

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: P731783

Luminaire Tested: **NHRS50UBZ750_50**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731783
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ750_50
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 5000K @ 50% output
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

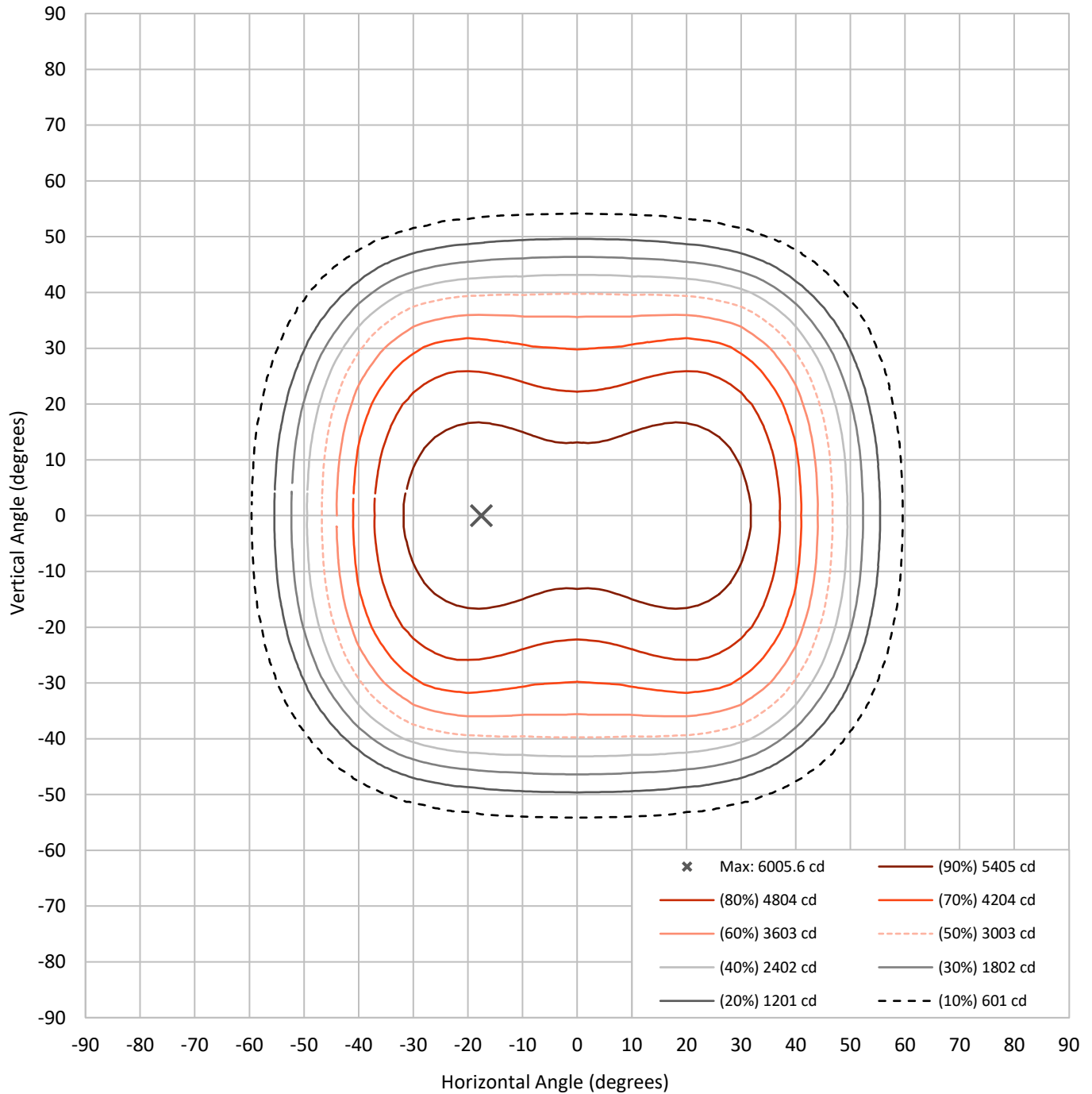
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	10947.9 lumens	Max Intensity:	6005.6 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	141.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')		
Beam Angle (50%):	93.4°H x 78.9°V	Field Angle (10%):	119.2°H x 106.9°V
Beam Lumens:	8766.7 lumens	Field Lumens:	10549.1 lumens
Beam Efficiency:	80.1%	Field Efficiency:	96.4%
Input Watts (W):	77.6		
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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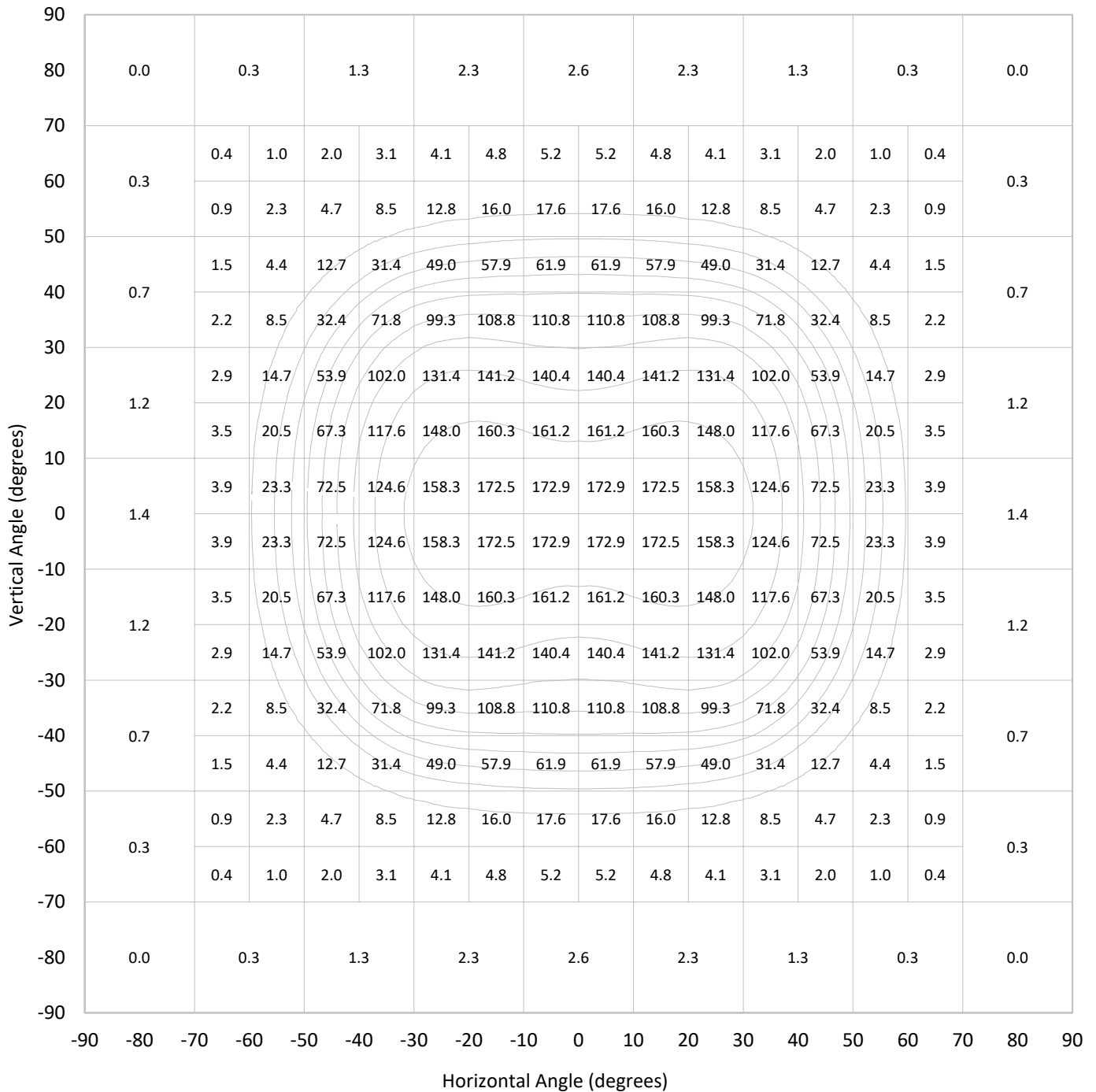
Iso-Candela Plot





