

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: P731763

Luminaire Tested: **NHRS50UBZ730-VS_50**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731763
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ730-VS_50
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 3000K WITH VISOR @ 50% output
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

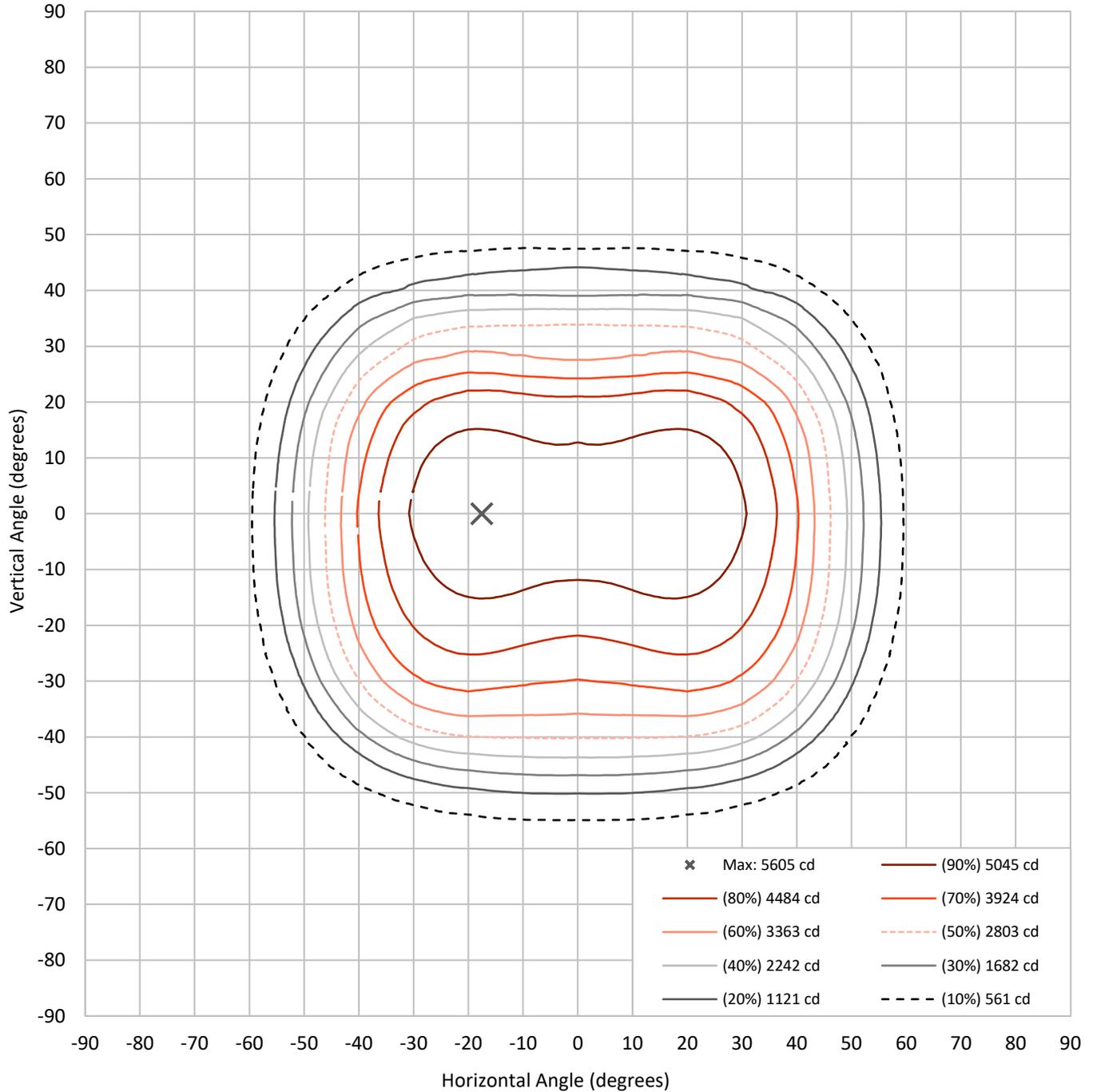
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	9451.9 lumens	Max Intensity:	5605 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	122.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.46' x H: 0')		
Beam Angle (50%):	92.3°H x 73.6°V	Field Angle (10%):	119°H x 101.3°V
Beam Lumens:	7431.9 lumens	Field Lumens:	9142.9 lumens
Beam Efficiency:	78.6%	Field Efficiency:	96.7%
Input Watts (W):	77.1		
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:	28.75 FT		



