

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: P731767

Luminaire Tested: **NHRS50UBZ730_50**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731767
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ730_50
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 3000K @ 50% output
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

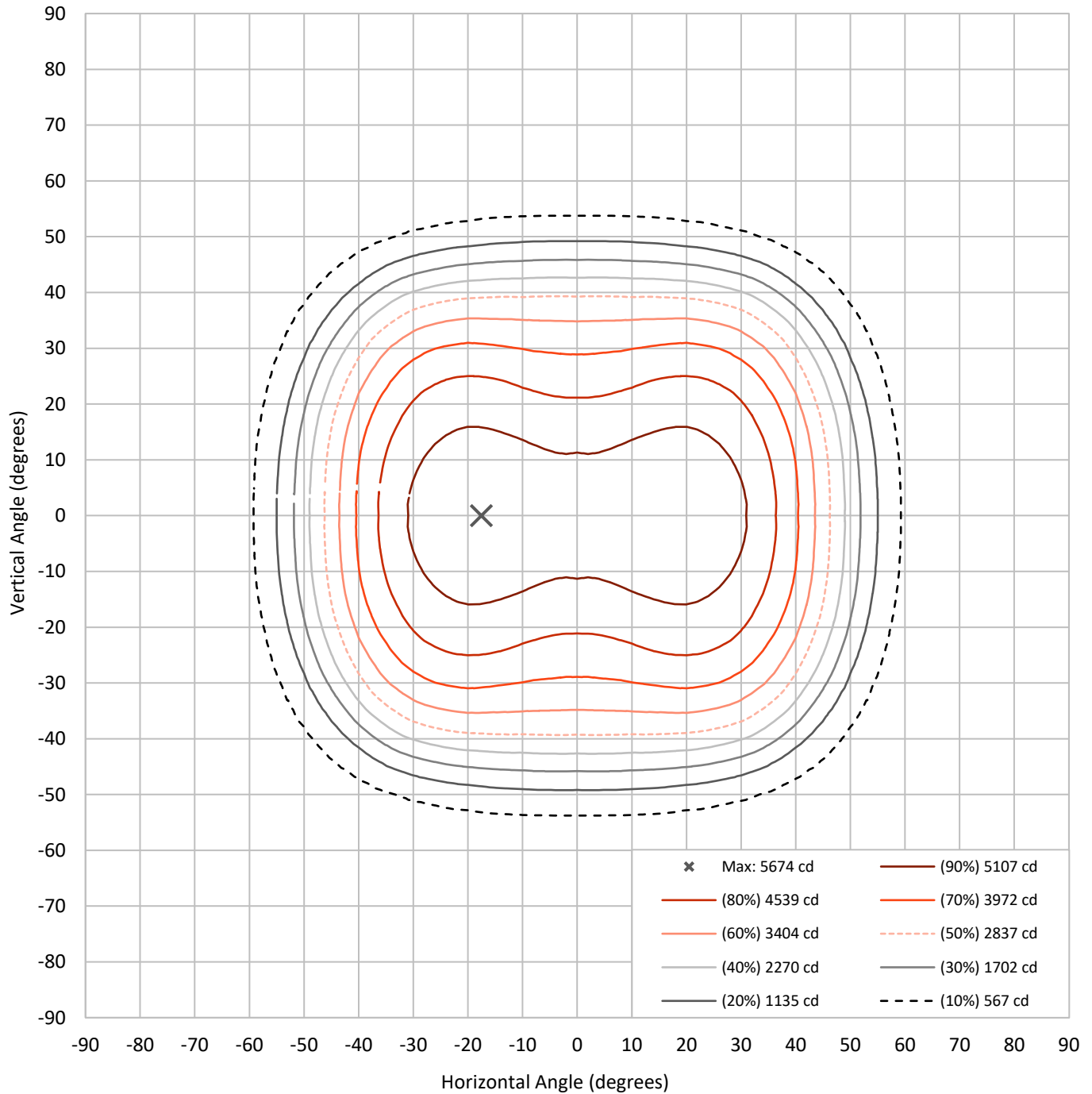
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	10115 lumens	Max Intensity:	5674 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	131.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.5' x H: 0')		
Beam Angle (50%):	92.5°H x 78.1°V	Field Angle (10%):	118.5°H x 106.2°V
Beam Lumens:	8054.3 lumens	Field Lumens:	9727.5 lumens
Beam Efficiency:	79.6%	Field Efficiency:	96.2%
Input Watts (W):	77.1		
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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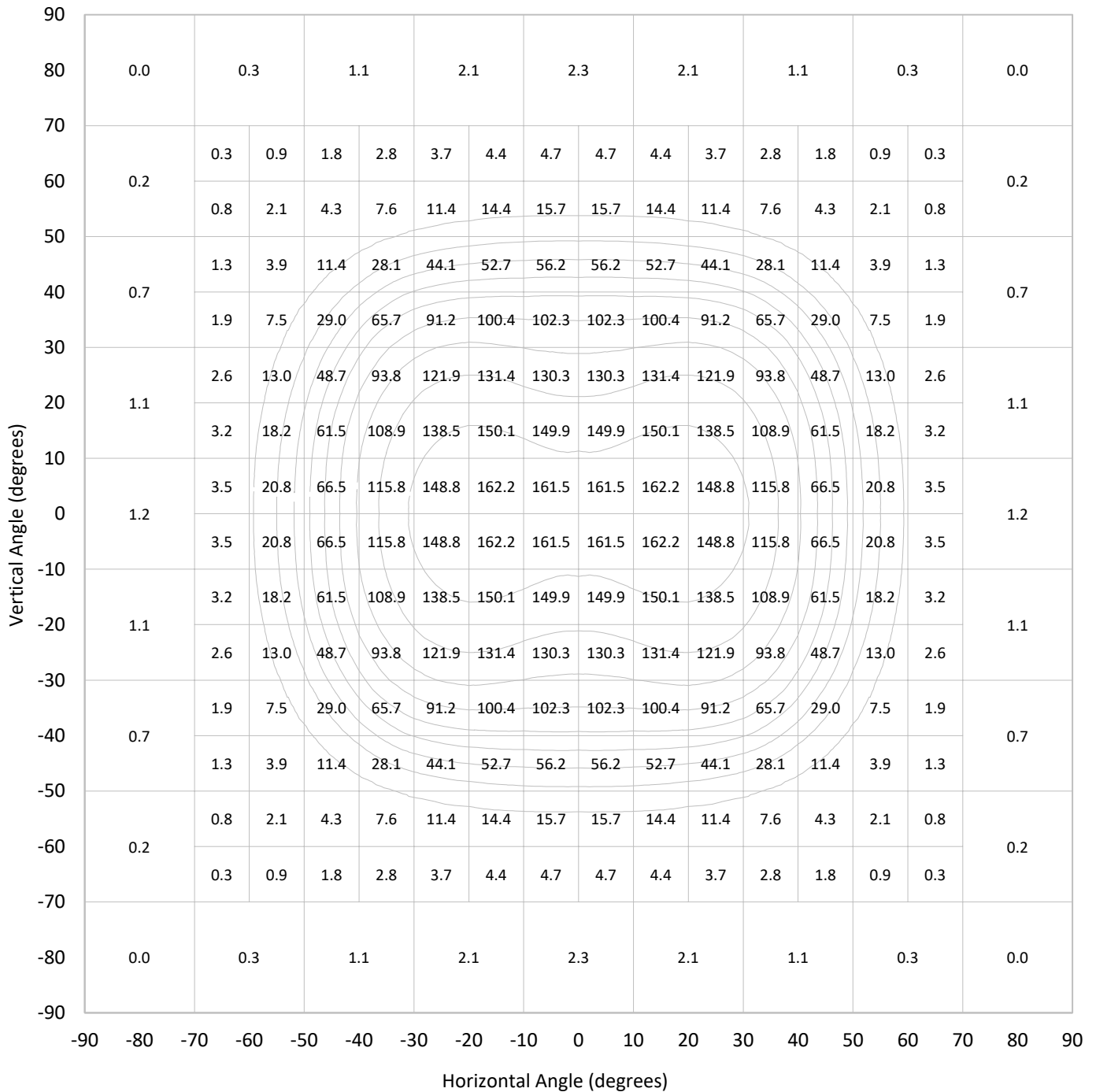
Iso-Candela Plot