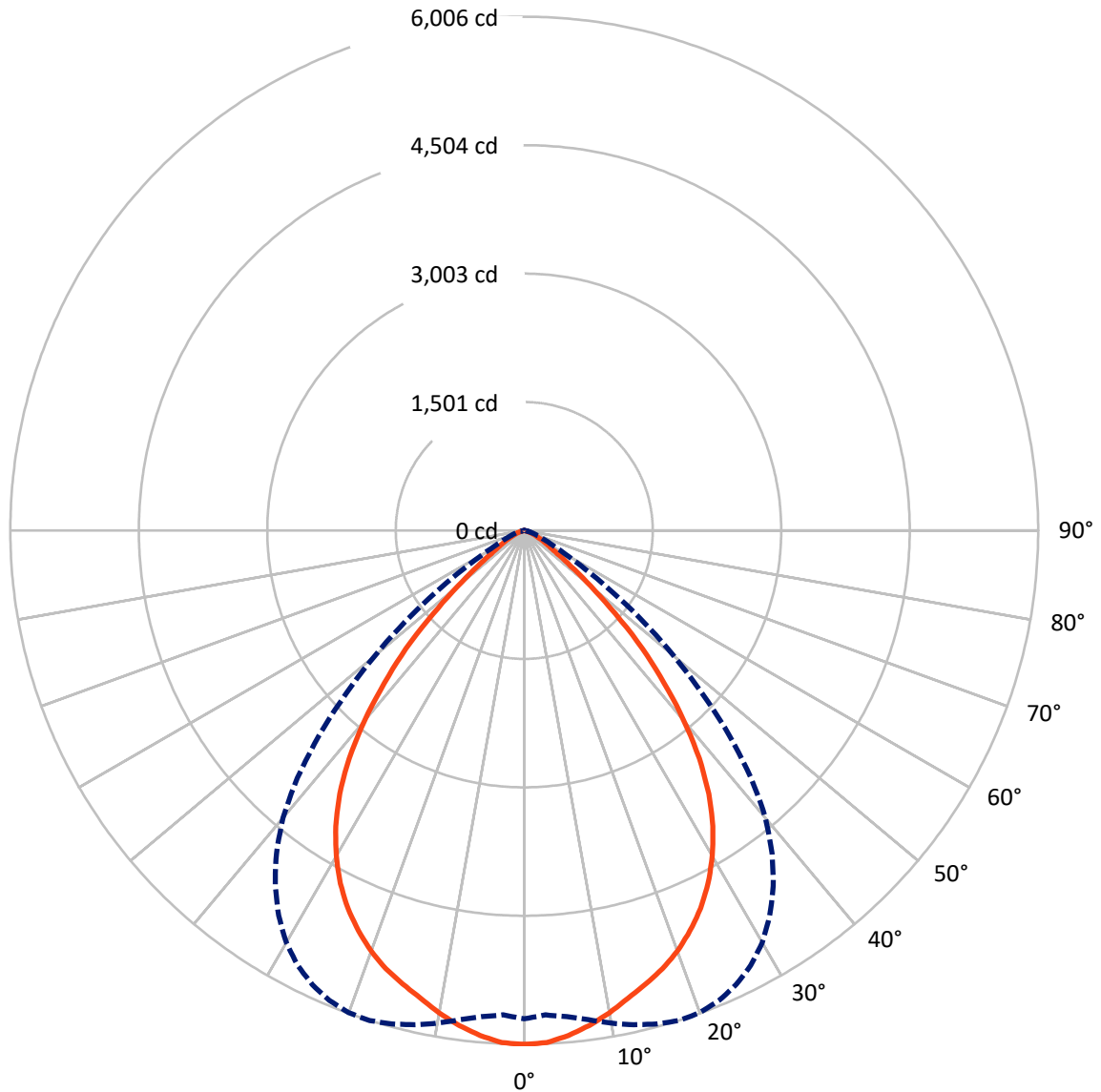
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Lumen Table