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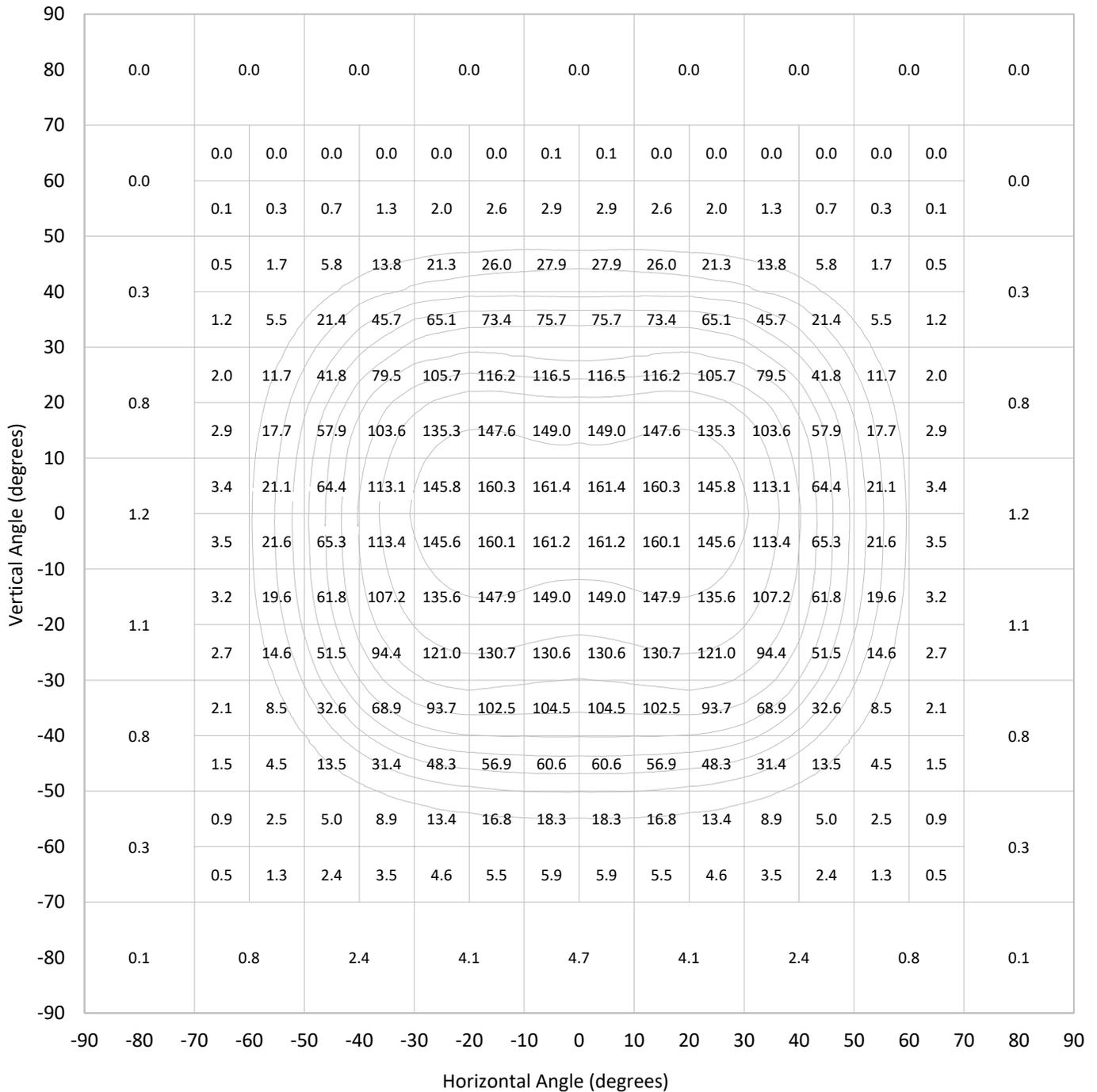
Iso-Candela Plot





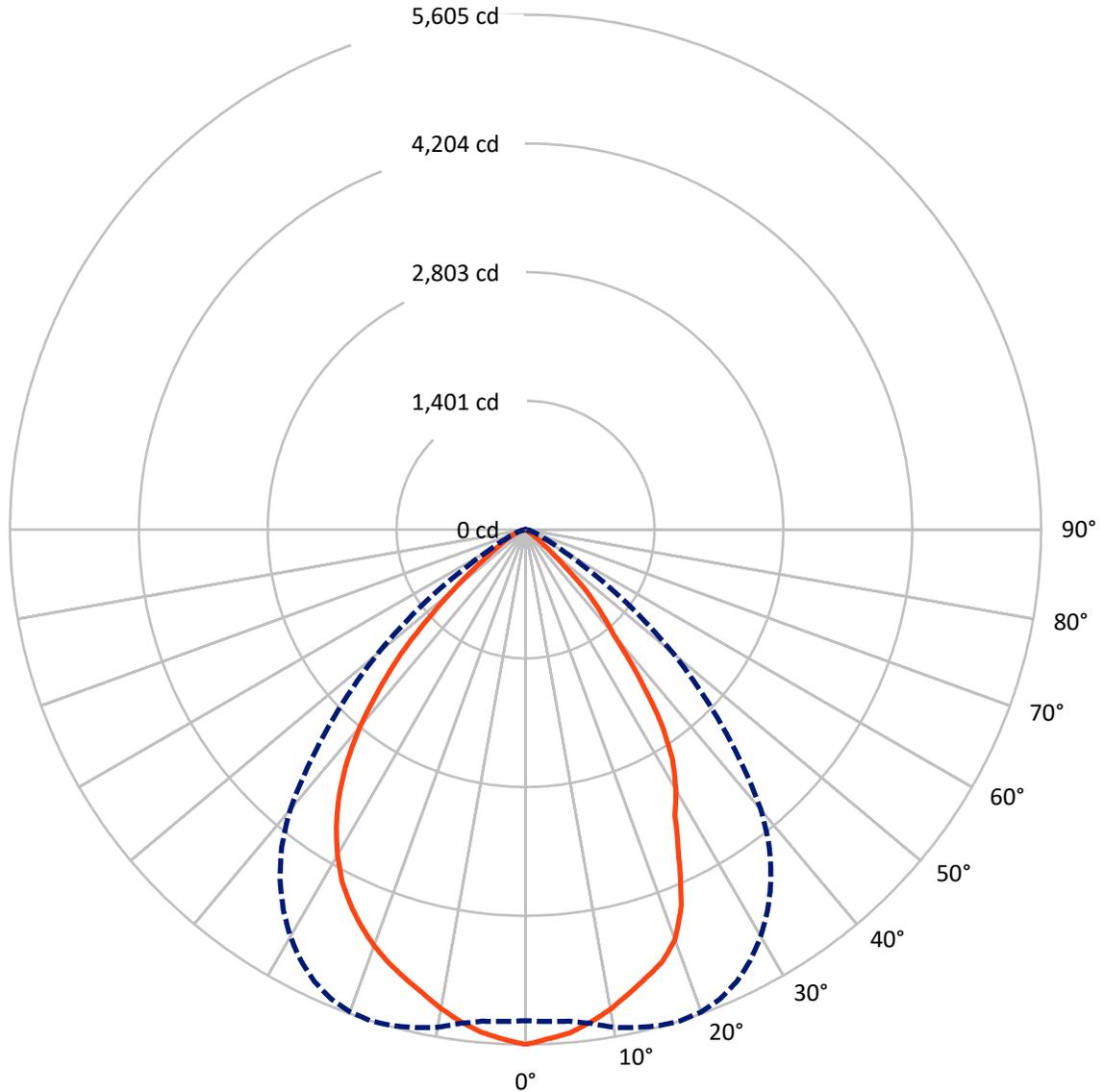
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Lumen Table



