V	Field Angle (10%):	119.1°H x 106.8°V
Beam Lumens:	17387.7 lumens	Field Lumens:	20915 lumens
Beam Efficiency:	80.1%	Field Efficiency:	96.4%
Input Watts (W):	149.7		
Input Voltage (V):	120		
Input Current (A _{in}):	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:	28.75 FT		



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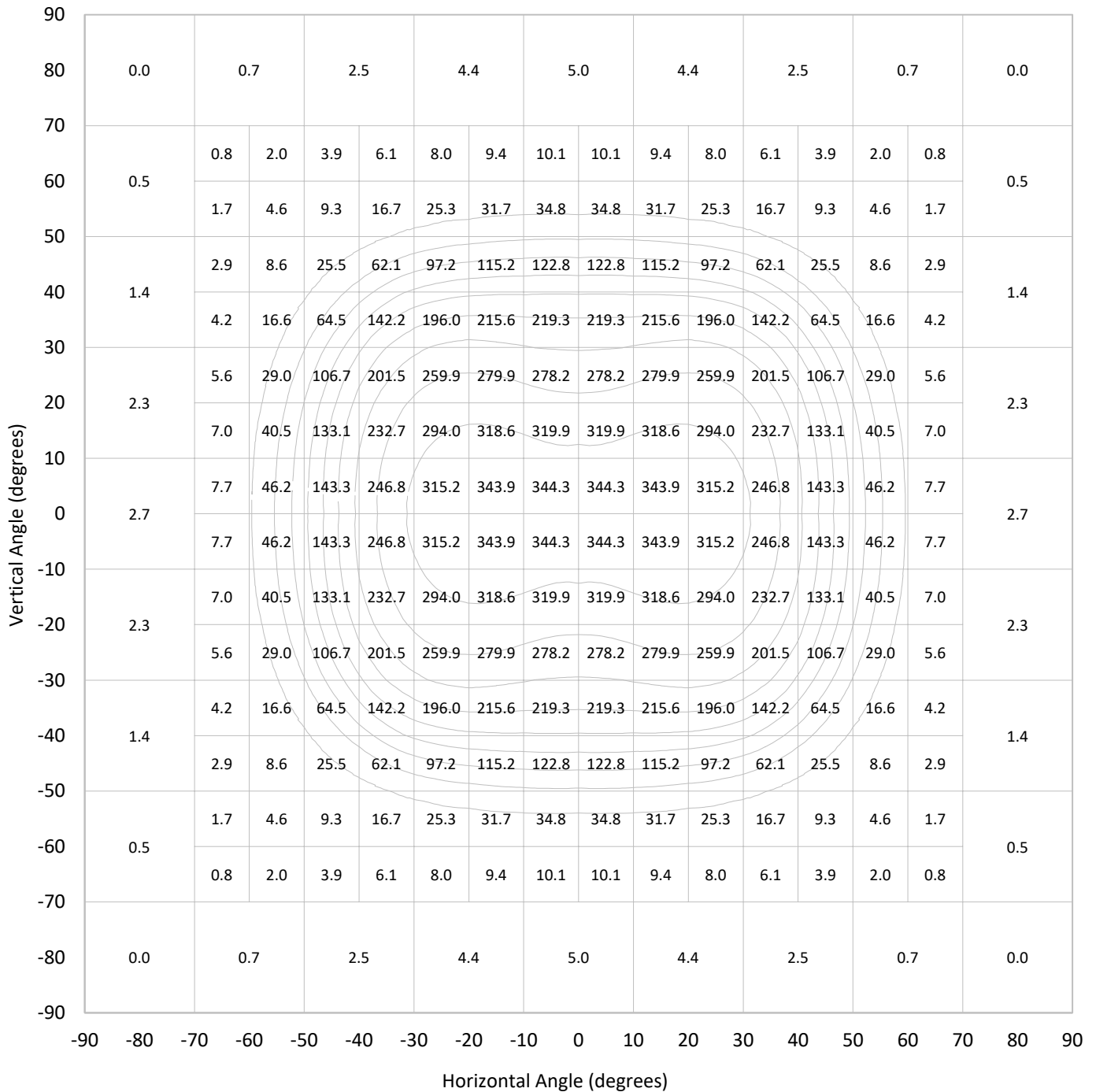
Iso-Candela Plot