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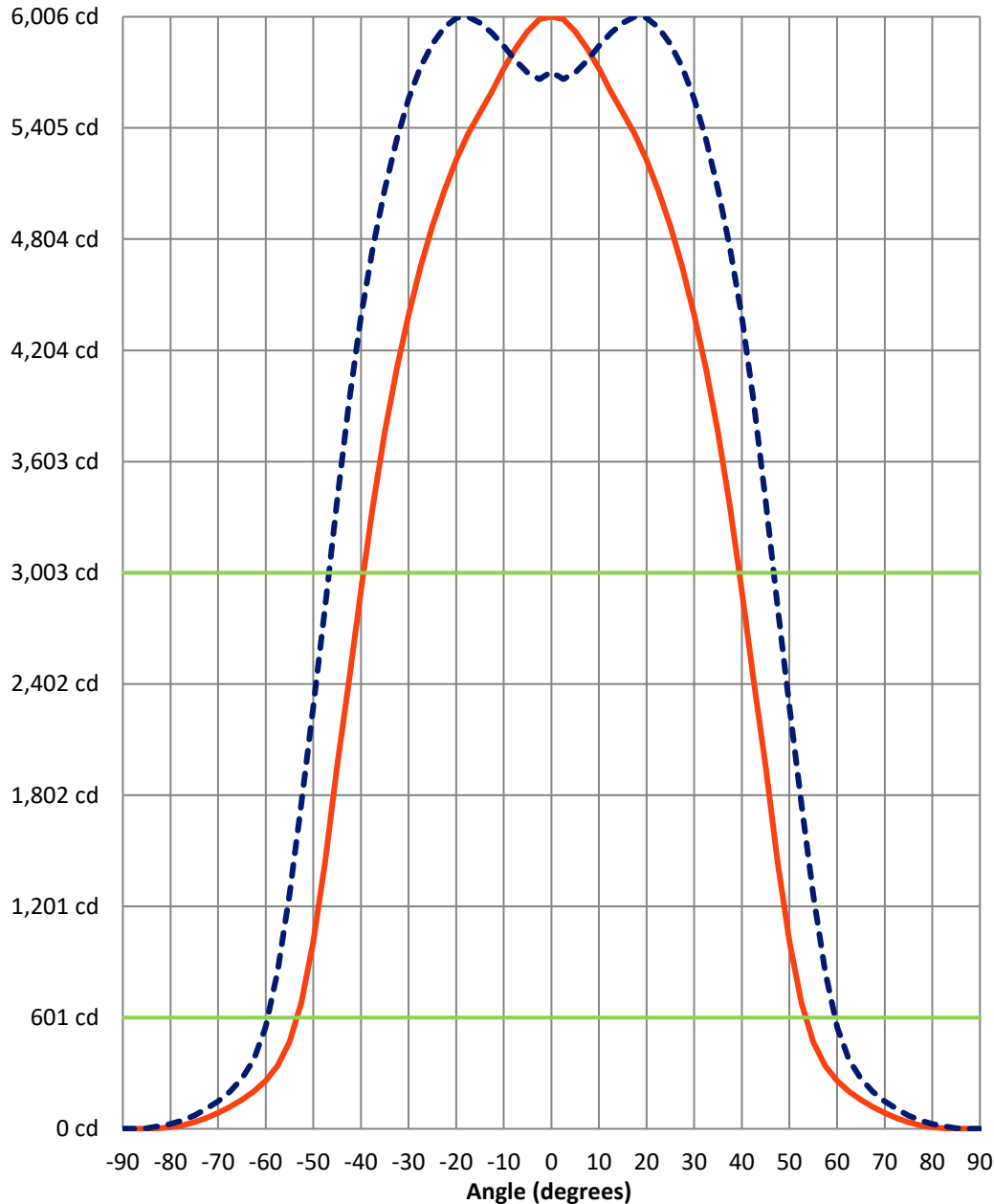
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 93.4°
 V Angle: 78.9°
 Lumens: 8766.7
 Efficiency: 80.1%

Field:
 H Angle: 119.2°
 V Angle: 106.9°
 Lumens: 10549.1
 Efficiency: 96.4%

Spill:
 Lumens: 398.8
 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	1	2	2
77.5°	0	0	0	0	0	1	1	2	2	2	3
75°	0	0	0	0	0	1	2	3	3	5	6
72.5°	0	0	0	0	1	2	3	4	6	9	10
70°	0	0	0	0	2	3	4	7	10	12	15
67.5°	0	0	0	1	2	3	6	10	13	17	21
65°	0	0	0	1	3	5	9	13	18	22	28
62.5°	0	0	0	2	3	7	11	16	22	28	37
60°	0	0	0	2	4	9	14	20	27	36	45
57.5°	0	0	1	2	5	11	16	24	32	42	54
55°	0	0	1	3	7	13	20	28	39	50	65
52.5°	0	0	1	3	8	14	22	32	45	59	76
50°	0	0	1	3	10	16	26	38	52	68	87
47.5°	0	0	1	4	11	19	28	42	59	78	98
45°	0	0	2	5	12	21	32	47	66	87	109
42.5°	0	0	2	6	14	23	36	52	73	97	122
40°	0	0	2	7	15	25	39	57	80	106	134
37.5°	0	0	2	7	16	27	42	63	87	115	146
35°	0	0	2	9	18	29	46	67	94	124	158
32.5°	0	0	2	9	19	31	49	72	101	133	171
30°	0	0	3	10	20	33	52	76	107	141	183
27.5°	0	0	3	11	21	36	55	81	113	149	194
25°	0	0	3	11	22	37	58	86	119	157	204
22.5°	0	0	3	12	23	39	61	90	125	165	217
20°	0	0	3	12	23	40	63	94	130	172	228
17.5°	0	0	3	13	24	41	65	97	134	178	238
15°	0	0	3	13	24	43	67	100	137	184	246
12.5°	0	0	3	13	25	44	68	103	141	188	253
10°	0	0	3	13	26	44	70	105	143	192	259
7.5°	0	0	3	14	26	45	71	106	145	196	264
5°	0	0	3	14	26	46	72	108	149	200	268
2.5°	0	0	3	14	26	45	72	108	149	201	271
0°	0	0	3	14	26	45	72	108	149	201	271
-2.5°	0	0	3	14	26	45	72	108	149	201	271
-5°	0	0	3	14	26	46	72	108	149	200	268
-7.5°	0	0	3	14	26	45	71	106	145	196	264
-10°	0	0	3	13	26	44	70	105	143	192	259
-12.5°	0	0	3	13	25	44	68	103	141	188	253
-15°	0	0	3	13	24	43	67	100	137	184	246
-17.5°	0	0	3	13	24	41	65	97	134	178	238
-20°	0	0	3	12	23	40	63	94	130	172	228