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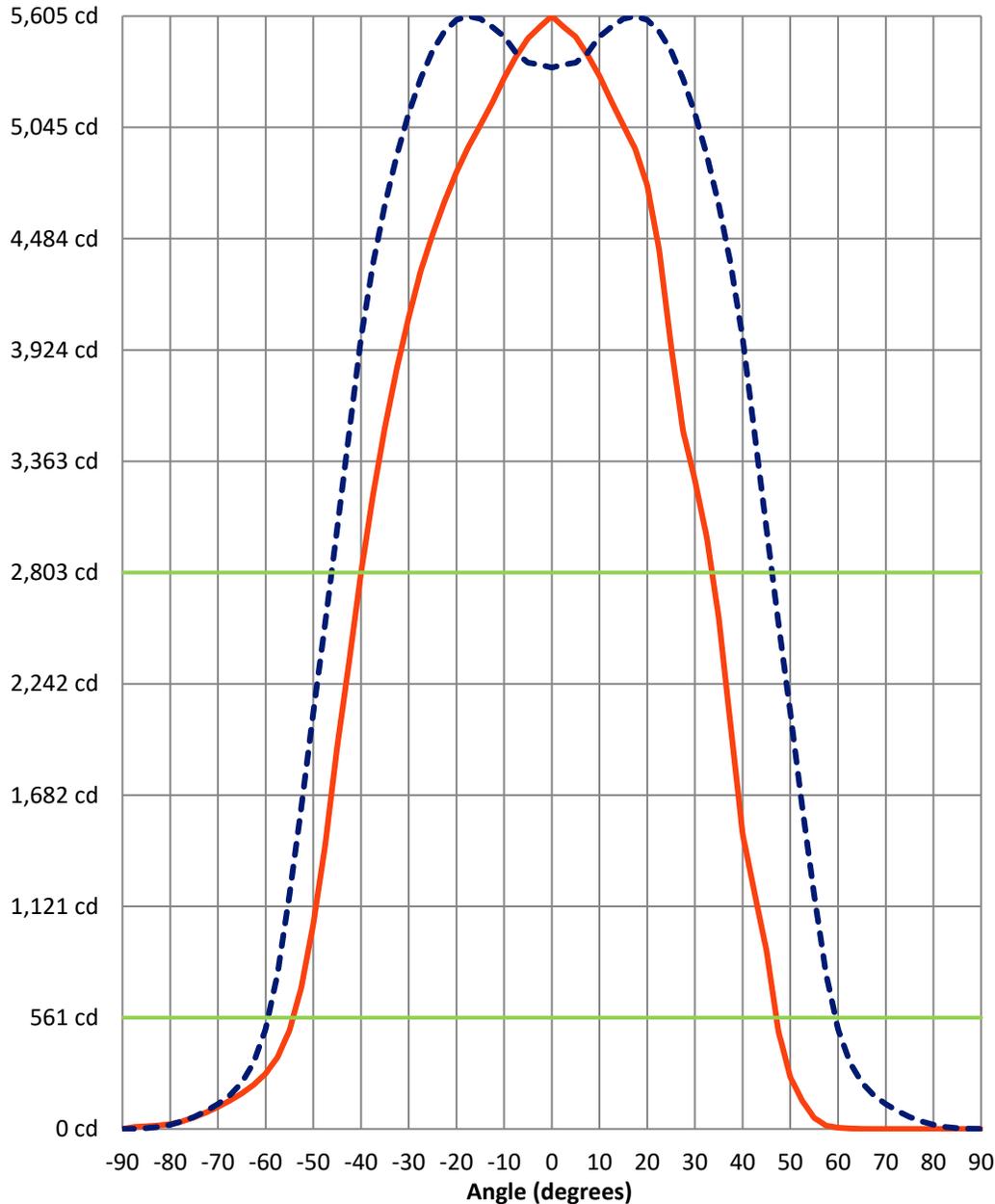
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 92.3°
 V Angle: 73.6°
 Lumens: 7431.9
 Efficiency: 78.6%

Field:
 H Angle: 119°
 V Angle: 101.3°
 Lumens: 9142.9
 Efficiency: 96.7%

Spill:
 Lumens: 309
 Efficiency: 3.3%

— 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	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	1	0	0	0	0	0
70°	0	0	0	0	1	1	0	0	0	0	0
67.5°	0	0	0	0	1	1	1	1	1	1	1
65°	0	0	0	1	1	1	1	1	1	1	1
62.5°	0	1	0	1	1	2	1	1	2	2	2
60°	0	1	0	1	2	2	2	2	2	3	3
57.5°	0	1	1	1	2	2	3	3	4	5	6
55°	0	1	1	2	2	3	4	4	5	7	9
52.5°	0	1	1	2	3	3	5	6	7	11	13
50°	0	1	1	2	3	5	6	8	10	15	20
47.5°	0	1	1	2	4	6	8	11	14	20	27
45°	0	1	1	3	4	7	10	13	19	27	35
42.5°	0	1	2	3	5	9	13	17	24	35	47
40°	0	1	2	3	5	10	15	22	31	42	60
37.5°	0	1	2	4	6	11	18	27	38	52	73
35°	0	1	2	4	7	13	21	31	45	64	87
32.5°	0	1	2	5	9	15	24	36	53	74	101
30°	0	1	3	5	10	18	28	41	60	85	115
27.5°	0	1	3	6	11	20	31	47	68	95	128
25°	0	1	3	6	12	22	35	53	76	106	141
22.5°	0	1	3	6	13	24	39	59	84	116	156
20°	0	1	3	7	14	26	42	64	92	126	170
17.5°	0	1	3	7	15	28	45	70	99	136	184
15°	0	1	4	8	16	30	48	74	106	144	195
12.5°	0	1	4	9	18	32	51	78	111	152	206
10°	0	1	4	9	18	33	53	81	115	158	215
7.5°	0	1	4	9	20	35	55	84	119	162	221
5°	0	1	4	10	20	36	58	88	123	167	226
2.5°	0	1	4	10	21	37	59	89	124	168	231
0°	0	1	4	10	21	38	61	90	126	169	233
-2.5°	0	1	4	11	22	39	62	91	127	171	235
-5°	0	1	4	11	22	40	62	92	128	172	234
-7.5°	0	1	4	11	23	40	62	91	126	170	232
-10°	0	1	5	11	23	40	62	90	125	169	229
-12.5°	0	1	4	11	23	40	62	89	124	167	226
-15°	0	1	4	11	23	40	61	88	122	163	221
-17.5°	0	1	4	11	22	40	61	87	119	160	214
-20°	0	1	4	11	22	39	59	84	116	156	206