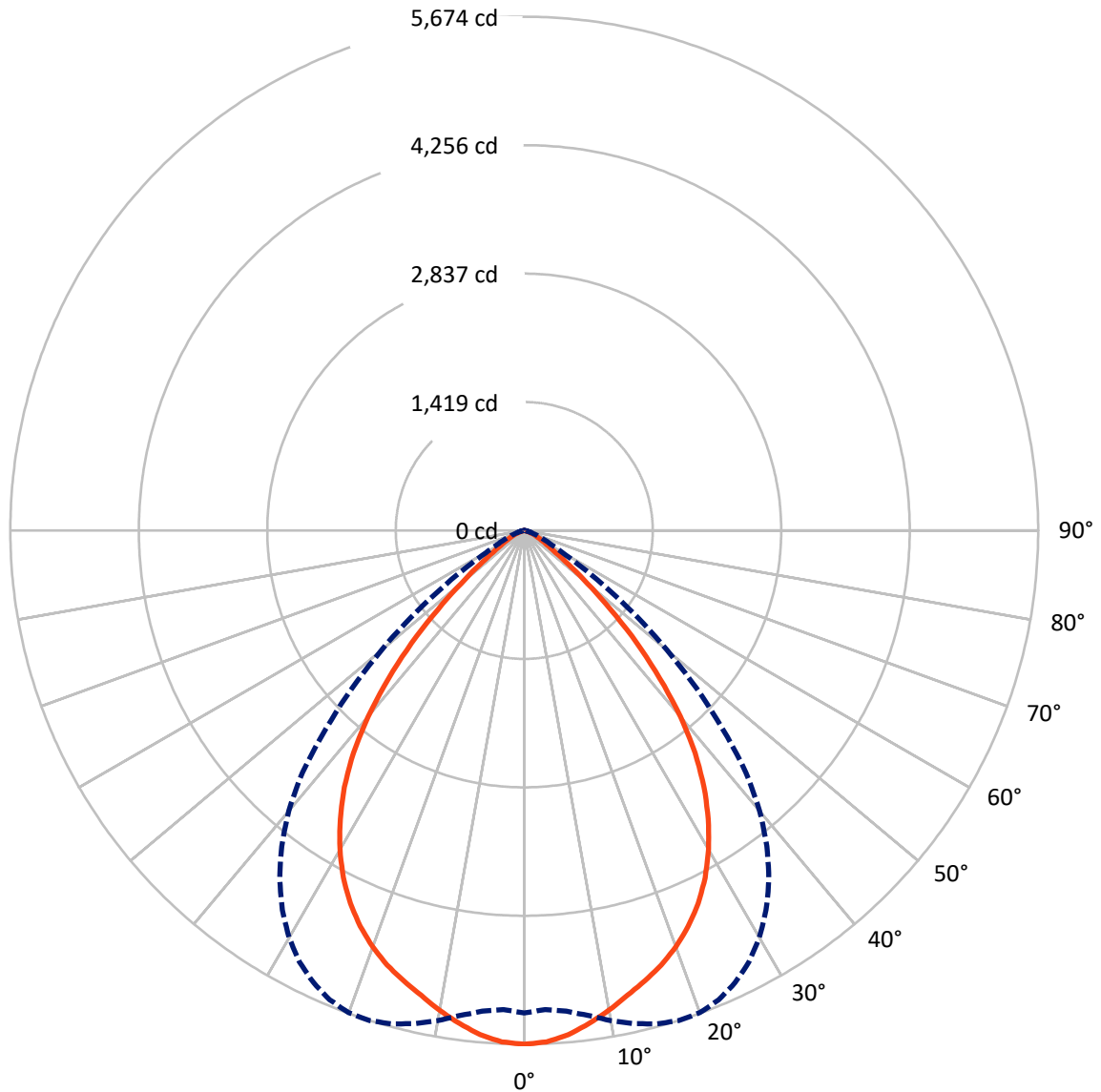
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Lumen Table