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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	3	12	23	39	61	90	125	165	217
-25°	0	0	3	11	22	37	58	86	119	157	204
-27.5°	0	0	3	11	21	36	55	81	113	149	194
-30°	0	0	3	10	20	33	52	76	107	141	183
-32.5°	0	0	2	9	19	31	49	72	101	133	171
-35°	0	0	2	9	18	29	46	67	94	124	158
-37.5°	0	0	2	7	16	27	42	63	87	115	146
-40°	0	0	2	7	15	25	39	57	80	106	134
-42.5°	0	0	2	6	14	23	36	52	73	97	122
-45°	0	0	2	5	12	21	32	47	66	87	109
-47.5°	0	0	1	4	11	19	28	42	59	78	98
-50°	0	0	1	3	10	16	26	38	52	68	87
-52.5°	0	0	1	3	8	14	22	32	45	59	76
-55°	0	0	1	3	7	13	20	28	39	50	65
-57.5°	0	0	1	2	5	11	16	24	32	42	54
-60°	0	0	0	2	4	9	14	20	27	36	45
-62.5°	0	0	0	2	3	7	11	16	22	28	37
-65°	0	0	0	1	3	5	9	13	18	22	28
-67.5°	0	0	0	1	2	3	6	10	13	17	21
-70°	0	0	0	0	2	3	4	7	10	12	15
-72.5°	0	0	0	0	1	2	3	4	6	9	10
-75°	0	0	0	0	0	1	2	3	3	5	6
-77.5°	0	0	0	0	0	1	1	2	2	2	3
-80°	0	0	0	0	0	0	0	1	1	2	2
-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	1	1	1	1	1	1	1	2	2	2
80°	2	2	2	3	3	3	4	4	4	5	5
77.5°	4	5	5	6	6	8	9	10	11	11	12
75°	7	9	10	12	14	15	16	19	21	23	25
72.5°	12	15	18	20	23	26	29	31	35	38	41
70°	19	22	27	31	35	39	44	49	53	57	62
67.5°	26	32	37	43	50	56	62	68	75	80	85
65°	36	42	50	58	66	74	82	90	99	107	114
62.5°	45	54	64	74	84	94	105	116	128	137	145
60°	56	67	79	91	104	117	130	144	157	168	180
57.5°	67	81	96	110	125	141	158	173	191	206	222
55°	80	96	113	131	149	169	188	210	229	257	280
52.5°	93	111	132	153	176	200	226	255	289	325	371
50°	106	129	152	178	205	236	274	316	373	431	508
47.5°	120	145	175	204	240	284	334	410	483	602	717
45°	135	165	197	237	282	341	428	522	673	822	1022
42.5°	151	184	224	270	336	425	533	710	899	1130	1383
40°	167	203	253	318	400	523	704	916	1189	1482	1801
37.5°	183	228	283	363	491	660	894	1176	1505	1878	2206
35°	199	252	323	425	581	824	1114	1446	1834	2247	2616
32.5°	218	276	360	497	704	992	1341	1737	2162	2598	3002
30°	237	306	403	564	830	1174	1582	2014	2474	2913	3313
27.5°	253	336	461	659	954	1342	1797	2283	2757	3206	3599
25°	269	361	514	757	1096	1517	1998	2503	3018	3460	3839
22.5°	286	384	558	845	1224	1685	2181	2697	3216	3689	4059
20°	304	420	614	923	1336	1835	2338	2868	3385	3847	4232
17.5°	321	452	673	1010	1446	1959	2469	3035	3537	3995	4366
15°	334	479	723	1082	1541	2056	2582	3132	3662	4124	4489
12.5°	345	500	762	1141	1617	2134	2671	3226	3757	4216	4576
10°	354	516	793	1186	1672	2193	2736	3297	3827	4282	4643
7.5°	362	530	815	1217	1710	2232	2777	3345	3876	4332	4695
5°	368	542	835	1244	1739	2260	2800	3370	3903	4366	4734
2.5°	373	551	851	1267	1766	2289	2833	3406	3937	4397	4767
0°	373	551	849	1264	1759	2279	2822	3391	3923	4385	4757
-2.5°	373	551	851	1267	1766	2289	2833	3406	3937	4397	4767
-5°	368	542	835	1244	1739	2260	2800	3370	3903	4366	4734
-7.5°	362	530	815	1217	1710	2232	2777	3345	3876	4332	4695
-10°	354	516	793	1186	1672	2193	2736	3297	3827	4282	4643
-12.5°	345	500	762	1141	1617	2134	2671	3226	3757	4216	4576
-15°	334	479	723	1082	1541	2056	2582	3132	3662	4124	4489
-17.5°	321	452	673	1010	1446	1959	2469	3035	3537	3995	4366
-20°	304	420	614	923	1336	1835	2338	2868	3385	3847	4232