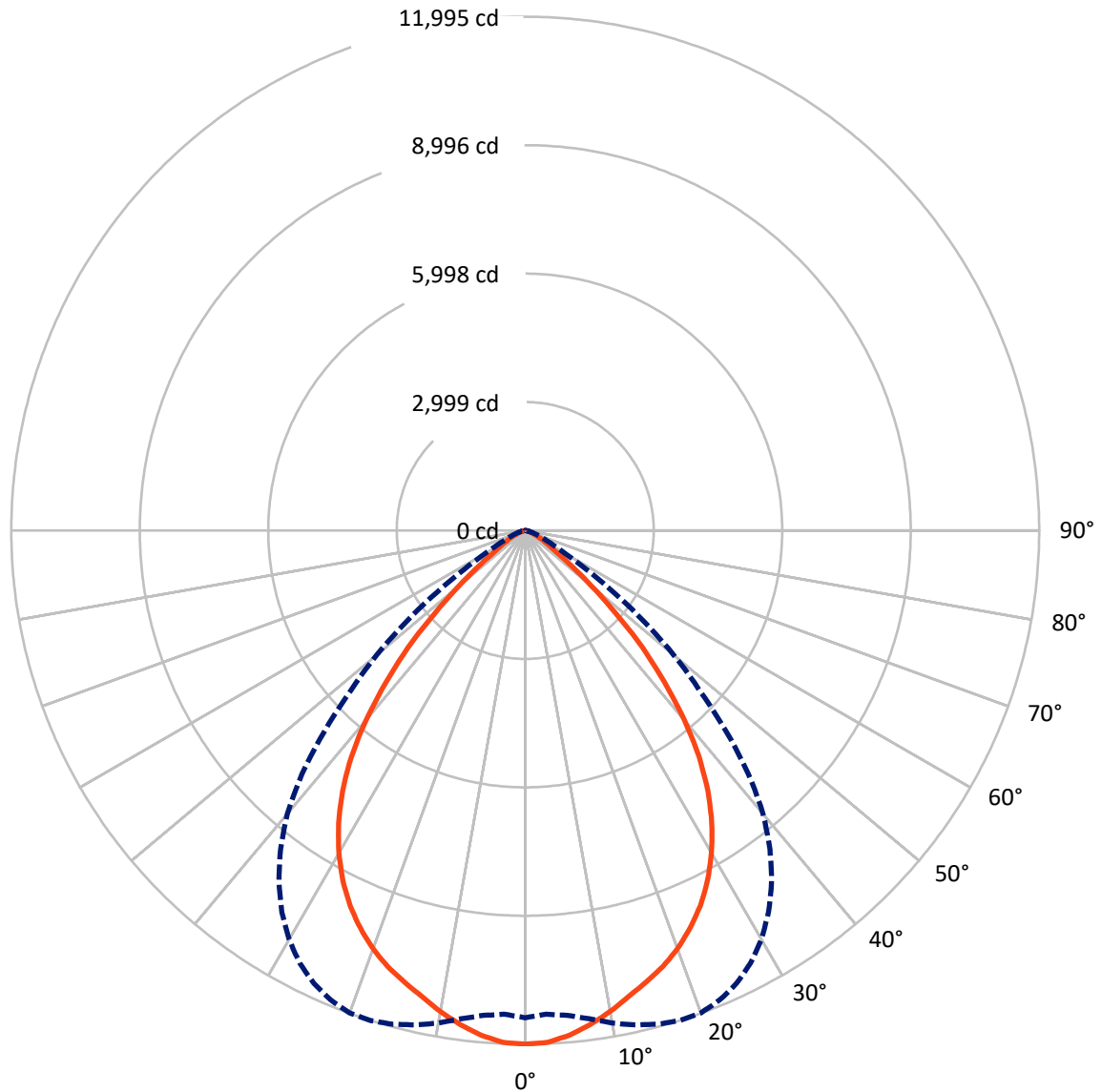
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Lumen Table



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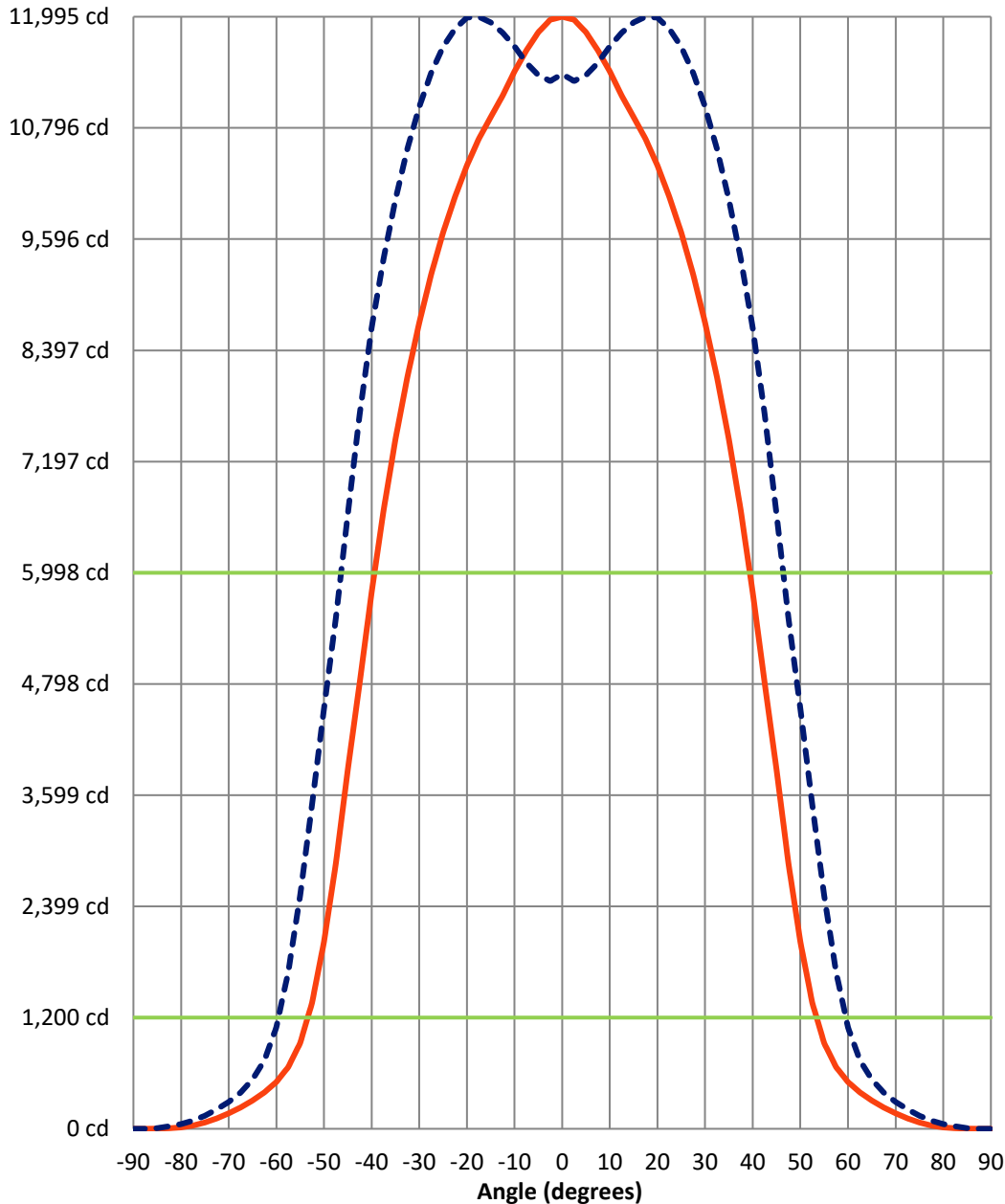
Luminous Intensity Polar Plot