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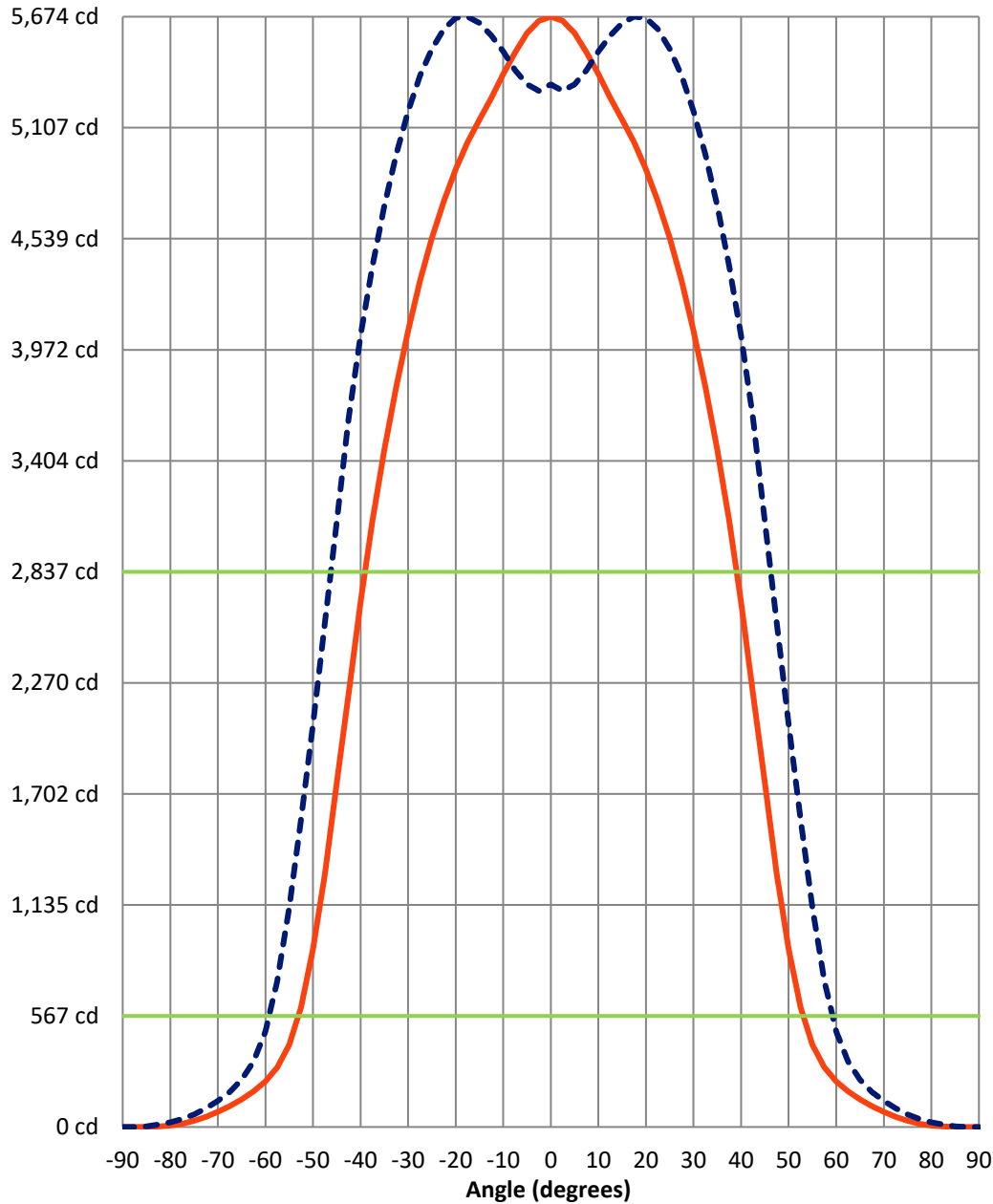
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 92.5°
 V Angle: 78.1°
 Lumens: 8054.3
 Efficiency: 79.6%

Field:
 H Angle: 118.5°
 V Angle: 106.2°
 Lumens: 9727.5
 Efficiency: 96.2%

Spill:
 Lumens: 387.5
 Efficiency: 3.8%

— 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	1	1
77.5°	0	0	0	0	0	0	1	1	2	2	3
75°	0	0	0	0	0	1	2	2	3	4	6
72.5°	0	0	0	0	1	2	2	3	5	7	9
70°	0	0	0	0	1	2	3	6	8	11	14
67.5°	0	0	0	1	2	3	5	9	11	15	19
65°	0	0	0	1	2	4	7	11	15	20	25
62.5°	0	0	0	1	3	5	10	14	19	25	32
60°	0	0	0	2	3	7	12	18	23	31	40
57.5°	0	0	0	2	4	9	14	21	29	38	49
55°	0	0	1	2	6	11	17	24	34	45	58
52.5°	0	0	1	3	7	12	20	29	40	53	68
50°	0	0	1	3	8	14	22	33	46	61	77
47.5°	0	0	1	3	10	16	25	37	52	68	87
45°	0	0	1	4	11	18	28	41	58	76	97
42.5°	0	0	2	5	12	20	31	46	64	85	108
40°	0	0	2	6	13	22	35	51	70	93	118
37.5°	0	0	2	6	14	23	38	56	77	101	129
35°	0	0	2	7	15	26	40	60	83	109	140
32.5°	0	0	2	8	16	28	43	64	89	117	151
30°	0	0	2	9	18	30	46	68	94	125	162
27.5°	0	0	3	9	19	31	49	73	100	132	172
25°	0	0	3	10	20	33	52	77	106	140	182
22.5°	0	0	3	10	20	35	55	81	111	148	193
20°	0	0	3	11	21	36	57	84	116	154	204
17.5°	0	0	3	11	22	37	59	87	120	161	213
15°	0	0	3	12	22	38	61	90	124	166	221
12.5°	0	0	3	12	23	39	62	92	127	170	228
10°	0	0	3	12	23	40	63	93	130	174	234
7.5°	0	0	3	13	24	40	64	94	132	176	237
5°	0	0	3	13	24	41	65	96	134	180	240
2.5°	0	0	3	13	24	41	64	96	134	179	243
0°	0	0	3	13	24	41	64	96	134	179	242
-2.5°	0	0	3	13	24	41	64	96	134	179	243
-5°	0	0	3	13	24	41	65	96	134	180	240
-7.5°	0	0	3	13	24	40	64	94	132	176	237
-10°	0	0	3	12	23	40	63	93	130	174	234
-12.5°	0	0	3	12	23	39	62	92	127	170	228
-15°	0	0	3	12	22	38	61	90	124	166	221
-17.5°	0	0	3	11	22	37	59	87	120	161	213
-20°	0	0	3	11	21	36	57	84	116	154	204