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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	1	4	11	22	38	58	82	113	150	197
-25°	0	1	4	11	21	37	56	79	108	144	187
-27.5°	0	1	4	11	21	36	54	76	104	137	179
-30°	0	1	4	10	20	34	52	72	99	131	170
-32.5°	0	1	4	10	19	32	49	69	94	125	160
-35°	0	1	4	10	18	30	46	66	89	117	150
-37.5°	0	1	4	9	17	28	44	62	84	110	140
-40°	0	1	4	9	16	27	41	58	78	102	130
-42.5°	0	1	4	7	15	25	38	54	72	95	119
-45°	0	1	3	7	14	23	35	49	67	87	109
-47.5°	0	1	3	6	13	21	31	45	61	79	99
-50°	0	1	3	6	12	19	29	41	55	71	89
-52.5°	0	1	3	5	11	17	27	37	49	63	80
-55°	0	1	3	5	10	15	24	33	44	56	70
-57.5°	0	1	2	5	8	14	21	29	38	49	61
-60°	0	1	2	4	7	12	18	26	33	42	53
-62.5°	0	1	2	4	6	11	16	22	29	36	45
-65°	0	1	2	3	6	9	14	18	24	30	37
-67.5°	0	1	2	3	5	7	11	15	19	24	30
-70°	0	1	2	2	4	6	9	13	16	19	24
-72.5°	0	1	1	2	3	5	7	10	13	15	18
-75°	0	1	1	2	3	4	6	7	9	12	14
-77.5°	0	1	1	2	2	3	4	6	7	8	10
-80°	0	1	1	1	2	2	3	4	5	6	7
-82.5°	0	0	1	1	1	2	2	3	3	4	5
-85°	0	0	1	1	1	1	2	2	2	3	3
-87.5°	0	0	0	1	1	1	1	1	1	1	2
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: NHRS50UBZ730-VS_50