— Vertical Distribution Through -17.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 92.8°
 V Angle: 78.8°
 Lumens: 17387.7
 Efficiency: 80.1%

Field:
 H Angle: 119.1°
 V Angle: 106.8°
 Lumens: 20915
 Efficiency: 96.4%

Spill:
 Lumens: 791.1
 Efficiency: 3.6%

— Vertical Distribution through -17.5-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	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	1	1
80°	0	0	0	0	0	0	0	1	2	2	3
77.5°	0	0	0	0	0	0	2	3	4	4	6
75°	0	0	0	0	0	2	3	4	6	9	12
72.5°	0	0	0	0	1	3	5	7	12	16	19
70°	0	0	0	0	2	4	7	13	18	22	30
67.5°	0	0	0	1	3	6	12	18	24	33	41
65°	0	0	0	2	5	8	16	24	33	43	54
62.5°	0	0	0	3	6	12	21	31	42	53	70
60°	0	0	0	3	7	16	26	38	50	68	86
57.5°	0	0	1	4	9	20	31	45	62	82	105
55°	0	0	1	5	12	23	37	53	74	97	125
52.5°	0	0	2	6	15	27	43	62	86	114	146
50°	0	0	2	6	18	31	48	72	99	131	167
47.5°	0	0	2	7	20	35	53	81	114	148	189
45°	0	0	3	9	23	39	61	90	127	167	210
42.5°	0	0	3	11	25	43	68	100	140	185	235
40°	0	0	4	13	27	47	75	110	153	203	259
37.5°	0	0	4	14	30	50	81	120	167	220	281
35°	0	0	4	16	33	55	87	130	181	239	305
32.5°	0	0	5	17	35	59	93	139	194	256	331
30°	0	0	5	18	37	63	100	147	206	273	354
27.5°	0	0	5	20	40	67	106	157	218	288	376
25°	0	0	6	21	42	71	112	166	230	304	397
22.5°	0	0	6	22	43	74	117	174	241	321	422
20°	0	0	6	23	45	77	122	182	251	336	444
17.5°	0	0	6	24	46	79	127	188	260	349	464
15°	0	0	7	25	48	82	131	194	268	360	482
12.5°	0	0	7	25	49	84	134	199	274	369	496
10°	0	0	7	26	50	85	137	203	280	377	509
7.5°	0	0	7	27	51	86	139	206	284	383	519
5°	0	0	7	27	51	88	141	210	290	391	526
2.5°	0	0	7	27	51	88	141	210	290	391	532
0°	0	0	7	27	51	88	141	210	290	391	532
-2.5°	0	0	7	27	51	88	141	210	290	391	532
-5°	0	0	7	27	51	88	141	210	290	391	526
-7.5°	0	0	7	27	51	86	139	206	284	383	519
-10°	0	0	7	26	50	85	137	203	280	377	509
-12.5°	0	0	7	25	49	84	134	199	274	369	496
-15°	0	0	7	25	48	82	131	194	268	360	482
-17.5°	0	0	6	24	46	79	127	188	260	349	464
-20°	0	0	6	23	45	77	122	182	251	336	444