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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	10	20	35	55	81	111	148	193
-25°	0	0	3	10	20	33	52	77	106	140	182
-27.5°	0	0	3	9	19	31	49	73	100	132	172
-30°	0	0	2	9	18	30	46	68	94	125	162
-32.5°	0	0	2	8	16	28	43	64	89	117	151
-35°	0	0	2	7	15	26	40	60	83	109	140
-37.5°	0	0	2	6	14	23	38	56	77	101	129
-40°	0	0	2	6	13	22	35	51	70	93	118
-42.5°	0	0	2	5	12	20	31	46	64	85	108
-45°	0	0	1	4	11	18	28	41	58	76	97
-47.5°	0	0	1	3	10	16	25	37	52	68	87
-50°	0	0	1	3	8	14	22	33	46	61	77
-52.5°	0	0	1	3	7	12	20	29	40	53	68
-55°	0	0	1	2	6	11	17	24	34	45	58
-57.5°	0	0	0	2	4	9	14	21	29	38	49
-60°	0	0	0	2	3	7	12	18	23	31	40
-62.5°	0	0	0	1	3	5	10	14	19	25	32
-65°	0	0	0	1	2	4	7	11	15	20	25
-67.5°	0	0	0	1	2	3	5	9	11	15	19
-70°	0	0	0	0	1	2	3	6	8	11	14
-72.5°	0	0	0	0	1	2	2	3	5	7	9
-75°	0	0	0	0	0	1	2	2	3	4	6
-77.5°	0	0	0	0	0	0	1	1	2	2	3
-80°	0	0	0	0	0	0	0	1	1	1	1
-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	1	2	2
80°	1	2	2	3	3	3	3	3	3	4	4
77.5°	4	5	5	5	6	7	8	9	9	10	10
75°	7	8	10	11	12	13	14	16	19	20	22
72.5°	12	14	16	18	21	23	26	29	31	35	38
70°	17	20	24	28	31	36	40	44	48	52	56
67.5°	23	29	33	39	45	50	56	62	68	73	78
65°	32	38	45	53	60	67	75	82	90	97	104
62.5°	40	49	58	66	76	85	96	106	116	124	132
60°	50	61	72	83	94	107	118	130	141	151	163
57.5°	61	74	87	100	114	128	143	156	172	186	200
55°	72	88	102	119	135	152	169	189	206	231	252
52.5°	84	101	120	139	158	179	203	230	261	292	332
50°	95	116	137	160	185	212	248	286	336	386	453
47.5°	108	131	158	184	215	255	302	370	434	537	636
45°	121	148	177	213	254	307	385	469	602	734	911
42.5°	135	165	201	241	301	380	477	637	806	1012	1240
40°	148	181	225	283	357	466	627	818	1071	1334	1625
37.5°	162	202	252	323	436	585	791	1049	1354	1694	2003
35°	176	223	286	376	514	726	984	1289	1652	2039	2389
32.5°	192	244	319	439	620	871	1182	1557	1953	2363	2760
30°	209	270	357	497	728	1032	1403	1814	2238	2656	3042
27.5°	223	296	406	578	835	1182	1607	2058	2495	2921	3299
25°	237	319	452	662	963	1345	1792	2261	2727	3152	3518
22.5°	254	341	491	738	1079	1498	1964	2445	2920	3367	3722
20°	271	374	541	807	1183	1632	2116	2609	3089	3524	3888
17.5°	287	403	593	887	1282	1748	2248	2773	3239	3674	4021
15°	300	427	637	955	1369	1845	2353	2870	3364	3804	4143
12.5°	311	447	673	1009	1438	1922	2435	2955	3457	3895	4235
10°	320	463	700	1050	1490	1978	2496	3020	3525	3955	4300
7.5°	327	475	720	1079	1527	2014	2535	3061	3572	4002	4350
5°	332	484	736	1104	1554	2039	2557	3082	3598	4033	4386
2.5°	335	490	750	1124	1580	2066	2588	3110	3633	4059	4413
0°	334	489	748	1121	1574	2058	2576	3093	3623	4043	4399
-2.5°	335	490	750	1124	1580	2066	2588	3110	3633	4059	4413
-5°	332	484	736	1104	1554	2039	2557	3082	3598	4033	4386
-7.5°	327	475	720	1079	1527	2014	2535	3061	3572	4002	4350
-10°	320	463	700	1050	1490	1978	2496	3020	3525	3955	4300
-12.5°	311	447	673	1009	1438	1922	2435	2955	3457	3895	4235
-15°	300	427	637	955	1369	1845	2353	2870	3364	3804	4143
-17.5°	287	403	593	887	1282	1748	2248	2773	3239	3674	4021
-20°	271	374	541	807	1183	1632	2116	2609	3089	3524	3888