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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°	286	384	558	845	1224	1685	2181	2697	3216	3689	4059
-25°	269	361	514	757	1096	1517	1998	2503	3018	3460	3839
-27.5°	253	336	461	659	954	1342	1797	2283	2757	3206	3599
-30°	237	306	403	564	830	1174	1582	2014	2474	2913	3313
-32.5°	218	276	360	497	704	992	1341	1737	2162	2598	3002
-35°	199	252	323	425	581	824	1114	1446	1834	2247	2616
-37.5°	183	228	283	363	491	660	894	1176	1505	1878	2206
-40°	167	203	253	318	400	523	704	916	1189	1482	1801
-42.5°	151	184	224	270	336	425	533	710	899	1130	1383
-45°	135	165	197	237	282	341	428	522	673	822	1022
-47.5°	120	145	175	204	240	284	334	410	483	602	717
-50°	106	129	152	178	205	236	274	316	373	431	508
-52.5°	93	111	132	153	176	200	226	255	289	325	371
-55°	80	96	113	131	149	169	188	210	229	257	280
-57.5°	67	81	96	110	125	141	158	173	191	206	222
-60°	56	67	79	91	104	117	130	144	157	168	180
-62.5°	45	54	64	74	84	94	105	116	128	137	145
-65°	36	42	50	58	66	74	82	90	99	107	114
-67.5°	26	32	37	43	50	56	62	68	75	80	85
-70°	19	22	27	31	35	39	44	49	53	57	62
-72.5°	12	15	18	20	23	26	29	31	35	38	41
-75°	7	9	10	12	14	15	16	19	21	23	25
-77.5°	4	5	5	6	6	8	9	10	11	11	12
-80°	2	2	2	3	3	3	4	4	4	5	5
-82.5°	1	1	1	1	1	1	1	1	2	2	2
-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	1	1	1	1	1	2	2	2
82.5°	2	3	3	3	3	3	3	3	3	3	3
80°	6	6	7	7	7	8	8	8	9	9	9
77.5°	13	14	16	16	17	18	18	19	19	18	18
75°	27	28	30	31	32	33	35	36	36	36	36
72.5°	44	46	48	51	53	55	56	58	58	59	60
70°	65	68	72	75	78	81	84	86	88	89	90
67.5°	91	96	100	104	108	112	116	118	120	122	123
65°	120	126	133	138	143	148	152	157	159	161	163
62.5°	153	161	169	177	184	189	196	202	205	209	211
60°	192	202	213	224	234	241	252	260	264	267	271
57.5°	240	255	269	290	305	315	328	341	348	351	357
55°	308	336	353	388	416	431	443	469	484	488	498
52.5°	411	465	506	544	602	632	641	683	713	725	743
50°	590	666	756	815	892	947	966	1012	1054	1073	1095
47.5°	863	983	1108	1210	1295	1366	1403	1444	1493	1517	1539
45°	1221	1402	1548	1676	1776	1850	1899	1958	1982	2001	2013
42.5°	1646	1864	2035	2169	2269	2350	2399	2418	2462	2478	2477
40°	2083	2347	2523	2661	2762	2844	2887	2904	2929	2939	2925
37.5°	2518	2796	2998	3138	3236	3316	3350	3361	3370	3366	3346
35°	2934	3204	3445	3570	3668	3729	3763	3760	3744	3738	3711
32.5°	3309	3579	3795	3954	4042	4085	4124	4100	4073	4048	4013
30°	3657	3899	4100	4271	4355	4393	4407	4394	4357	4314	4275
27.5°	3922	4178	4371	4515	4622	4657	4660	4652	4610	4558	4511
25°	4155	4410	4594	4724	4822	4881	4883	4874	4836	4783	4724
22.5°	4352	4590	4778	4912	4994	5054	5081	5064	5038	4982	4916
20°	4530	4766	4927	5059	5149	5205	5236	5232	5207	5161	5099
17.5°	4660	4892	5061	5191	5282	5335	5362	5373	5350	5315	5269
15°	4770	4997	5178	5310	5399	5453	5480	5487	5476	5447	5409
12.5°	4857	5089	5276	5419	5514	5567	5595	5600	5590	5566	5532
10°	4931	5169	5361	5507	5610	5676	5714	5726	5706	5675	5640
7.5°	4991	5237	5438	5593	5704	5775	5818	5835	5827	5786	5740
5°	5038	5294	5504	5664	5781	5863	5911	5926	5908	5876	5834
2.5°	5077	5341	5562	5725	5850	5936	5986	5992	5965	5921	5862
0°	5072	5340	5561	5733	5857	5947	5999	6006	5972	5918	5848
-2.5°	5077	5341	5562	5725	5850	5936	5986	5992	5965	5921	5862
-5°	5038	5294	5504	5664	5781	5863	5911	5926	5908	5876	5834
-7.5°	4991	5237	5438	5593	5704	5775	5818	5835	5827	5786	5740
-10°	4931	5169	5361	5507	5610	5676	5714	5726	5706	5675	5640
-12.5°	4857	5089	5276	5419	5514	5567	5595	5600	5590	5566	5532
-15°	4770	4997	5178	5310	5399	5453	5480	5487	5476	5447	5409
-17.5°	4660	4892	5061	5191	5282	5335	5362	5373	5350	5315	5269
-20°	4530	4766	4927	5059	5149	5205	5236	5232	5207	5161	5099



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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°	4352	4590	4778	4912	4994	5054	5081	5064	5038	4982	4916
-25°	4155	4410	4594	4724	4822	4881	4883	4874	4836	4783	4724
-27.5°	3922	4178	4371	4515	4622	4657	4660	4652	4610	4558	4511
-30°	3657	3899	4100	4271	4355	4393	4407	4394	4357	4314	4275
-32.5°	3309	3579	3795	3954	4042	4085	4124	4100	4073	4048	4013
-35°	2934	3204	3445	3570	3668	3729	3763	3760	3744	3738	3711
-37.5°	2518	2796	2998	3138	3236	3316	3350	3361	3370	3366	3346
-40°	2083	2347	2523	2661	2762	2844	2887	2904	2929	2939	2925
-42.5°	1646	1864	2035	2169	2269	2350	2399	2418	2462	2478	2477
-45°	1221	1402	1548	1676	1776	1850	1899	1958	1982	2001	2013
-47.5°	863	983	1108	1210	1295	1366	1403	1444	1493	1517	1539
-50°	590	666	756	815	892	947	966	1012	1054	1073	1095
-52.5°	411	465	506	544	602	632	641	683	713	725	743
-55°	308	336	353	388	416	431	443	469	484	488	498
-57.5°	240	255	269	290	305	315	328	341	348	351	357
-60°	192	202	213	224	234	241	252	260	264	267	271
-62.5°	153	161	169	177	184	189	196	202	205	209	211
-65°	120	126	133	138	143	148	152	157	159	161	163
-67.5°	91	96	100	104	108	112	116	118	120	122	123
-70°	65	68	72	75	78	81	84	86	88	89	90
-72.5°	44	46	48	51	53	55	56	58	58	59	60
-75°	27	28	30	31	32	33	35	36	36	36	36
-77.5°	13	14	16	16	17	18	18	19	19	18	18
-80°	6	6	7	7	7	8	8	8	9	9	9
-82.5°	2	3	3	3	3	3	3	3	3	3	3
-85°	1	1	1	1	1	1	1	1	2	2	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):