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	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	1	1	1	0	1	0	0	0	0	0
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	2	2	2	2	2	2	3	3	2	2
60°	3	3	4	5	4	4	5	6	6	4	6
57.5°	5	6	8	10	10	8	12	12	14	13	15
55°	10	10	14	18	19	19	22	27	28	31	32
52.5°	16	17	23	28	32	35	40	50	59	62	67
50°	23	29	35	44	51	59	71	88	107	118	132
47.5°	35	42	52	62	76	95	116	152	177	220	256
45°	47	58	70	88	110	142	189	232	295	358	456
42.5°	62	76	94	115	158	212	274	356	445	571	694
40°	78	95	122	161	215	298	399	505	657	831	986
37.5°	94	120	153	207	299	409	541	721	920	1151	1305
35°	112	146	195	268	385	542	738	953	1199	1476	1671
32.5°	133	174	236	339	492	692	950	1200	1485	1783	2026
30°	155	208	283	408	609	870	1161	1438	1767	2070	2318
27.5°	174	243	343	502	733	1037	1351	1690	2041	2363	2622
25°	192	272	400	604	879	1206	1547	1921	2314	2659	2951
22.5°	213	298	446	704	1015	1373	1749	2150	2560	2954	3278
20°	235	337	506	783	1136	1536	1937	2365	2784	3177	3546
17.5°	255	372	569	868	1242	1676	2111	2586	2988	3374	3725
15°	273	403	623	940	1338	1782	2243	2728	3162	3538	3875
12.5°	290	431	668	1002	1419	1871	2343	2819	3266	3658	3998
10°	304	454	705	1051	1486	1944	2420	2887	3339	3743	4107
7.5°	315	473	733	1089	1538	2000	2475	2934	3399	3820	4199
5°	324	487	756	1129	1580	2044	2511	2957	3441	3883	4273
2.5°	331	499	776	1165	1617	2088	2549	3009	3494	3953	4337
0°	334	504	781	1178	1623	2097	2551	3023	3504	3982	4355
-2.5°	336	506	786	1183	1631	2102	2563	3027	3520	3973	4342
-5°	333	500	777	1164	1610	2072	2538	2992	3492	3932	4299
-7.5°	330	492	763	1142	1590	2057	2530	2992	3477	3911	4264
-10°	323	483	748	1123	1570	2038	2510	2973	3442	3872	4219
-12.5°	317	471	725	1090	1532	2001	2471	2934	3391	3819	4165
-15°	308	454	693	1042	1478	1945	2414	2874	3323	3745	4094
-17.5°	296	431	652	978	1406	1872	2337	2807	3232	3647	3993
-20°	282	403	602	898	1318	1775	2234	2683	3120	3532	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°	265	368	552	830	1212	1652	2110	2557	2989	3408	3746
-25°	249	346	510	751	1090	1507	1966	2412	2837	3224	3563
-27.5°	236	322	456	661	953	1347	1794	2239	2635	3021	3372
-30°	222	293	398	569	837	1186	1595	2015	2401	2782	3143
-32.5°	205	265	356	500	715	1011	1364	1755	2140	2509	2884
-35°	189	243	319	428	593	847	1143	1475	1855	2212	2528
-37.5°	176	221	280	367	503	683	933	1216	1539	1894	2163
-40°	161	197	250	322	411	546	742	968	1238	1508	1798
-42.5°	149	182	223	274	347	445	568	763	953	1166	1397
-45°	135	165	197	240	291	358	458	568	720	864	1048
-47.5°	123	148	178	208	247	297	357	443	519	637	747
-50°	109	133	157	183	212	247	292	338	399	457	532
-52.5°	98	118	139	160	183	209	238	271	307	343	390
-55°	85	104	121	140	158	178	199	223	243	271	296
-57.5°	75	89	105	120	136	152	169	185	203	219	236
-60°	64	76	89	103	116	131	143	157	170	182	195
-62.5°	54	64	75	87	98	109	121	132	144	153	162
-65°	45	53	62	71	82	90	100	109	118	126	133
-67.5°	36	43	50	57	65	72	79	87	94	101	107
-70°	29	33	39	45	50	55	62	67	72	78	82
-72.5°	22	26	29	33	37	41	46	49	54	58	62
-75°	16	19	21	24	27	29	31	35	38	40	44
-77.5°	12	13	15	16	18	20	22	23	25	26	28
-80°	8	9	10	11	12	13	14	15	15	16	18
-82.5°	6	6	7	7	9	9	10	11	11	12	13
-85°	4	4	5	6	6	7	7	8	9	9	9
-87.5°	2	2	3	3	3	4	4	4	5	5	6
-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°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	2	2	2	3	3	3	3	3	3	3	3
60°	7	6	5	6	6	6	6	6	6	6	6
57.5°	16	14	12	16	16	13	14	17	16	14	14
55°	37	39	36	45	50	48	46	56	61	61	60
52.5°	74	93	99	102	115	124	132	142	150	156	164
50°	167	190	198	183	234	257	240	261	280	272	267
47.5°	320	351	384	423	464	491	491	493	527	547	560
45°	532	592	651	721	775	800	835	898	911	934	957
42.5°	778	845	930	1025	1055	1111	1159	1189	1228	1246	1253
40°	1066	1119	1296	1381	1385	1418	1515	1487	1498	1541	1497
37.5°	1424	1580	1756	1838	1887	1979	2017	2027	2028	2033	2034
35°	1833	2034	2282	2350	2434	2521	2566	2572	2612	2621	2620
32.5°	2202	2427	2641	2769	2852	2910	2981	2977	2982	2989	2985
30°	2516	2766	2967	3087	3129	3205	3260	3267	3250	3230	3217
27.5°	2862	3096	3297	3379	3409	3500	3559	3518	3529	3443	3446
25°	3213	3448	3628	3741	3806	3914	3966	3944	3946	3876	3833
22.5°	3543	3768	3974	4146	4247	4349	4428	4427	4443	4392	4361
20°	3846	4076	4277	4471	4605	4688	4750	4752	4746	4701	4669
17.5°	4049	4328	4527	4702	4831	4894	4922	4935	4909	4878	4842
15°	4200	4489	4717	4860	4958	5022	5054	5055	5044	5016	4977
12.5°	4329	4617	4832	4973	5072	5133	5166	5176	5169	5144	5106
10°	4440	4716	4915	5059	5166	5240	5284	5303	5291	5264	5229
7.5°	4527	4783	4983	5139	5259	5338	5386	5409	5406	5376	5343
5°	4591	4828	5034	5197	5324	5415	5473	5501	5492	5467	5434
2.5°	4643	4871	5086	5246	5377	5470	5527	5550	5541	5511	5471
0°	4654	4903	5115	5289	5430	5528	5586	5605	5591	5551	5502
-2.5°	4632	4871	5082	5246	5384	5473	5529	5551	5539	5504	5463
-5°	4584	4818	5021	5187	5319	5410	5465	5493	5486	5458	5426
-7.5°	4539	4764	4957	5117	5243	5328	5376	5402	5402	5367	5333
-10°	4484	4699	4882	5032	5147	5228	5274	5293	5279	5253	5222
-12.5°	4421	4627	4799	4941	5047	5118	5156	5168	5164	5143	5103
-15°	4346	4545	4709	4840	4941	5008	5041	5056	5050	5021	4982
-17.5°	4255	4456	4609	4736	4840	4899	4931	4946	4927	4894	4859
-20°	4153	4358	4500	4622	4717	4779	4815	4819	4799	4760	4715



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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°	4007	4218	4385	4496	4578	4640	4672	4670	4653	4608	4558
-25°	3842	4072	4236	4344	4429	4490	4504	4505	4475	4430	4387
-27.5°	3652	3873	4044	4167	4259	4299	4316	4319	4278	4231	4197
-30°	3444	3639	3811	3958	4035	4079	4100	4088	4055	4020	3993
-32.5°	3148	3378	3555	3691	3773	3820	3861	3829	3796	3781	3764
-35°	2817	3052	3265	3370	3458	3518	3543	3532	3506	3512	3500
-37.5°	2436	2686	2872	3004	3092	3164	3190	3190	3191	3195	3187
-40°	2039	2279	2444	2583	2681	2750	2783	2799	2824	2831	2822
-42.5°	1627	1827	1993	2126	2234	2303	2338	2352	2399	2420	2423
-45°	1229	1393	1528	1655	1754	1822	1867	1922	1947	1971	1987
-47.5°	883	998	1113	1208	1291	1360	1391	1432	1488	1516	1537
-50°	613	687	772	831	909	964	986	1033	1078	1104	1126
-52.5°	432	487	525	564	623	660	676	715	744	760	778
-55°	326	356	375	408	436	453	468	496	512	515	525
-57.5°	256	272	288	308	323	332	346	361	371	375	382
-60°	206	218	230	242	252	259	270	279	284	288	292
-62.5°	170	178	187	195	201	208	216	222	227	231	234
-65°	140	146	152	158	163	169	174	179	183	186	188
-67.5°	113	117	122	127	131	135	139	143	145	148	150
-70°	87	91	94	98	101	104	108	111	113	115	116
-72.5°	65	67	70	73	75	78	80	83	84	85	87
-75°	46	48	50	52	54	55	57	59	61	61	61
-77.5°	29	31	33	35	36	37	37	38	39	39	39
-80°	19	20	21	22	23	23	24	24	24	25	25
-82.5°	13	14	14	15	16	16	17	18	18	18	18
-85°	10	10	11	11	12	12	13	13	14	14	14
-87.5°	6	7	7	8	9	9	10	10	11	11	11
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731763
 CATALOG NUMBER: NHRS50UBZ730-VS_50