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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°	254	341	491	738	1079	1498	1964	2445	2920	3367	3722
-25°	237	319	452	662	963	1345	1792	2261	2727	3152	3518
-27.5°	223	296	406	578	835	1182	1607	2058	2495	2921	3299
-30°	209	270	357	497	728	1032	1403	1814	2238	2656	3042
-32.5°	192	244	319	439	620	871	1182	1557	1953	2363	2760
-35°	176	223	286	376	514	726	984	1289	1652	2039	2389
-37.5°	162	202	252	323	436	585	791	1049	1354	1694	2003
-40°	148	181	225	283	357	466	627	818	1071	1334	1625
-42.5°	135	165	201	241	301	380	477	637	806	1012	1240
-45°	121	148	177	213	254	307	385	469	602	734	911
-47.5°	108	131	158	184	215	255	302	370	434	537	636
-50°	95	116	137	160	185	212	248	286	336	386	453
-52.5°	84	101	120	139	158	179	203	230	261	292	332
-55°	72	88	102	119	135	152	169	189	206	231	252
-57.5°	61	74	87	100	114	128	143	156	172	186	200
-60°	50	61	72	83	94	107	118	130	141	151	163
-62.5°	40	49	58	66	76	85	96	106	116	124	132
-65°	32	38	45	53	60	67	75	82	90	97	104
-67.5°	23	29	33	39	45	50	56	62	68	73	78
-70°	17	20	24	28	31	36	40	44	48	52	56
-72.5°	12	14	16	18	21	23	26	29	31	35	38
-75°	7	8	10	11	12	13	14	16	19	20	22
-77.5°	4	5	5	5	6	7	8	9	9	10	10
-80°	1	2	2	3	3	3	3	3	3	4	4
-82.5°	1	1	1	1	1	1	1	1	1	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	1	1	1
82.5°	2	2	2	3	3	3	3	3	3	3	3
80°	5	5	6	6	7	7	7	7	7	7	7
77.5°	11	12	14	14	15	16	16	16	16	16	16
75°	23	25	27	28	29	30	31	32	32	33	32
72.5°	40	42	44	46	48	50	51	52	53	53	54
70°	59	63	66	68	72	74	76	78	79	80	80
67.5°	82	87	91	94	98	101	104	107	108	110	111
65°	109	115	120	125	129	133	137	141	143	145	147
62.5°	139	146	154	161	166	171	177	182	185	187	190
60°	174	184	193	203	211	217	226	233	237	240	244
57.5°	217	229	241	259	272	281	293	305	312	315	321
55°	276	300	314	344	370	384	396	420	434	438	447
52.5°	366	413	447	482	534	564	574	613	640	651	667
50°	523	589	668	721	792	844	868	909	947	964	984
47.5°	765	871	982	1065	1145	1217	1255	1292	1338	1359	1378
45°	1088	1253	1380	1490	1580	1659	1708	1759	1787	1807	1818
42.5°	1482	1684	1835	1957	2059	2139	2190	2216	2257	2272	2272
40°	1890	2139	2300	2432	2533	2616	2658	2682	2708	2717	2710
37.5°	2298	2558	2744	2878	2972	3047	3085	3098	3107	3109	3095
35°	2692	2938	3156	3273	3365	3428	3464	3460	3439	3441	3422
32.5°	3042	3285	3480	3622	3707	3759	3804	3781	3754	3734	3708
30°	3364	3582	3763	3913	4000	4050	4078	4068	4033	3993	3962
27.5°	3605	3844	4020	4156	4260	4309	4325	4324	4283	4230	4189
25°	3819	4064	4245	4372	4471	4533	4545	4543	4507	4451	4392
22.5°	4004	4237	4429	4569	4652	4712	4740	4730	4706	4644	4571
20°	4171	4406	4574	4716	4813	4869	4899	4894	4866	4814	4745
17.5°	4300	4526	4702	4842	4946	5007	5030	5033	5003	4961	4905
15°	4414	4634	4815	4953	5055	5121	5152	5148	5124	5086	5039
12.5°	4506	4730	4917	5060	5164	5230	5261	5259	5237	5201	5158
10°	4580	4814	5004	5152	5264	5339	5377	5381	5354	5314	5269
7.5°	4637	4880	5080	5239	5361	5441	5482	5491	5471	5425	5373
5°	4682	4934	5142	5310	5436	5527	5579	5590	5561	5515	5460
2.5°	4717	4977	5197	5368	5501	5597	5647	5653	5621	5567	5502
0°	4707	4969	5191	5372	5509	5610	5668	5674	5642	5577	5496
-2.5°	4717	4977	5197	5368	5501	5597	5647	5653	5621	5567	5502
-5°	4682	4934	5142	5310	5436	5527	5579	5590	5561	5515	5460
-7.5°	4637	4880	5080	5239	5361	5441	5482	5491	5471	5425	5373
-10°	4580	4814	5004	5152	5264	5339	5377	5381	5354	5314	5269
-12.5°	4506	4730	4917	5060	5164	5230	5261	5259	5237	5201	5158
-15°	4414	4634	4815	4953	5055	5121	5152	5148	5124	5086	5039
-17.5°	4300	4526	4702	4842	4946	5007	5030	5033	5003	4961	4905
-20°	4171	4406	4574	4716	4813	4869	4899	4894	4866	4814	4745



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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°	4004	4237	4429	4569	4652	4712	4740	4730	4706	4644	4571
-25°	3819	4064	4245	4372	4471	4533	4545	4543	4507	4451	4392
-27.5°	3605	3844	4020	4156	4260	4309	4325	4324	4283	4230	4189
-30°	3364	3582	3763	3913	4000	4050	4078	4068	4033	3993	3962
-32.5°	3042	3285	3480	3622	3707	3759	3804	3781	3754	3734	3708
-35°	2692	2938	3156	3273	3365	3428	3464	3460	3439	3441	3422
-37.5°	2298	2558	2744	2878	2972	3047	3085	3098	3107	3109	3095
-40°	1890	2139	2300	2432	2533	2616	2658	2682	2708	2717	2710
-42.5°	1482	1684	1835	1957	2059	2139	2190	2216	2257	2272	2272
-45°	1088	1253	1380	1490	1580	1659	1708	1759	1787	1807	1818
-47.5°	765	871	982	1065	1145	1217	1255	1292	1338	1359	1378
-50°	523	589	668	721	792	844	868	909	947	964	984
-52.5°	366	413	447	482	534	564	574	613	640	651	667
-55°	276	300	314	344	370	384	396	420	434	438	447
-57.5°	217	229	241	259	272	281	293	305	312	315	321
-60°	174	184	193	203	211	217	226	233	237	240	244
-62.5°	139	146	154	161	166	171	177	182	185	187	190
-65°	109	115	120	125	129	133	137	141	143	145	147
-67.5°	82	87	91	94	98	101	104	107	108	110	111
-70°	59	63	66	68	72	74	76	78	79	80	80
-72.5°	40	42	44	46	48	50	51	52	53	53	54
-75°	23	25	27	28	29	30	31	32	32	33	32
-77.5°	11	12	14	14	15	16	16	16	16	16	16
-80°	5	5	6	6	7	7	7	7	7	7	7
-82.5°	2	2	2	3	3	3	3	3	3	3	3
-85°	1	1	1	1	1	1	1	1	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):