	-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°	2	2	2	2	2	2	2	2	2	2	1
82.5°	3	3	3	3	3	3	3	3	3	3	3
80°	9	9	9	8	9	9	9	9	9	9	8
77.5°	18	18	18	18	18	18	18	18	18	19	19
75°	36	36	35	35	35	36	36	36	36	36	36
72.5°	60	61	60	59	60	61	60	60	59	58	58
70°	90	90	90	90	90	90	90	90	89	88	86
67.5°	124	125	125	125	125	125	124	123	122	120	118
65°	164	165	166	165	166	165	164	163	161	159	157
62.5°	212	212	214	214	214	212	212	211	209	205	202
60°	273	274	276	276	276	274	273	271	267	264	260
57.5°	360	359	362	363	362	359	360	357	351	348	341
55°	504	503	508	509	508	503	504	498	488	484	469
52.5°	755	756	765	767	765	756	755	743	725	713	683
50°	1114	1117	1129	1129	1129	1117	1114	1095	1073	1054	1012
47.5°	1564	1568	1582	1581	1582	1568	1564	1539	1517	1493	1444
45°	2042	2052	2069	2066	2069	2052	2042	2013	2001	1982	1958
42.5°	2507	2513	2524	2521	2524	2513	2507	2477	2478	2462	2418
40°	2948	2955	2964	2962	2964	2955	2948	2925	2939	2929	2904
37.5°	3354	3360	3364	3361	3364	3360	3354	3346	3366	3370	3361
35°	3699	3701	3700	3686	3700	3701	3699	3711	3738	3744	3760
32.5°	3980	3976	3967	3953	3967	3976	3980	4013	4048	4073	4100
30°	4223	4216	4199	4186	4199	4216	4223	4275	4314	4357	4394
27.5°	4455	4434	4406	4398	4406	4434	4455	4511	4558	4610	4652
25°	4667	4631	4605	4594	4605	4631	4667	4724	4783	4836	4874
22.5°	4863	4818	4795	4783	4795	4818	4863	4916	4982	5038	5064
20°	5045	4997	4982	4974	4982	4997	5045	5099	5161	5207	5232
17.5°	5209	5171	5160	5156	5160	5171	5209	5269	5315	5350	5373
15°	5357	5322	5307	5313	5307	5322	5357	5409	5447	5476	5487
12.5°	5490	5446	5429	5438	5429	5446	5490	5532	5566	5590	5600
10°	5604	5557	5534	5544	5534	5557	5604	5640	5675	5706	5726
7.5°	5695	5659	5631	5652	5631	5659	5695	5740	5786	5827	5835
5°	5766	5721	5689	5707	5689	5721	5766	5834	5876	5908	5926
2.5°	5797	5758	5718	5716	5718	5758	5797	5862	5921	5965	5992
0°	5768	5704	5669	5708	5669	5704	5768	5848	5918	5972	6006
-2.5°	5797	5758	5718	5716	5718	5758	5797	5862	5921	5965	5992
-5°	5766	5721	5689	5707	5689	5721	5766	5834	5876	5908	5926
-7.5°	5695	5659	5631	5652	5631	5659	5695	5740	5786	5827	5835
-10°	5604	5557	5534	5544	5534	5557	5604	5640	5675	5706	5726
-12.5°	5490	5446	5429	5438	5429	5446	5490	5532	5566	5590	5600
-15°	5357	5322	5307	5313	5307	5322	5357	5409	5447	5476	5487
-17.5°	5209	5171	5160	5156	5160	5171	5209	5269	5315	5350	5373
-20°	5045	4997	4982	4974	4982	4997	5045	5099	5161	5207	5232



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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°	4863	4818	4795	4783	4795	4818	4863	4916	4982	5038	5064
-25°	4667	4631	4605	4594	4605	4631	4667	4724	4783	4836	4874
-27.5°	4455	4434	4406	4398	4406	4434	4455	4511	4558	4610	4652
-30°	4223	4216	4199	4186	4199	4216	4223	4275	4314	4357	4394
-32.5°	3980	3976	3967	3953	3967	3976	3980	4013	4048	4073	4100
-35°	3699	3701	3700	3686	3700	3701	3699	3711	3738	3744	3760
-37.5°	3354	3360	3364	3361	3364	3360	3354	3346	3366	3370	3361
-40°	2948	2955	2964	2962	2964	2955	2948	2925	2939	2929	2904
-42.5°	2507	2513	2524	2521	2524	2513	2507	2477	2478	2462	2418
-45°	2042	2052	2069	2066	2069	2052	2042	2013	2001	1982	1958
-47.5°	1564	1568	1582	1581	1582	1568	1564	1539	1517	1493	1444
-50°	1114	1117	1129	1129	1129	1117	1114	1095	1073	1054	1012
-52.5°	755	756	765	767	765	756	755	743	725	713	683
-55°	504	503	508	509	508	503	504	498	488	484	469
-57.5°	360	359	362	363	362	359	360	357	351	348	341
-60°	273	274	276	276	276	274	273	271	267	264	260
-62.5°	212	212	214	214	214	212	212	211	209	205	202
-65°	164	165	166	165	166	165	164	163	161	159	157
-67.5°	124	125	125	125	125	125	124	123	122	120	118
-70°	90	90	90	90	90	90	90	90	89	88	86
-72.5°	60	61	60	59	60	61	60	60	59	58	58
-75°	36	36	35	35	35	36	36	36	36	36	36
-77.5°	18	18	18	18	18	18	18	18	18	19	19
-80°	9	9	9	8	9	9	9	9	9	9	8
-82.5°	3	3	3	3	3	3	3	3	3	3	3
-85°	2	2	2	2	2	2	2	2	2	2	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):