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°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	1	1	1	1
62.5°	3	3	3	3	3	3	3	3	3	3	3
60°	7	7	7	7	7	7	7	6	6	6	6
57.5°	14	13	13	12	13	13	14	14	14	16	17
55°	55	47	42	40	42	47	55	60	61	61	56
52.5°	172	177	184	184	184	177	172	164	156	150	142
50°	270	268	272	278	272	268	270	267	272	280	261
47.5°	556	525	509	506	509	525	556	560	547	527	493
45°	983	1001	1034	1045	1034	1001	983	957	934	911	898
42.5°	1268	1272	1281	1289	1281	1272	1268	1253	1246	1228	1189
40°	1494	1485	1478	1479	1478	1485	1494	1497	1541	1498	1487
37.5°	2056	2035	2003	2007	2003	2035	2056	2034	2033	2028	2027
35°	2631	2645	2669	2660	2669	2645	2631	2620	2621	2612	2572
32.5°	2978	2979	2980	2976	2980	2979	2978	2985	2989	2982	2977
30°	3191	3177	3154	3163	3154	3177	3191	3217	3230	3250	3267
27.5°	3398	3369	3336	3339	3336	3369	3398	3446	3443	3529	3518
25°	3820	3792	3737	3747	3737	3792	3820	3833	3876	3946	3944
22.5°	4319	4315	4318	4318	4318	4315	4319	4361	4392	4443	4427
20°	4627	4596	4583	4596	4583	4596	4627	4669	4701	4746	4752
17.5°	4795	4773	4768	4778	4768	4773	4795	4842	4878	4909	4935
15°	4938	4918	4914	4923	4914	4918	4938	4977	5016	5044	5055
12.5°	5069	5041	5036	5062	5036	5041	5069	5106	5144	5169	5176
10°	5194	5154	5148	5173	5148	5154	5194	5229	5264	5291	5303
7.5°	5303	5258	5245	5283	5245	5258	5303	5343	5376	5406	5409
5°	5384	5339	5299	5352	5299	5339	5384	5434	5467	5492	5501
2.5°	5414	5380	5352	5371	5352	5380	5414	5471	5511	5541	5550
0°	5420	5371	5360	5346	5360	5371	5420	5502	5551	5591	5605
-2.5°	5412	5375	5353	5340	5353	5375	5412	5463	5504	5539	5551
-5°	5371	5337	5296	5313	5296	5337	5371	5426	5458	5486	5493
-7.5°	5300	5246	5230	5247	5230	5246	5300	5333	5367	5402	5402
-10°	5178	5138	5129	5138	5129	5138	5178	5222	5253	5279	5293
-12.5°	5062	5033	5023	5014	5023	5033	5062	5103	5143	5164	5168
-15°	4943	4917	4905	4900	4905	4917	4943	4982	5021	5050	5056
-17.5°	4815	4786	4767	4759	4767	4786	4815	4859	4894	4927	4946
-20°	4674	4636	4614	4599	4614	4636	4674	4715	4760	4799	4819



REPORT NUMBER: P731763
 CATALOG NUMBER: NHRS50UBZ730-VS_50

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	4518	4481	4456	4443	4456	4481	4518	4558	4608	4653	4670
-25°	4348	4317	4286	4281	4286	4317	4348	4387	4430	4475	4505
-27.5°	4158	4137	4108	4092	4108	4137	4158	4197	4231	4278	4319
-30°	3954	3942	3923	3902	3923	3942	3954	3993	4020	4055	4088
-32.5°	3741	3731	3716	3703	3716	3731	3741	3764	3781	3796	3829
-35°	3492	3485	3475	3454	3475	3485	3492	3500	3512	3506	3532
-37.5°	3193	3191	3188	3173	3188	3191	3193	3187	3195	3191	3190
-40°	2839	2841	2843	2830	2843	2841	2839	2822	2831	2824	2799
-42.5°	2444	2446	2450	2433	2450	2446	2444	2423	2420	2399	2352
-45°	2011	2012	2020	2014	2020	2012	2011	1987	1971	1947	1922
-47.5°	1559	1564	1572	1559	1572	1564	1559	1537	1516	1488	1432
-50°	1142	1142	1148	1139	1148	1142	1142	1126	1104	1078	1033
-52.5°	786	783	787	785	787	783	786	778	760	744	715
-55°	530	529	531	529	531	529	530	525	515	512	496
-57.5°	384	384	385	384	385	384	384	382	375	371	361
-60°	295	296	297	296	297	296	295	292	288	284	279
-62.5°	235	236	237	236	237	236	235	234	231	227	222
-65°	190	191	192	191	192	191	190	188	186	183	179
-67.5°	151	153	153	152	153	153	151	150	148	145	143
-70°	117	118	117	116	117	118	117	116	115	113	111
-72.5°	87	87	87	87	87	87	87	87	85	84	83
-75°	61	61	61	59	61	61	61	61	61	61	59
-77.5°	39	39	39	38	39	39	39	39	39	39	38
-80°	26	26	25	24	25	26	26	25	25	24	24
-82.5°	18	18	18	18	18	18	18	18	18	18	18
-85°	14	14	14	14	14	14	14	14	14	14	13
-87.5°	11	11	11	11	11	11	11	11	11	11	10
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731763
 CATALOG NUMBER: NHRS50UBZ730-VS_50