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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	0	6	22	43	74	117	174	241	321	422
-25°	0	0	6	21	42	71	112	166	230	304	397
-27.5°	0	0	5	20	40	67	106	157	218	288	376
-30°	0	0	5	18	37	63	100	147	206	273	354
-32.5°	0	0	5	17	35	59	93	139	194	256	331
-35°	0	0	4	16	33	55	87	130	181	239	305
-37.5°	0	0	4	14	30	50	81	120	167	220	281
-40°	0	0	4	13	27	47	75	110	153	203	259
-42.5°	0	0	3	11	25	43	68	100	140	185	235
-45°	0	0	3	9	23	39	61	90	127	167	210
-47.5°	0	0	2	7	20	35	53	81	114	148	189
-50°	0	0	2	6	18	31	48	72	99	131	167
-52.5°	0	0	2	6	15	27	43	62	86	114	146
-55°	0	0	1	5	12	23	37	53	74	97	125
-57.5°	0	0	1	4	9	20	31	45	62	82	105
-60°	0	0	0	3	7	16	26	38	50	68	86
-62.5°	0	0	0	3	6	12	21	31	42	53	70
-65°	0	0	0	2	5	8	16	24	33	43	54
-67.5°	0	0	0	1	3	6	12	18	24	33	41
-70°	0	0	0	0	2	4	7	13	18	22	30
-72.5°	0	0	0	0	1	3	5	7	12	16	19
-75°	0	0	0	0	0	2	3	4	6	9	12
-77.5°	0	0	0	0	0	0	2	3	4	4	6
-80°	0	0	0	0	0	0	0	1	2	2	3
-82.5°	0	0	0	0	0	0	0	0	0	1	1
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-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°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	1	1	1
82.5°	1	2	2	1	1	1	1	2	3	3	4
80°	3	3	4	5	6	6	7	7	7	9	10
77.5°	8	10	11	11	12	15	17	18	20	22	23
75°	15	17	20	23	26	29	31	36	40	45	48
72.5°	24	29	33	38	44	51	57	62	68	75	81
70°	37	42	51	60	68	77	87	96	104	113	122
67.5°	50	62	72	84	97	109	121	134	147	158	169
65°	69	82	97	113	130	146	162	178	195	211	225
62.5°	87	106	124	144	166	186	207	228	251	268	285
60°	109	131	154	179	204	231	256	282	306	327	354
57.5°	131	158	186	215	247	278	310	339	373	403	435
55°	154	187	220	256	293	332	370	414	451	505	551
52.5°	180	216	257	299	344	393	446	506	573	641	729
50°	205	250	296	347	403	465	547	630	743	853	997
47.5°	233	283	341	399	471	561	668	823	966	1196	1414
45°	262	320	384	463	554	674	856	1053	1351	1641	2025
42.5°	293	358	437	525	659	840	1066	1432	1811	2260	2749
40°	322	395	490	619	783	1035	1403	1839	2400	2968	3589
37.5°	355	442	550	707	962	1302	1773	2357	3023	3758	4387
35°	385	488	628	829	1140	1618	2211	2892	3670	4476	5195
32.5°	421	534	702	972	1381	1949	2667	3467	4302	5153	5966
30°	457	593	787	1105	1628	2321	3144	4010	4898	5776	6570
27.5°	490	652	901	1293	1874	2662	3570	4521	5451	6349	7118
25°	521	704	1006	1486	2164	3010	3960	4946	5964	6835	7581
22.5°	556	752	1096	1660	2424	3334	4315	5333	6357	7277	8013
20°	595	826	1208	1816	2651	3618	4625	5675	6689	7594	8355
17.5°	628	890	1327	1994	2865	3861	4892	6010	6991	7892	8621
15°	657	944	1427	2142	3049	4061	5116	6201	7241	8148	8867
12.5°	681	989	1508	2261	3197	4220	5292	6385	7429	8333	9047
10°	700	1024	1570	2352	3307	4339	5422	6525	7571	8467	9185
7.5°	716	1052	1616	2414	3382	4417	5507	6618	7673	8572	9294
5°	729	1076	1658	2472	3445	4474	5548	6664	7732	8642	9375
2.5°	738	1095	1692	2520	3505	4541	5573	6694	7771	8689	9426
0°	739	1096	1692	2517	3499	4531	5511	6628	7710	8638	9382
-2.5°	738	1095	1692	2520	3505	4541	5573	6694	7771	8689	9426
-5°	729	1076	1658	2472	3445	4474	5548	6664	7732	8642	9375
-7.5°	716	1052	1616	2414	3382	4417	5507	6618	7673	8572	9294
-10°	700	1024	1570	2352	3307	4339	5422	6525	7571	8467	9185
-12.5°	681	989	1508	2261	3197	4220	5292	6385	7429	8333	9047
-15°	657	944	1427	2142	3049	4061	5116	6201	7241	8148	8867
-17.5°	628	890	1327	1994	2865	3861	4892	6010	6991	7892	8621
-20°	595	826	1208	1816	2651	3618	4625	5675	6689	7594	8355



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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°	556	752	1096	1660	2424	3334	4315	5333	6357	7277	8013
-25°	521	704	1006	1486	2164	3010	3960	4946	5964	6835	7581
-27.5°	490	652	901	1293	1874	2662	3570	4521	5451	6349	7118
-30°	457	593	787	1105	1628	2321	3144	4010	4898	5776	6570
-32.5°	421	534	702	972	1381	1949	2667	3467	4302	5153	5966
-35°	385	488	628	829	1140	1618	2211	2892	3670	4476	5195
-37.5°	355	442	550	707	962	1302	1773	2357	3023	3758	4387
-40°	322	395	490	619	783	1035	1403	1839	2400	2968	3589
-42.5°	293	358	437	525	659	840	1066	1432	1811	2260	2749
-45°	262	320	384	463	554	674	856	1053	1351	1641	2025
-47.5°	233	283	341	399	471	561	668	823	966	1196	1414
-50°	205	250	296	347	403	465	547	630	743	853	997
-52.5°	180	216	257	299	344	393	446	506	573	641	729
-55°	154	187	220	256	293	332	370	414	451	505	551
-57.5°	131	158	186	215	247	278	310	339	373	403	435
-60°	109	131	154	179	204	231	256	282	306	327	354
-62.5°	87	106	124	144	166	186	207	228	251	268	285
-65°	69	82	97	113	130	146	162	178	195	211	225
-67.5°	50	62	72	84	97	109	121	134	147	158	169
-70°	37	42	51	60	68	77	87	96	104	113	122
-72.5°	24	29	33	38	44	51	57	62	68	75	81
-75°	15	17	20	23	26	29	31	36	40	45	48
-77.5°	8	10	11	11	12	15	17	18	20	22	23
-80°	3	3	4	5	6	6	7	7	7	9	10
-82.5°	1	2	2	1	1	1	1	2	3	3	4
-85°	0	0	0	0	0	0	0	0	1	1	1
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-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°	0	0	0	0	0	0	0	0	0	0	0
85°	1	1	1	2	2	2	2	2	3	3	3
82.5°	4	5	5	5	5	5	5	6	6	6	6
80°	11	12	13	14	14	15	15	15	16	16	15
77.5°	25	28	30	31	32	33	34	35	35	34	34
75°	51	53	57	60	62	65	66	68	68	69	69
72.5°	86	91	95	100	103	107	110	112	113	114	115
70°	130	136	142	148	153	158	163	167	170	172	174
67.5°	180	189	198	205	211	218	225	230	235	238	241
65°	237	250	262	271	279	288	297	305	310	314	318
62.5°	301	319	335	348	359	370	383	393	400	406	412
60°	377	399	421	441	457	470	490	505	515	522	530
57.5°	474	502	530	569	597	614	639	666	682	689	702
55°	607	662	698	766	820	847	870	925	957	967	990
52.5°	808	918	1003	1082	1195	1256	1275	1360	1420	1446	1483
50°	1160	1317	1501	1627	1777	1884	1926	2017	2101	2140	2186
47.5°	1700	1944	2198	2400	2568	2711	2785	2864	2962	3010	3054
45°	2407	2774	3065	3321	3518	3664	3760	3873	3928	3972	3999
42.5°	3260	3693	4033	4295	4498	4659	4763	4813	4904	4939	4938
40°	4133	4650	4989	5264	5475	5648	5740	5784	5836	5856	5836
37.5°	4992	5524	5910	6191	6402	6576	6646	6666	6685	6685	6652
35°	5814	6321	6768	7028	7239	7369	7437	7436	7403	7397	7345
32.5°	6553	7057	7463	7770	7955	8058	8148	8106	8054	8005	7937
30°	7237	7691	8072	8395	8570	8667	8714	8694	8624	8541	8464
27.5°	7751	8249	8619	8896	9111	9205	9224	9215	9135	9034	8939
25°	8206	8711	9078	9334	9536	9661	9676	9666	9594	9486	9368
22.5°	8593	9069	9453	9724	9895	10019	10078	10051	10000	9884	9753
20°	8943	9420	9750	10026	10213	10329	10398	10390	10334	10238	10115
17.5°	9205	9670	10020	10296	10483	10605	10661	10677	10625	10547	10447
15°	9432	9888	10263	10534	10724	10850	10906	10912	10883	10814	10727
12.5°	9614	10081	10464	10753	10961	11082	11141	11143	11117	11062	10984
10°	9767	10248	10637	10940	11164	11307	11389	11405	11357	11292	11217
7.5°	9889	10387	10792	11120	11360	11515	11603	11632	11606	11524	11428
5°	9986	10503	10925	11265	11517	11695	11798	11827	11784	11712	11618
2.5°	10055	10594	11038	11384	11656	11845	11946	11962	11904	11810	11690
0°	10021	10568	11022	11389	11670	11864	11985	11995	11933	11822	11675
-2.5°	10055	10594	11038	11384	11656	11845	11946	11962	11904	11810	11690
-5°	9986	10503	10925	11265	11517	11695	11798	11827	11784	11712	11618
-7.5°	9889	10387	10792	11120	11360	11515	11603	11632	11606	11524	11428
-10°	9767	10248	10637	10940	11164	11307	11389	11405	11357	11292	11217
-12.5°	9614	10081	10464	10753	10961	11082	11141	11143	11117	11062	10984
-15°	9432	9888	10263	10534	10724	10850	10906	10912	10883	10814	10727
-17.5°	9205	9670	10020	10296	10483	10605	10661	10677	10625	10547	10447
-20°	8943	9420	9750	10026	10213	10329	10398	10390	10334	10238	10115