	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°	1	1	1	1	1	1	1	1	1	1	0
82.5°	3	3	3	3	3	3	2	2	2	2	1
80°	8	8	7	7	7	6	6	5	5	4	4
77.5°	18	18	17	16	16	14	13	12	11	11	10
75°	35	33	32	31	30	28	27	25	23	21	19
72.5°	56	55	53	51	48	46	44	41	38	35	31
70°	84	81	78	75	72	68	65	62	57	53	49
67.5°	116	112	108	104	100	96	91	85	80	75	68
65°	152	148	143	138	133	126	120	114	107	99	90
62.5°	196	189	184	177	169	161	153	145	137	128	116
60°	252	241	234	224	213	202	192	180	168	157	144
57.5°	328	315	305	290	269	255	240	222	206	191	173
55°	443	431	416	388	353	336	308	280	257	229	210
52.5°	641	632	602	544	506	465	411	371	325	289	255
50°	966	947	892	815	756	666	590	508	431	373	316
47.5°	1403	1366	1295	1210	1108	983	863	717	602	483	410
45°	1899	1850	1776	1676	1548	1402	1221	1022	822	673	522
42.5°	2399	2350	2269	2169	2035	1864	1646	1383	1130	899	710
40°	2887	2844	2762	2661	2523	2347	2083	1801	1482	1189	916
37.5°	3350	3316	3236	3138	2998	2796	2518	2206	1878	1505	1176
35°	3763	3729	3668	3570	3445	3204	2934	2616	2247	1834	1446
32.5°	4124	4085	4042	3954	3795	3579	3309	3002	2598	2162	1737
30°	4407	4393	4355	4271	4100	3899	3657	3313	2913	2474	2014
27.5°	4660	4657	4622	4515	4371	4178	3922	3599	3206	2757	2283
25°	4883	4881	4822	4724	4594	4410	4155	3839	3460	3018	2503
22.5°	5081	5054	4994	4912	4778	4590	4352	4059	3689	3216	2697
20°	5236	5205	5149	5059	4927	4766	4530	4232	3847	3385	2868
17.5°	5362	5335	5282	5191	5061	4892	4660	4366	3995	3537	3035
15°	5480	5453	5399	5310	5178	4997	4770	4489	4124	3662	3132
12.5°	5595	5567	5514	5419	5276	5089	4857	4576	4216	3757	3226
10°	5714	5676	5610	5507	5361	5169	4931	4643	4282	3827	3297
7.5°	5818	5775	5704	5593	5438	5237	4991	4695	4332	3876	3345
5°	5911	5863	5781	5664	5504	5294	5038	4734	4366	3903	3370
2.5°	5986	5936	5850	5725	5562	5341	5077	4767	4397	3937	3406
0°	5999	5947	5857	5733	5561	5340	5072	4757	4385	3923	3391
-2.5°	5986	5936	5850	5725	5562	5341	5077	4767	4397	3937	3406
-5°	5911	5863	5781	5664	5504	5294	5038	4734	4366	3903	3370
-7.5°	5818	5775	5704	5593	5438	5237	4991	4695	4332	3876	3345
-10°	5714	5676	5610	5507	5361	5169	4931	4643	4282	3827	3297
-12.5°	5595	5567	5514	5419	5276	5089	4857	4576	4216	3757	3226
-15°	5480	5453	5399	5310	5178	4997	4770	4489	4124	3662	3132
-17.5°	5362	5335	5282	5191	5061	4892	4660	4366	3995	3537	3035
-20°	5236	5205	5149	5059	4927	4766	4530	4232	3847	3385	2868



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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°	5081	5054	4994	4912	4778	4590	4352	4059	3689	3216	2697
-25°	4883	4881	4822	4724	4594	4410	4155	3839	3460	3018	2503
-27.5°	4660	4657	4622	4515	4371	4178	3922	3599	3206	2757	2283
-30°	4407	4393	4355	4271	4100	3899	3657	3313	2913	2474	2014
-32.5°	4124	4085	4042	3954	3795	3579	3309	3002	2598	2162	1737
-35°	3763	3729	3668	3570	3445	3204	2934	2616	2247	1834	1446
-37.5°	3350	3316	3236	3138	2998	2796	2518	2206	1878	1505	1176
-40°	2887	2844	2762	2661	2523	2347	2083	1801	1482	1189	916
-42.5°	2399	2350	2269	2169	2035	1864	1646	1383	1130	899	710
-45°	1899	1850	1776	1676	1548	1402	1221	1022	822	673	522
-47.5°	1403	1366	1295	1210	1108	983	863	717	602	483	410
-50°	966	947	892	815	756	666	590	508	431	373	316
-52.5°	641	632	602	544	506	465	411	371	325	289	255
-55°	443	431	416	388	353	336	308	280	257	229	210
-57.5°	328	315	305	290	269	255	240	222	206	191	173
-60°	252	241	234	224	213	202	192	180	168	157	144
-62.5°	196	189	184	177	169	161	153	145	137	128	116
-65°	152	148	143	138	133	126	120	114	107	99	90
-67.5°	116	112	108	104	100	96	91	85	80	75	68
-70°	84	81	78	75	72	68	65	62	57	53	49
-72.5°	56	55	53	51	48	46	44	41	38	35	31
-75°	35	33	32	31	30	28	27	25	23	21	19
-77.5°	18	18	17	16	16	14	13	12	11	11	10
-80°	8	8	7	7	7	6	6	5	5	4	4
-82.5°	3	3	3	3	3	3	2	2	2	2	1
-85°	1	1	1	1	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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 CATALOG NUMBER: NHRS50UBZ750_50