	-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	1	2	2	2	1	1	1	1
82.5°	3	3	3	3	3	3	3	3	3	3	3
80°	7	7	7	7	7	7	7	7	7	7	7
77.5°	16	16	16	16	16	16	16	16	16	16	16
75°	32	32	32	31	32	32	32	32	33	32	32
72.5°	54	54	54	54	54	54	54	54	53	53	52
70°	81	81	81	81	81	81	81	80	80	79	78
67.5°	112	113	113	112	113	113	112	111	110	108	107
65°	148	148	149	148	149	148	148	147	145	143	141
62.5°	192	192	193	193	193	192	192	190	187	185	182
60°	246	246	247	247	247	246	246	244	240	237	233
57.5°	323	323	325	324	325	323	323	321	315	312	305
55°	451	450	453	451	453	450	451	447	438	434	420
52.5°	677	678	682	678	682	678	677	667	651	640	613
50°	1001	1004	1011	1004	1011	1004	1001	984	964	947	909
47.5°	1401	1406	1415	1406	1415	1406	1401	1378	1359	1338	1292
45°	1844	1850	1857	1845	1857	1850	1844	1818	1807	1787	1759
42.5°	2299	2302	2308	2294	2308	2302	2299	2272	2272	2257	2216
40°	2731	2736	2742	2728	2742	2736	2731	2710	2717	2708	2682
37.5°	3101	3104	3105	3093	3105	3104	3101	3095	3109	3107	3098
35°	3410	3405	3397	3391	3397	3405	3410	3422	3441	3439	3460
32.5°	3680	3672	3658	3653	3658	3672	3680	3708	3734	3754	3781
30°	3919	3907	3888	3883	3888	3907	3919	3962	3993	4033	4068
27.5°	4139	4115	4084	4086	4084	4115	4139	4189	4230	4283	4324
25°	4339	4301	4269	4267	4269	4301	4339	4392	4451	4507	4543
22.5°	4520	4474	4447	4443	4447	4474	4520	4571	4644	4706	4730
20°	4688	4639	4621	4619	4621	4639	4688	4745	4814	4866	4894
17.5°	4840	4800	4787	4781	4787	4800	4840	4905	4961	5003	5033
15°	4982	4941	4929	4930	4929	4941	4982	5039	5086	5124	5148
12.5°	5109	5062	5044	5054	5044	5062	5109	5158	5201	5237	5259
10°	5225	5175	5146	5165	5146	5175	5225	5269	5314	5354	5381
7.5°	5319	5278	5246	5265	5246	5278	5319	5373	5425	5471	5491
5°	5391	5338	5308	5321	5308	5338	5391	5460	5515	5561	5590
2.5°	5424	5373	5335	5333	5335	5373	5424	5502	5567	5621	5653
0°	5401	5329	5295	5328	5295	5329	5401	5496	5577	5642	5674
-2.5°	5424	5373	5335	5333	5335	5373	5424	5502	5567	5621	5653
-5°	5391	5338	5308	5321	5308	5338	5391	5460	5515	5561	5590
-7.5°	5319	5278	5246	5265	5246	5278	5319	5373	5425	5471	5491
-10°	5225	5175	5146	5165	5146	5175	5225	5269	5314	5354	5381
-12.5°	5109	5062	5044	5054	5044	5062	5109	5158	5201	5237	5259
-15°	4982	4941	4929	4930	4929	4941	4982	5039	5086	5124	5148
-17.5°	4840	4800	4787	4781	4787	4800	4840	4905	4961	5003	5033
-20°	4688	4639	4621	4619	4621	4639	4688	4745	4814	4866	4894



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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°	4520	4474	4447	4443	4447	4474	4520	4571	4644	4706	4730
-25°	4339	4301	4269	4267	4269	4301	4339	4392	4451	4507	4543
-27.5°	4139	4115	4084	4086	4084	4115	4139	4189	4230	4283	4324
-30°	3919	3907	3888	3883	3888	3907	3919	3962	3993	4033	4068
-32.5°	3680	3672	3658	3653	3658	3672	3680	3708	3734	3754	3781
-35°	3410	3405	3397	3391	3397	3405	3410	3422	3441	3439	3460
-37.5°	3101	3104	3105	3093	3105	3104	3101	3095	3109	3107	3098
-40°	2731	2736	2742	2728	2742	2736	2731	2710	2717	2708	2682
-42.5°	2299	2302	2308	2294	2308	2302	2299	2272	2272	2257	2216
-45°	1844	1850	1857	1845	1857	1850	1844	1818	1807	1787	1759
-47.5°	1401	1406	1415	1406	1415	1406	1401	1378	1359	1338	1292
-50°	1001	1004	1011	1004	1011	1004	1001	984	964	947	909
-52.5°	677	678	682	678	682	678	677	667	651	640	613
-55°	451	450	453	451	453	450	451	447	438	434	420
-57.5°	323	323	325	324	325	323	323	321	315	312	305
-60°	246	246	247	247	247	246	246	244	240	237	233
-62.5°	192	192	193	193	193	192	192	190	187	185	182
-65°	148	148	149	148	149	148	148	147	145	143	141
-67.5°	112	113	113	112	113	113	112	111	110	108	107
-70°	81	81	81	81	81	81	81	80	80	79	78
-72.5°	54	54	54	54	54	54	54	54	53	53	52
-75°	32	32	32	31	32	32	32	32	33	32	32
-77.5°	16	16	16	16	16	16	16	16	16	16	16
-80°	7	7	7	7	7	7	7	7	7	7	7
-82.5°	3	3	3	3	3	3	3	3	3	3	3
-85°	2	2	2	1	2	2	2	1	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