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8593	9069	9453	9724	9895	10019	10078	10051	10000	9884	9753
-25°	8206	8711	9078	9334	9536	9661	9676	9666	9594	9486	9368
-27.5°	7751	8249	8619	8896	9111	9205	9224	9215	9135	9034	8939
-30°	7237	7691	8072	8395	8570	8667	8714	8694	8624	8541	8464
-32.5°	6553	7057	7463	7770	7955	8058	8148	8106	8054	8005	7937
-35°	5814	6321	6768	7028	7239	7369	7437	7436	7403	7397	7345
-37.5°	4992	5524	5910	6191	6402	6576	6646	6666	6685	6685	6652
-40°	4133	4650	4989	5264	5475	5648	5740	5784	5836	5856	5836
-42.5°	3260	3693	4033	4295	4498	4659	4763	4813	4904	4939	4938
-45°	2407	2774	3065	3321	3518	3664	3760	3873	3928	3972	3999
-47.5°	1700	1944	2198	2400	2568	2711	2785	2864	2962	3010	3054
-50°	1160	1317	1501	1627	1777	1884	1926	2017	2101	2140	2186
-52.5°	808	918	1003	1082	1195	1256	1275	1360	1420	1446	1483
-55°	607	662	698	766	820	847	870	925	957	967	990
-57.5°	474	502	530	569	597	614	639	666	682	689	702
-60°	377	399	421	441	457	470	490	505	515	522	530
-62.5°	301	319	335	348	359	370	383	393	400	406	412
-65°	237	250	262	271	279	288	297	305	310	314	318
-67.5°	180	189	198	205	211	218	225	230	235	238	241
-70°	130	136	142	148	153	158	163	167	170	172	174
-72.5°	86	91	95	100	103	107	110	112	113	114	115
-75°	51	53	57	60	62	65	66	68	68	69	69
-77.5°	25	28	30	31	32	33	34	35	35	34	34
-80°	11	12	13	14	14	15	15	15	16	16	15
-82.5°	4	5	5	5	5	5	5	6	6	6	6
-85°	1	1	1	2	2	2	2	2	3	3	3
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-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°	0	0	0	0	0	0	0	0	0	0	0
85°	3	3	3	3	3	3	3	3	3	3	2
82.5°	6	6	6	7	6	6	6	6	6	6	6
80°	16	15	15	16	15	15	16	15	16	16	15
77.5°	34	33	33	33	33	33	34	34	34	35	35
75°	68	68	68	67	68	68	68	69	69	68	68
72.5°	115	116	114	112	114	116	115	115	114	113	112
70°	175	177	178	179	178	177	175	174	172	170	167
67.5°	243	245	246	247	246	245	243	241	238	235	230
65°	321	321	323	322	323	321	321	318	314	310	305
62.5°	416	417	418	415	418	417	416	412	406	400	393
60°	536	537	539	534	539	537	536	530	522	515	505
57.5°	709	711	712	704	712	711	709	702	689	682	666
55°	1001	1001	1001	987	1001	1001	1001	990	967	957	925
52.5°	1509	1512	1516	1492	1516	1512	1509	1483	1446	1420	1360
50°	2225	2234	2242	2211	2242	2234	2225	2186	2140	2101	2017
47.5°	3106	3118	3130	3093	3130	3118	3106	3054	3010	2962	2864
45°	4057	4071	4085	4046	4085	4071	4057	3999	3972	3928	3873
42.5°	4992	5001	5009	4974	5009	5001	4992	4938	4939	4904	4813
40°	5875	5879	5885	5865	5885	5879	5875	5836	5856	5836	5784
37.5°	6660	6660	6660	6643	6660	6660	6660	6652	6685	6685	6666
35°	7315	7311	7304	7292	7304	7311	7315	7345	7397	7403	7436
32.5°	7871	7862	7842	7828	7842	7862	7871	7937	8005	8054	8106
30°	8361	8346	8313	8301	8313	8346	8361	8464	8541	8624	8694
27.5°	8824	8782	8727	8726	8727	8782	8824	8939	9034	9135	9215
25°	9250	9176	9121	9112	9121	9176	9250	9368	9486	9594	9666
22.5°	9641	9547	9501	9488	9501	9547	9641	9753	9884	10000	10051
20°	10001	9902	9876	9867	9876	9902	10001	10115	10238	10334	10390
17.5°	10329	10248	10230	10229	10230	10248	10329	10447	10547	10625	10677
15°	10629	10551	10523	10545	10523	10551	10629	10727	10814	10883	10912
12.5°	10895	10808	10774	10802	10774	10808	10895	10984	11062	11117	11143
10°	11134	11041	10991	11035	10991	11041	11134	11217	11292	11357	11405
7.5°	11335	11257	11197	11247	11197	11257	11335	11428	11524	11606	11632
5°	11485	11391	11329	11363	11329	11391	11485	11618	11712	11784	11827
2.5°	11553	11467	11392	11386	11392	11467	11553	11690	11810	11904	11962
0°	11497	11365	11302	11376	11302	11365	11497	11675	11822	11933	11995
-2.5°	11553	11467	11392	11386	11392	11467	11553	11690	11810	11904	11962
-5°	11485	11391	11329	11363	11329	11391	11485	11618	11712	11784	11827
-7.5°	11335	11257	11197	11247	11197	11257	11335	11428	11524	11606	11632
-10°	11134	11041	10991	11035	10991	11041	11134	11217	11292	11357	11405
-12.5°	10895	10808	10774	10802	10774	10808	10895	10984	11062	11117	11143
-15°	10629	10551	10523	10545	10523	10551	10629	10727	10814	10883	10912
-17.5°	10329	10248	10230	10229	10230	10248	10329	10447	10547	10625	10677
-20°	10001	9902	9876	9867	9876	9902	10001	10115	10238	10334	10390