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°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	3	3	3	3	2	2	2	2	2	3	3
60°	6	6	6	6	5	6	7	6	4	6	6
57.5°	14	13	16	16	12	14	16	15	13	14	12
55°	46	48	50	45	36	39	37	32	31	28	27
52.5°	132	124	115	102	99	93	74	67	62	59	50
50°	240	257	234	183	198	190	167	132	118	107	88
47.5°	491	491	464	423	384	351	320	256	220	177	152
45°	835	800	775	721	651	592	532	456	358	295	232
42.5°	1159	1111	1055	1025	930	845	778	694	571	445	356
40°	1515	1418	1385	1381	1296	1119	1066	986	831	657	505
37.5°	2017	1979	1887	1838	1756	1580	1424	1305	1151	920	721
35°	2566	2521	2434	2350	2282	2034	1833	1671	1476	1199	953
32.5°	2981	2910	2852	2769	2641	2427	2202	2026	1783	1485	1200
30°	3260	3205	3129	3087	2967	2766	2516	2318	2070	1767	1438
27.5°	3559	3500	3409	3379	3297	3096	2862	2622	2363	2041	1690
25°	3966	3914	3806	3741	3628	3448	3213	2951	2659	2314	1921
22.5°	4428	4349	4247	4146	3974	3768	3543	3278	2954	2560	2150
20°	4750	4688	4605	4471	4277	4076	3846	3546	3177	2784	2365
17.5°	4922	4894	4831	4702	4527	4328	4049	3725	3374	2988	2586
15°	5054	5022	4958	4860	4717	4489	4200	3875	3538	3162	2728
12.5°	5166	5133	5072	4973	4832	4617	4329	3998	3658	3266	2819
10°	5284	5240	5166	5059	4915	4716	4440	4107	3743	3339	2887
7.5°	5386	5338	5259	5139	4983	4783	4527	4199	3820	3399	2934
5°	5473	5415	5324	5197	5034	4828	4591	4273	3883	3441	2957
2.5°	5527	5470	5377	5246	5086	4871	4643	4337	3953	3494	3009
0°	5586	5528	5430	5289	5115	4903	4654	4355	3982	3504	3023
-2.5°	5529	5473	5384	5246	5082	4871	4632	4342	3973	3520	3027
-5°	5465	5410	5319	5187	5021	4818	4584	4299	3932	3492	2992
-7.5°	5376	5328	5243	5117	4957	4764	4539	4264	3911	3477	2992
-10°	5274	5228	5147	5032	4882	4699	4484	4219	3872	3442	2973
-12.5°	5156	5118	5047	4941	4799	4627	4421	4165	3819	3391	2934
-15°	5041	5008	4941	4840	4709	4545	4346	4094	3745	3323	2874
-17.5°	4931	4899	4840	4736	4609	4456	4255	3993	3647	3232	2807
-20°	4815	4779	4717	4622	4500	4358	4153	3888	3532	3120	2683



REPORT NUMBER: P731763
 CATALOG NUMBER: NHRS50UBZ730-VS_50

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	4672	4640	4578	4496	4385	4218	4007	3746	3408	2989	2557
-25°	4504	4490	4429	4344	4236	4072	3842	3563	3224	2837	2412
-27.5°	4316	4299	4259	4167	4044	3873	3652	3372	3021	2635	2239
-30°	4100	4079	4035	3958	3811	3639	3444	3143	2782	2401	2015
-32.5°	3861	3820	3773	3691	3555	3378	3148	2884	2509	2140	1755
-35°	3543	3518	3458	3370	3265	3052	2817	2528	2212	1855	1475
-37.5°	3190	3164	3092	3004	2872	2686	2436	2163	1894	1539	1216
-40°	2783	2750	2681	2583	2444	2279	2039	1798	1508	1238	968
-42.5°	2338	2303	2234	2126	1993	1827	1627	1397	1166	953	763
-45°	1867	1822	1754	1655	1528	1393	1229	1048	864	720	568
-47.5°	1391	1360	1291	1208	1113	998	883	747	637	519	443
-50°	986	964	909	831	772	687	613	532	457	399	338
-52.5°	676	660	623	564	525	487	432	390	343	307	271
-55°	468	453	436	408	375	356	326	296	271	243	223
-57.5°	346	332	323	308	288	272	256	236	219	203	185
-60°	270	259	252	242	230	218	206	195	182	170	157
-62.5°	216	208	201	195	187	178	170	162	153	144	132
-65°	174	169	163	158	152	146	140	133	126	118	109
-67.5°	139	135	131	127	122	117	113	107	101	94	87
-70°	108	104	101	98	94	91	87	82	78	72	67
-72.5°	80	78	75	73	70	67	65	62	58	54	49
-75°	57	55	54	52	50	48	46	44	40	38	35
-77.5°	37	37	36	35	33	31	29	28	26	25	23
-80°	24	23	23	22	21	20	19	18	16	15	15
-82.5°	17	16	16	15	14	14	13	13	12	11	11
-85°	13	12	12	11	11	10	10	9	9	9	8
-87.5°	10	9	9	8	7	7	6	6	5	5	4
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731763
 CATALOG NUMBER: NHRS50UBZ730-VS_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°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	1	0	1	1	1	0	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	2	2	2	2	2	2	1	2	2	2	1
60°	5	4	4	5	4	3	3	3	3	2	2
57.5°	12	8	10	10	8	6	5	6	5	4	3
55°	22	19	19	18	14	10	10	9	7	5	4
52.5°	40	35	32	28	23	17	16	13	11	7	6
50°	71	59	51	44	35	29	23	20	15	10	8
47.5°	116	95	76	62	52	42	35	27	20	14	11
45°	189	142	110	88	70	58	47	35	27	19	13
42.5°	274	212	158	115	94	76	62	47	35	24	17
40°	399	298	215	161	122	95	78	60	42	31	22
37.5°	541	409	299	207	153	120	94	73	52	38	27
35°	738	542	385	268	195	146	112	87	64	45	31
32.5°	950	692	492	339	236	174	133	101	74	53	36
30°	1161	870	609	408	283	208	155	115	85	60	41
27.5°	1351	1037	733	502	343	243	174	128	95	68	47
25°	1547	1206	879	604	400	272	192	141	106	76	53
22.5°	1749	1373	1015	704	446	298	213	156	116	84	59
20°	1937	1536	1136	783	506	337	235	170	126	92	64
17.5°	2111	1676	1242	868	569	372	255	184	136	99	70
15°	2243	1782	1338	940	623	403	273	195	144	106	74
12.5°	2343	1871	1419	1002	668	431	290	206	152	111	78
10°	2420	1944	1486	1051	705	454	304	215	158	115	81
7.5°	2475	2000	1538	1089	733	473	315	221	162	119	84
5°	2511	2044	1580	1129	756	487	324	226	167	123	88
2.5°	2549	2088	1617	1165	776	499	331	231	168	124	89
0°	2551	2097	1623	1178	781	504	334	233	169	126	90
-2.5°	2563	2102	1631	1183	786	506	336	235	171	127	91
-5°	2538	2072	1610	1164	777	500	333	234	172	128	92
-7.5°	2530	2057	1590	1142	763	492	330	232	170	126	91
-10°	2510	2038	1570	1123	748	483	323	229	169	125	90
-12.5°	2471	2001	1532	1090	725	471	317	226	167	124	89
-15°	2414	1945	1478	1042	693	454	308	221	163	122	88
-17.5°	2337	1872	1406	978	652	431	296	214	160	119	87
-20°	2234	1775	1318	898	602	403	282	206	156	116	84