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	1	1	1	1	1	0	0
80°	4	3	3	3	2	2	2	2	2	1	1
77.5°	9	8	6	6	5	5	4	3	2	2	2
75°	16	15	14	12	10	9	7	6	5	3	3
72.5°	29	26	23	20	18	15	12	10	9	6	4
70°	44	39	35	31	27	22	19	15	12	10	7
67.5°	62	56	50	43	37	32	26	21	17	13	10
65°	82	74	66	58	50	42	36	28	22	18	13
62.5°	105	94	84	74	64	54	45	37	28	22	16
60°	130	117	104	91	79	67	56	45	36	27	20
57.5°	158	141	125	110	96	81	67	54	42	32	24
55°	188	169	149	131	113	96	80	65	50	39	28
52.5°	226	200	176	153	132	111	93	76	59	45	32
50°	274	236	205	178	152	129	106	87	68	52	38
47.5°	334	284	240	204	175	145	120	98	78	59	42
45°	428	341	282	237	197	165	135	109	87	66	47
42.5°	533	425	336	270	224	184	151	122	97	73	52
40°	704	523	400	318	253	203	167	134	106	80	57
37.5°	894	660	491	363	283	228	183	146	115	87	63
35°	1114	824	581	425	323	252	199	158	124	94	67
32.5°	1341	992	704	497	360	276	218	171	133	101	72
30°	1582	1174	830	564	403	306	237	183	141	107	76
27.5°	1797	1342	954	659	461	336	253	194	149	113	81
25°	1998	1517	1096	757	514	361	269	204	157	119	86
22.5°	2181	1685	1224	845	558	384	286	217	165	125	90
20°	2338	1835	1336	923	614	420	304	228	172	130	94
17.5°	2469	1959	1446	1010	673	452	321	238	178	134	97
15°	2582	2056	1541	1082	723	479	334	246	184	137	100
12.5°	2671	2134	1617	1141	762	500	345	253	188	141	103
10°	2736	2193	1672	1186	793	516	354	259	192	143	105
7.5°	2777	2232	1710	1217	815	530	362	264	196	145	106
5°	2800	2260	1739	1244	835	542	368	268	200	149	108
2.5°	2833	2289	1766	1267	851	551	373	271	201	149	108
0°	2822	2279	1759	1264	849	551	373	271	201	149	108
-2.5°	2833	2289	1766	1267	851	551	373	271	201	149	108
-5°	2800	2260	1739	1244	835	542	368	268	200	149	108
-7.5°	2777	2232	1710	1217	815	530	362	264	196	145	106
-10°	2736	2193	1672	1186	793	516	354	259	192	143	105
-12.5°	2671	2134	1617	1141	762	500	345	253	188	141	103
-15°	2582	2056	1541	1082	723	479	334	246	184	137	100
-17.5°	2469	1959	1446	1010	673	452	321	238	178	134	97
-20°	2338	1835	1336	923	614	420	304	228	172	130	94



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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°	2181	1685	1224	845	558	384	286	217	165	125	90
-25°	1998	1517	1096	757	514	361	269	204	157	119	86
-27.5°	1797	1342	954	659	461	336	253	194	149	113	81
-30°	1582	1174	830	564	403	306	237	183	141	107	76
-32.5°	1341	992	704	497	360	276	218	171	133	101	72
-35°	1114	824	581	425	323	252	199	158	124	94	67
-37.5°	894	660	491	363	283	228	183	146	115	87	63
-40°	704	523	400	318	253	203	167	134	106	80	57
-42.5°	533	425	336	270	224	184	151	122	97	73	52
-45°	428	341	282	237	197	165	135	109	87	66	47
-47.5°	334	284	240	204	175	145	120	98	78	59	42
-50°	274	236	205	178	152	129	106	87	68	52	38
-52.5°	226	200	176	153	132	111	93	76	59	45	32
-55°	188	169	149	131	113	96	80	65	50	39	28
-57.5°	158	141	125	110	96	81	67	54	42	32	24
-60°	130	117	104	91	79	67	56	45	36	27	20
-62.5°	105	94	84	74	64	54	45	37	28	22	16
-65°	82	74	66	58	50	42	36	28	22	18	13
-67.5°	62	56	50	43	37	32	26	21	17	13	10
-70°	44	39	35	31	27	22	19	15	12	10	7
-72.5°	29	26	23	20	18	15	12	10	9	6	4
-75°	16	15	14	12	10	9	7	6	5	3	3
-77.5°	9	8	6	6	5	5	4	3	2	2	2
-80°	4	3	3	3	2	2	2	2	2	1	1
-82.5°	1	1	1	1	1	1	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°	1	1	0	0	0	0	0
75°	2	1	0	0	0	0	0
72.5°	3	2	1	0	0	0	0
70°	4	3	2	0	0	0	0
67.5°	6	3	2	1	0	0	0
65°	9	5	3	1	0	0	0
62.5°	11	7	3	2	0	0	0
60°	14	9	4	2	0	0	0
57.5°	16	11	5	2	1	0	0
55°	20	13	7	3	1	0	0
52.5°	22	14	8	3	1	0	0
50°	26	16	10	3	1	0	0
47.5°	28	19	11	4	1	0	0
45°	32	21	12	5	2	0	0
42.5°	36	23	14	6	2	0	0
40°	39	25	15	7	2	0	0
37.5°	42	27	16	7	2	0	0
35°	46	29	18	9	2	0	0
32.5°	49	31	19	9	2	0	0
30°	52	33	20	10	3	0	0
27.5°	55	36	21	11	3	0	0
25°	58	37	22	11	3	0	0
22.5°	61	39	23	12	3	0	0
20°	63	40	23	12	3	0	0
17.5°	65	41	24	13	3	0	0
15°	67	43	24	13	3	0	0
12.5°	68	44	25	13	3	0	0
10°	70	44	26	13	3	0	0
7.5°	71	45	26	14	3	0	0
5°	72	46	26	14	3	0	0
2.5°	72	45	26	14	3	0	0
0°	72	45	26	14	3	0	0
-2.5°	72	45	26	14	3	0	0
-5°	72	46	26	14	3	0	0
-7.5°	71	45	26	14	3	0	0
-10°	70	44	26	13	3	0	0
-12.5°	68	44	25	13	3	0	0
-15°	67	43	24	13	3	0	0
-17.5°	65	41	24	13	3	0	0
-20°	63	40	23	12	3	0	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	61	39	23	12	3	0	0
-25°	58	37	22	11	3	0	0
-27.5°	55	36	21	11	3	0	0
-30°	52	33	20	10	3	0	0
-32.5°	49	31	19	9	2	0	0
-35°	46	29	18	9	2	0	0
-37.5°	42	27	16	7	2	0	0
-40°	39	25	15	7	2	0	0
-42.5°	36	23	14	6	2	0	0
-45°	32	21	12	5	2	0	0
-47.5°	28	19	11	4	1	0	0
-50°	26	16	10	3	1	0	0
-52.5°	22	14	8	3	1	0	0
-55°	20	13	7	3	1	0	0
-57.5°	16	11	5	2	1	0	0
-60°	14	9	4	2	0	0	0
-62.5°	11	7	3	2	0	0	0
-65°	9	5	3	1	0	0	0
-67.5°	6	3	2	1	0	0	0
-70°	4	3	2	0	0	0	0
-72.5°	3	2	1	0	0	0	0
-75°	2	1	0	0	0	0	0
-77.5°	1	1	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)