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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°	9641	9547	9501	9488	9501	9547	9641	9753	9884	10000	10051
-25°	9250	9176	9121	9112	9121	9176	9250	9368	9486	9594	9666
-27.5°	8824	8782	8727	8726	8727	8782	8824	8939	9034	9135	9215
-30°	8361	8346	8313	8301	8313	8346	8361	8464	8541	8624	8694
-32.5°	7871	7862	7842	7828	7842	7862	7871	7937	8005	8054	8106
-35°	7315	7311	7304	7292	7304	7311	7315	7345	7397	7403	7436
-37.5°	6660	6660	6660	6643	6660	6660	6660	6652	6685	6685	6666
-40°	5875	5879	5885	5865	5885	5879	5875	5836	5856	5836	5784
-42.5°	4992	5001	5009	4974	5009	5001	4992	4938	4939	4904	4813
-45°	4057	4071	4085	4046	4085	4071	4057	3999	3972	3928	3873
-47.5°	3106	3118	3130	3093	3130	3118	3106	3054	3010	2962	2864
-50°	2225	2234	2242	2211	2242	2234	2225	2186	2140	2101	2017
-52.5°	1509	1512	1516	1492	1516	1512	1509	1483	1446	1420	1360
-55°	1001	1001	1001	987	1001	1001	1001	990	967	957	925
-57.5°	709	711	712	704	712	711	709	702	689	682	666
-60°	536	537	539	534	539	537	536	530	522	515	505
-62.5°	416	417	418	415	418	417	416	412	406	400	393
-65°	321	321	323	322	323	321	321	318	314	310	305
-67.5°	243	245	246	247	246	245	243	241	238	235	230
-70°	175	177	178	179	178	177	175	174	172	170	167
-72.5°	115	116	114	112	114	116	115	115	114	113	112
-75°	68	68	68	67	68	68	68	69	69	68	68
-77.5°	34	33	33	33	33	33	34	34	34	35	35
-80°	16	15	15	16	15	15	16	15	16	16	15
-82.5°	6	6	6	7	6	6	6	6	6	6	6
-85°	3	3	3	3	3	3	3	3	3	3	2
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	2	2	2	2	1	1	1	1	1	1	0
82.5°	5	5	5	5	5	5	4	4	3	3	2
80°	15	15	14	14	13	12	11	10	9	7	7
77.5°	34	33	32	31	30	28	25	23	22	20	18
75°	66	65	62	60	57	53	51	48	45	40	36
72.5°	110	107	103	100	95	91	86	81	75	68	62
70°	163	158	153	148	142	136	130	122	113	104	96
67.5°	225	218	211	205	198	189	180	169	158	147	134
65°	297	288	279	271	262	250	237	225	211	195	178
62.5°	383	370	359	348	335	319	301	285	268	251	228
60°	490	470	457	441	421	399	377	354	327	306	282
57.5°	639	614	597	569	530	502	474	435	403	373	339
55°	870	847	820	766	698	662	607	551	505	451	414
52.5°	1275	1256	1195	1082	1003	918	808	729	641	573	506
50°	1926	1884	1777	1627	1501	1317	1160	997	853	743	630
47.5°	2785	2711	2568	2400	2198	1944	1700	1414	1196	966	823
45°	3760	3664	3518	3321	3065	2774	2407	2025	1641	1351	1053
42.5°	4763	4659	4498	4295	4033	3693	3260	2749	2260	1811	1432
40°	5740	5648	5475	5264	4989	4650	4133	3589	2968	2400	1839
37.5°	6646	6576	6402	6191	5910	5524	4992	4387	3758	3023	2357
35°	7437	7369	7239	7028	6768	6321	5814	5195	4476	3670	2892
32.5°	8148	8058	7955	7770	7463	7057	6553	5966	5153	4302	3467
30°	8714	8667	8570	8395	8072	7691	7237	6570	5776	4898	4010
27.5°	9224	9205	9111	8896	8619	8249	7751	7118	6349	5451	4521
25°	9676	9661	9536	9334	9078	8711	8206	7581	6835	5964	4946
22.5°	10078	10019	9895	9724	9453	9069	8593	8013	7277	6357	5333
20°	10398	10329	10213	10026	9750	9420	8943	8355	7594	6689	5675
17.5°	10661	10605	10483	10296	10020	9670	9205	8621	7892	6991	6010
15°	10906	10850	10724	10534	10263	9888	9432	8867	8148	7241	6201
12.5°	11141	11082	10961	10753	10464	10081	9614	9047	8333	7429	6385
10°	11389	11307	11164	10940	10637	10248	9767	9185	8467	7571	6525
7.5°	11603	11515	11360	11120	10792	10387	9889	9294	8572	7673	6618
5°	11798	11695	11517	11265	10925	10503	9986	9375	8642	7732	6664
2.5°	11946	11845	11656	11384	11038	10594	10055	9426	8689	7771	6694
0°	11985	11864	11670	11389	11022	10568	10021	9382	8638	7710	6628
-2.5°	11946	11845	11656	11384	11038	10594	10055	9426	8689	7771	6694
-5°	11798	11695	11517	11265	10925	10503	9986	9375	8642	7732	6664
-7.5°	11603	11515	11360	11120	10792	10387	9889	9294	8572	7673	6618
-10°	11389	11307	11164	10940	10637	10248	9767	9185	8467	7571	6525
-12.5°	11141	11082	10961	10753	10464	10081	9614	9047	8333	7429	6385
-15°	10906	10850	10724	10534	10263	9888	9432	8867	8148	7241	6201
-17.5°	10661	10605	10483	10296	10020	9670	9205	8621	7892	6991	6010
-20°	10398	10329	10213	10026	9750	9420	8943	8355	7594	6689	5675