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 CATALOG NUMBER: NHRS50UBZ730-VS_50

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2110	1652	1212	830	552	368	265	197	150	113	82
-25°	1966	1507	1090	751	510	346	249	187	144	108	79
-27.5°	1794	1347	953	661	456	322	236	179	137	104	76
-30°	1595	1186	837	569	398	293	222	170	131	99	72
-32.5°	1364	1011	715	500	356	265	205	160	125	94	69
-35°	1143	847	593	428	319	243	189	150	117	89	66
-37.5°	933	683	503	367	280	221	176	140	110	84	62
-40°	742	546	411	322	250	197	161	130	102	78	58
-42.5°	568	445	347	274	223	182	149	119	95	72	54
-45°	458	358	291	240	197	165	135	109	87	67	49
-47.5°	357	297	247	208	178	148	123	99	79	61	45
-50°	292	247	212	183	157	133	109	89	71	55	41
-52.5°	238	209	183	160	139	118	98	80	63	49	37
-55°	199	178	158	140	121	104	85	70	56	44	33
-57.5°	169	152	136	120	105	89	75	61	49	38	29
-60°	143	131	116	103	89	76	64	53	42	33	26
-62.5°	121	109	98	87	75	64	54	45	36	29	22
-65°	100	90	82	71	62	53	45	37	30	24	18
-67.5°	79	72	65	57	50	43	36	30	24	19	15
-70°	62	55	50	45	39	33	29	24	19	16	13
-72.5°	46	41	37	33	29	26	22	18	15	13	10
-75°	31	29	27	24	21	19	16	14	12	9	7
-77.5°	22	20	18	16	15	13	12	10	8	7	6
-80°	14	13	12	11	10	9	8	7	6	5	4
-82.5°	10	9	9	7	7	6	6	5	4	3	3
-85°	7	7	6	6	5	4	4	3	3	2	2
-87.5°	4	4	3	3	3	2	2	2	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731763
 CATALOG NUMBER: NHRS50UBZ730-VS_50

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°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
72.5°	0	1	0	0	0	0	0
70°	0	1	1	0	0	0	0
67.5°	1	1	1	0	0	0	0
65°	1	1	1	1	0	0	0
62.5°	1	2	1	1	0	1	0
60°	2	2	2	1	0	1	0
57.5°	3	2	2	1	1	1	0
55°	4	3	2	2	1	1	0
52.5°	5	3	3	2	1	1	0
50°	6	5	3	2	1	1	0
47.5°	8	6	4	2	1	1	0
45°	10	7	4	3	1	1	0
42.5°	13	9	5	3	2	1	0
40°	15	10	5	3	2	1	0
37.5°	18	11	6	4	2	1	0
35°	21	13	7	4	2	1	0
32.5°	24	15	9	5	2	1	0
30°	28	18	10	5	3	1	0
27.5°	31	20	11	6	3	1	0
25°	35	22	12	6	3	1	0
22.5°	39	24	13	6	3	1	0
20°	42	26	14	7	3	1	0
17.5°	45	28	15	7	3	1	0
15°	48	30	16	8	4	1	0
12.5°	51	32	18	9	4	1	0
10°	53	33	18	9	4	1	0
7.5°	55	35	20	9	4	1	0
5°	58	36	20	10	4	1	0
2.5°	59	37	21	10	4	1	0
0°	61	38	21	10	4	1	0
-2.5°	62	39	22	11	4	1	0
-5°	62	40	22	11	4	1	0
-7.5°	62	40	23	11	4	1	0
-10°	62	40	23	11	5	1	0
-12.5°	62	40	23	11	4	1	0
-15°	61	40	23	11	4	1	0
-17.5°	61	40	22	11	4	1	0
-20°	59	39	22	11	4	1	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	58	38	22	11	4	1	0
-25°	56	37	21	11	4	1	0
-27.5°	54	36	21	11	4	1	0
-30°	52	34	20	10	4	1	0
-32.5°	49	32	19	10	4	1	0
-35°	46	30	18	10	4	1	0
-37.5°	44	28	17	9	4	1	0
-40°	41	27	16	9	4	1	0
-42.5°	38	25	15	7	4	1	0
-45°	35	23	14	7	3	1	0
-47.5°	31	21	13	6	3	1	0
-50°	29	19	12	6	3	1	0
-52.5°	27	17	11	5	3	1	0
-55°	24	15	10	5	3	1	0
-57.5°	21	14	8	5	2	1	0
-60°	18	12	7	4	2	1	0
-62.5°	16	11	6	4	2	1	0
-65°	14	9	6	3	2	1	0
-67.5°	11	7	5	3	2	1	0
-70°	9	6	4	2	2	1	0
-72.5°	7	5	3	2	1	1	0
-75°	6	4	3	2	1	1	0
-77.5°	4	3	2	2	1	1	0
-80°	3	2	2	1	1	1	0
-82.5°	2	2	1	1	1	0	0
-85°	2	1	1	1	1	0	0
-87.5°	1	1	1	1	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)