REPORT NUMBER: P731767
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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	2	2	2	2	2	1	1
80°	7	7	7	6	6	5	5	4	4	3	3
77.5°	16	16	15	14	14	12	11	10	10	9	9
75°	31	30	29	28	27	25	23	22	20	19	16
72.5°	51	50	48	46	44	42	40	38	35	31	29
70°	76	74	72	68	66	63	59	56	52	48	44
67.5°	104	101	98	94	91	87	82	78	73	68	62
65°	137	133	129	125	120	115	109	104	97	90	82
62.5°	177	171	166	161	154	146	139	132	124	116	106
60°	226	217	211	203	193	184	174	163	151	141	130
57.5°	293	281	272	259	241	229	217	200	186	172	156
55°	396	384	370	344	314	300	276	252	231	206	189
52.5°	574	564	534	482	447	413	366	332	292	261	230
50°	868	844	792	721	668	589	523	453	386	336	286
47.5°	1255	1217	1145	1065	982	871	765	636	537	434	370
45°	1708	1659	1580	1490	1380	1253	1088	911	734	602	469
42.5°	2190	2139	2059	1957	1835	1684	1482	1240	1012	806	637
40°	2658	2616	2533	2432	2300	2139	1890	1625	1334	1071	818
37.5°	3085	3047	2972	2878	2744	2558	2298	2003	1694	1354	1049
35°	3464	3428	3365	3273	3156	2938	2692	2389	2039	1652	1289
32.5°	3804	3759	3707	3622	3480	3285	3042	2760	2363	1953	1557
30°	4078	4050	4000	3913	3763	3582	3364	3042	2656	2238	1814
27.5°	4325	4309	4260	4156	4020	3844	3605	3299	2921	2495	2058
25°	4545	4533	4471	4372	4245	4064	3819	3518	3152	2727	2261
22.5°	4740	4712	4652	4569	4429	4237	4004	3722	3367	2920	2445
20°	4899	4869	4813	4716	4574	4406	4171	3888	3524	3089	2609
17.5°	5030	5007	4946	4842	4702	4526	4300	4021	3674	3239	2773
15°	5152	5121	5055	4953	4815	4634	4414	4143	3804	3364	2870
12.5°	5261	5230	5164	5060	4917	4730	4506	4235	3895	3457	2955
10°	5377	5339	5264	5152	5004	4814	4580	4300	3955	3525	3020
7.5°	5482	5441	5361	5239	5080	4880	4637	4350	4002	3572	3061
5°	5579	5527	5436	5310	5142	4934	4682	4386	4033	3598	3082
2.5°	5647	5597	5501	5368	5197	4977	4717	4413	4059	3633	3110
0°	5668	5610	5509	5372	5191	4969	4707	4399	4043	3623	3093
-2.5°	5647	5597	5501	5368	5197	4977	4717	4413	4059	3633	3110
-5°	5579	5527	5436	5310	5142	4934	4682	4386	4033	3598	3082
-7.5°	5482	5441	5361	5239	5080	4880	4637	4350	4002	3572	3061
-10°	5377	5339	5264	5152	5004	4814	4580	4300	3955	3525	3020
-12.5°	5261	5230	5164	5060	4917	4730	4506	4235	3895	3457	2955
-15°	5152	5121	5055	4953	4815	4634	4414	4143	3804	3364	2870
-17.5°	5030	5007	4946	4842	4702	4526	4300	4021	3674	3239	2773
-20°	4899	4869	4813	4716	4574	4406	4171	3888	3524	3089	2609



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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°	4740	4712	4652	4569	4429	4237	4004	3722	3367	2920	2445
-25°	4545	4533	4471	4372	4245	4064	3819	3518	3152	2727	2261
-27.5°	4325	4309	4260	4156	4020	3844	3605	3299	2921	2495	2058
-30°	4078	4050	4000	3913	3763	3582	3364	3042	2656	2238	1814
-32.5°	3804	3759	3707	3622	3480	3285	3042	2760	2363	1953	1557
-35°	3464	3428	3365	3273	3156	2938	2692	2389	2039	1652	1289
-37.5°	3085	3047	2972	2878	2744	2558	2298	2003	1694	1354	1049
-40°	2658	2616	2533	2432	2300	2139	1890	1625	1334	1071	818
-42.5°	2190	2139	2059	1957	1835	1684	1482	1240	1012	806	637
-45°	1708	1659	1580	1490	1380	1253	1088	911	734	602	469
-47.5°	1255	1217	1145	1065	982	871	765	636	537	434	370
-50°	868	844	792	721	668	589	523	453	386	336	286
-52.5°	574	564	534	482	447	413	366	332	292	261	230
-55°	396	384	370	344	314	300	276	252	231	206	189
-57.5°	293	281	272	259	241	229	217	200	186	172	156
-60°	226	217	211	203	193	184	174	163	151	141	130
-62.5°	177	171	166	161	154	146	139	132	124	116	106
-65°	137	133	129	125	120	115	109	104	97	90	82
-67.5°	104	101	98	94	91	87	82	78	73	68	62
-70°	76	74	72	68	66	63	59	56	52	48	44
-72.5°	51	50	48	46	44	42	40	38	35	31	29
-75°	31	30	29	28	27	25	23	22	20	19	16
-77.5°	16	16	15	14	14	12	11	10	10	9	9
-80°	7	7	7	6	6	5	5	4	4	3	3
-82.5°	3	3	3	3	2	2	2	2	2	1	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: NHRS50UBZ730_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°	3	3	3	3	2	2	1	1	1	1	1
77.5°	8	7	6	5	5	5	4	3	2	2	1
75°	14	13	12	11	10	8	7	6	4	3	2
72.5°	26	23	21	18	16	14	12	9	7	5	3
70°	40	36	31	28	24	20	17	14	11	8	6
67.5°	56	50	45	39	33	29	23	19	15	11	9
65°	75	67	60	53	45	38	32	25	20	15	11
62.5°	96	85	76	66	58	49	40	32	25	19	14
60°	118	107	94	83	72	61	50	40	31	23	18
57.5°	143	128	114	100	87	74	61	49	38	29	21
55°	169	152	135	119	102	88	72	58	45	34	24
52.5°	203	179	158	139	120	101	84	68	53	40	29
50°	248	212	185	160	137	116	95	77	61	46	33
47.5°	302	255	215	184	158	131	108	87	68	52	37
45°	385	307	254	213	177	148	121	97	76	58	41
42.5°	477	380	301	241	201	165	135	108	85	64	46
40°	627	466	357	283	225	181	148	118	93	70	51
37.5°	791	585	436	323	252	202	162	129	101	77	56
35°	984	726	514	376	286	223	176	140	109	83	60
32.5°	1182	871	620	439	319	244	192	151	117	89	64
30°	1403	1032	728	497	357	270	209	162	125	94	68
27.5°	1607	1182	835	578	406	296	223	172	132	100	73
25°	1792	1345	963	662	452	319	237	182	140	106	77
22.5°	1964	1498	1079	738	491	341	254	193	148	111	81
20°	2116	1632	1183	807	541	374	271	204	154	116	84
17.5°	2248	1748	1282	887	593	403	287	213	161	120	87
15°	2353	1845	1369	955	637	427	300	221	166	124	90
12.5°	2435	1922	1438	1009	673	447	311	228	170	127	92
10°	2496	1978	1490	1050	700	463	320	234	174	130	93
7.5°	2535	2014	1527	1079	720	475	327	237	176	132	94
5°	2557	2039	1554	1104	736	484	332	240	180	134	96
2.5°	2588	2066	1580	1124	750	490	335	243	179	134	96
0°	2576	2058	1574	1121	748	489	334	242	179	134	96
-2.5°	2588	2066	1580	1124	750	490	335	243	179	134	96
-5°	2557	2039	1554	1104	736	484	332	240	180	134	96
-7.5°	2535	2014	1527	1079	720	475	327	237	176	132	94
-10°	2496	1978	1490	1050	700	463	320	234	174	130	93
-12.5°	2435	1922	1438	1009	673	447	311	228	170	127	92
-15°	2353	1845	1369	955	637	427	300	221	166	124	90
-17.5°	2248	1748	1282	887	593	403	287	213	161	120	87
-20°	2116	1632	1183	807	541	374	271	204	154	116	84