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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°	10078	10019	9895	9724	9453	9069	8593	8013	7277	6357	5333
-25°	9676	9661	9536	9334	9078	8711	8206	7581	6835	5964	4946
-27.5°	9224	9205	9111	8896	8619	8249	7751	7118	6349	5451	4521
-30°	8714	8667	8570	8395	8072	7691	7237	6570	5776	4898	4010
-32.5°	8148	8058	7955	7770	7463	7057	6553	5966	5153	4302	3467
-35°	7437	7369	7239	7028	6768	6321	5814	5195	4476	3670	2892
-37.5°	6646	6576	6402	6191	5910	5524	4992	4387	3758	3023	2357
-40°	5740	5648	5475	5264	4989	4650	4133	3589	2968	2400	1839
-42.5°	4763	4659	4498	4295	4033	3693	3260	2749	2260	1811	1432
-45°	3760	3664	3518	3321	3065	2774	2407	2025	1641	1351	1053
-47.5°	2785	2711	2568	2400	2198	1944	1700	1414	1196	966	823
-50°	1926	1884	1777	1627	1501	1317	1160	997	853	743	630
-52.5°	1275	1256	1195	1082	1003	918	808	729	641	573	506
-55°	870	847	820	766	698	662	607	551	505	451	414
-57.5°	639	614	597	569	530	502	474	435	403	373	339
-60°	490	470	457	441	421	399	377	354	327	306	282
-62.5°	383	370	359	348	335	319	301	285	268	251	228
-65°	297	288	279	271	262	250	237	225	211	195	178
-67.5°	225	218	211	205	198	189	180	169	158	147	134
-70°	163	158	153	148	142	136	130	122	113	104	96
-72.5°	110	107	103	100	95	91	86	81	75	68	62
-75°	66	65	62	60	57	53	51	48	45	40	36
-77.5°	34	33	32	31	30	28	25	23	22	20	18
-80°	15	15	14	14	13	12	11	10	9	7	7
-82.5°	5	5	5	5	5	5	4	4	3	3	2
-85°	2	2	2	2	1	1	1	1	1	1	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-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°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	1	1	1	1	2	2	1	1	1	0	0
80°	7	6	6	5	4	3	3	3	2	2	1
77.5°	17	15	12	11	11	10	8	6	4	4	3
75°	31	29	26	23	20	17	15	12	9	6	4
72.5°	57	51	44	38	33	29	24	19	16	12	7
70°	87	77	68	60	51	42	37	30	22	18	13
67.5°	121	109	97	84	72	62	50	41	33	24	18
65°	162	146	130	113	97	82	69	54	43	33	24
62.5°	207	186	166	144	124	106	87	70	53	42	31
60°	256	231	204	179	154	131	109	86	68	50	38
57.5°	310	278	247	215	186	158	131	105	82	62	45
55°	370	332	293	256	220	187	154	125	97	74	53
52.5°	446	393	344	299	257	216	180	146	114	86	62
50°	547	465	403	347	296	250	205	167	131	99	72
47.5°	668	561	471	399	341	283	233	189	148	114	81
45°	856	674	554	463	384	320	262	210	167	127	90
42.5°	1066	840	659	525	437	358	293	235	185	140	100
40°	1403	1035	783	619	490	395	322	259	203	153	110
37.5°	1773	1302	962	707	550	442	355	281	220	167	120
35°	2211	1618	1140	829	628	488	385	305	239	181	130
32.5°	2667	1949	1381	972	702	534	421	331	256	194	139
30°	3144	2321	1628	1105	787	593	457	354	273	206	147
27.5°	3570	2662	1874	1293	901	652	490	376	288	218	157
25°	3960	3010	2164	1486	1006	704	521	397	304	230	166
22.5°	4315	3334	2424	1660	1096	752	556	422	321	241	174
20°	4625	3618	2651	1816	1208	826	595	444	336	251	182
17.5°	4892	3861	2865	1994	1327	890	628	464	349	260	188
15°	5116	4061	3049	2142	1427	944	657	482	360	268	194
12.5°	5292	4220	3197	2261	1508	989	681	496	369	274	199
10°	5422	4339	3307	2352	1570	1024	700	509	377	280	203
7.5°	5507	4417	3382	2414	1616	1052	716	519	383	284	206
5°	5548	4474	3445	2472	1658	1076	729	526	391	290	210
2.5°	5573	4541	3505	2520	1692	1095	738	532	391	290	210
0°	5511	4531	3499	2517	1692	1096	739	532	391	290	210
-2.5°	5573	4541	3505	2520	1692	1095	738	532	391	290	210
-5°	5548	4474	3445	2472	1658	1076	729	526	391	290	210
-7.5°	5507	4417	3382	2414	1616	1052	716	519	383	284	206
-10°	5422	4339	3307	2352	1570	1024	700	509	377	280	203
-12.5°	5292	4220	3197	2261	1508	989	681	496	369	274	199
-15°	5116	4061	3049	2142	1427	944	657	482	360	268	194
-17.5°	4892	3861	2865	1994	1327	890	628	464	349	260	188
-20°	4625	3618	2651	1816	1208	826	595	444	336	251	182



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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°	4315	3334	2424	1660	1096	752	556	422	321	241	174
-25°	3960	3010	2164	1486	1006	704	521	397	304	230	166
-27.5°	3570	2662	1874	1293	901	652	490	376	288	218	157
-30°	3144	2321	1628	1105	787	593	457	354	273	206	147
-32.5°	2667	1949	1381	972	702	534	421	331	256	194	139
-35°	2211	1618	1140	829	628	488	385	305	239	181	130
-37.5°	1773	1302	962	707	550	442	355	281	220	167	120
-40°	1403	1035	783	619	490	395	322	259	203	153	110
-42.5°	1066	840	659	525	437	358	293	235	185	140	100
-45°	856	674	554	463	384	320	262	210	167	127	90
-47.5°	668	561	471	399	341	283	233	189	148	114	81
-50°	547	465	403	347	296	250	205	167	131	99	72
-52.5°	446	393	344	299	257	216	180	146	114	86	62
-55°	370	332	293	256	220	187	154	125	97	74	53
-57.5°	310	278	247	215	186	158	131	105	82	62	45
-60°	256	231	204	179	154	131	109	86	68	50	38
-62.5°	207	186	166	144	124	106	87	70	53	42	31
-65°	162	146	130	113	97	82	69	54	43	33	24
-67.5°	121	109	97	84	72	62	50	41	33	24	18
-70°	87	77	68	60	51	42	37	30	22	18	13
-72.5°	57	51	44	38	33	29	24	19	16	12	7
-75°	31	29	26	23	20	17	15	12	9	6	4
-77.5°	17	15	12	11	11	10	8	6	4	4	3
-80°	7	6	6	5	4	3	3	3	2	2	1
-82.5°	1	1	1	1	2	2	1	1	1	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-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°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	2	0	0	0	0	0	0
75°	3	2	0	0	0	0	0
72.5°	5	3	1	0	0	0	0
70°	7	4	2	0	0	0	0
67.5°	12	6	3	1	0	0	0
65°	16	8	5	2	0	0	0
62.5°	21	12	6	3	0	0	0
60°	26	16	7	3	0	0	0
57.5°	31	20	9	4	1	0	0
55°	37	23	12	5	1	0	0
52.5°	43	27	15	6	2	0	0
50°	48	31	18	6	2	0	0
47.5°	53	35	20	7	2	0	0
45°	61	39	23	9	3	0	0
42.5°	68	43	25	11	3	0	0
40°	75	47	27	13	4	0	0
37.5°	81	50	30	14	4	0	0
35°	87	55	33	16	4	0	0
32.5°	93	59	35	17	5	0	0
30°	100	63	37	18	5	0	0
27.5°	106	67	40	20	5	0	0
25°	112	71	42	21	6	0	0
22.5°	117	74	43	22	6	0	0
20°	122	77	45	23	6	0	0
17.5°	127	79	46	24	6	0	0
15°	131	82	48	25	7	0	0
12.5°	134	84	49	25	7	0	0
10°	137	85	50	26	7	0	0
7.5°	139	86	51	27	7	0	0
5°	141	88	51	27	7	0	0
2.5°	141	88	51	27	7	0	0
0°	141	88	51	27	7	0	0
-2.5°	141	88	51	27	7	0	0
-5°	141	88	51	27	7	0	0
-7.5°	139	86	51	27	7	0	0
-10°	137	85	50	26	7	0	0
-12.5°	134	84	49	25	7	0	0
-15°	131	82	48	25	7	0	0
-17.5°	127	79	46	24	6	0	0
-20°	122	77	45	23	6	0	0



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 CATALOG NUMBER: NHRS50UBZ740

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	117	74	43	22	6	0	0
-25°	112	71	42	21	6	0	0
-27.5°	106	67	40	20	5	0	0
-30°	100	63	37	18	5	0	0
-32.5°	93	59	35	17	5	0	0
-35°	87	55	33	16	4	0	0
-37.5°	81	50	30	14	4	0	0
-40°	75	47	27	13	4	0	0
-42.5°	68	43	25	11	3	0	0
-45°	61	39	23	9	3	0	0
-47.5°	53	35	20	7	2	0	0
-50°	48	31	18	6	2	0	0
-52.5°	43	27	15	6	2	0	0
-55°	37	23	12	5	1	0	0
-57.5°	31	20	9	4	1	0	0
-60°	26	16	7	3	0	0	0
-62.5°	21	12	6	3	0	0	0
-65°	16	8	5	2	0	0	0
-67.5°	12	6	3	1	0	0	0
-70°	7	4	2	0	0	0	0
-72.5°	5	3	1	0	0	0	0
-75°	3	2	0	0	0	0	0
-77.5°	2	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)