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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°	1964	1498	1079	738	491	341	254	193	148	111	81
-25°	1792	1345	963	662	452	319	237	182	140	106	77
-27.5°	1607	1182	835	578	406	296	223	172	132	100	73
-30°	1403	1032	728	497	357	270	209	162	125	94	68
-32.5°	1182	871	620	439	319	244	192	151	117	89	64
-35°	984	726	514	376	286	223	176	140	109	83	60
-37.5°	791	585	436	323	252	202	162	129	101	77	56
-40°	627	466	357	283	225	181	148	118	93	70	51
-42.5°	477	380	301	241	201	165	135	108	85	64	46
-45°	385	307	254	213	177	148	121	97	76	58	41
-47.5°	302	255	215	184	158	131	108	87	68	52	37
-50°	248	212	185	160	137	116	95	77	61	46	33
-52.5°	203	179	158	139	120	101	84	68	53	40	29
-55°	169	152	135	119	102	88	72	58	45	34	24
-57.5°	143	128	114	100	87	74	61	49	38	29	21
-60°	118	107	94	83	72	61	50	40	31	23	18
-62.5°	96	85	76	66	58	49	40	32	25	19	14
-65°	75	67	60	53	45	38	32	25	20	15	11
-67.5°	56	50	45	39	33	29	23	19	15	11	9
-70°	40	36	31	28	24	20	17	14	11	8	6
-72.5°	26	23	21	18	16	14	12	9	7	5	3
-75°	14	13	12	11	10	8	7	6	4	3	2
-77.5°	8	7	6	5	5	5	4	3	2	2	1
-80°	3	3	3	3	2	2	1	1	1	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	0	0	0	0	0	0
75°	2	1	0	0	0	0	0
72.5°	2	2	1	0	0	0	0
70°	3	2	1	0	0	0	0
67.5°	5	3	2	1	0	0	0
65°	7	4	2	1	0	0	0
62.5°	10	5	3	1	0	0	0
60°	12	7	3	2	0	0	0
57.5°	14	9	4	2	0	0	0
55°	17	11	6	2	1	0	0
52.5°	20	12	7	3	1	0	0
50°	22	14	8	3	1	0	0
47.5°	25	16	10	3	1	0	0
45°	28	18	11	4	1	0	0
42.5°	31	20	12	5	2	0	0
40°	35	22	13	6	2	0	0
37.5°	38	23	14	6	2	0	0
35°	40	26	15	7	2	0	0
32.5°	43	28	16	8	2	0	0
30°	46	30	18	9	2	0	0
27.5°	49	31	19	9	3	0	0
25°	52	33	20	10	3	0	0
22.5°	55	35	20	10	3	0	0
20°	57	36	21	11	3	0	0
17.5°	59	37	22	11	3	0	0
15°	61	38	22	12	3	0	0
12.5°	62	39	23	12	3	0	0
10°	63	40	23	12	3	0	0
7.5°	64	40	24	13	3	0	0
5°	65	41	24	13	3	0	0
2.5°	64	41	24	13	3	0	0
0°	64	41	24	13	3	0	0
-2.5°	64	41	24	13	3	0	0
-5°	65	41	24	13	3	0	0
-7.5°	64	40	24	13	3	0	0
-10°	63	40	23	12	3	0	0
-12.5°	62	39	23	12	3	0	0
-15°	61	38	22	12	3	0	0
-17.5°	59	37	22	11	3	0	0
-20°	57	36	21	11	3	0	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	55	35	20	10	3	0	0
-25°	52	33	20	10	3	0	0
-27.5°	49	31	19	9	3	0	0
-30°	46	30	18	9	2	0	0
-32.5°	43	28	16	8	2	0	0
-35°	40	26	15	7	2	0	0
-37.5°	38	23	14	6	2	0	0
-40°	35	22	13	6	2	0	0
-42.5°	31	20	12	5	2	0	0
-45°	28	18	11	4	1	0	0
-47.5°	25	16	10	3	1	0	0
-50°	22	14	8	3	1	0	0
-52.5°	20	12	7	3	1	0	0
-55°	17	11	6	2	1	0	0
-57.5°	14	9	4	2	0	0	0
-60°	12	7	3	2	0	0	0
-62.5°	10	5	3	1	0	0	0
-65°	7	4	2	1	0	0	0
-67.5°	5	3	2	1	0	0	0
-70°	3	2	1	0	0	0	0
-72.5°	2	2	1	0	0	0	0
-75°	2	1	0	0	0	0	0
-77.5°	1	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)