

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: P731765

Luminaire Tested: **NHRS50UBZ730-VS**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731765
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ730-VS
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 3000K WITH VISOR
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

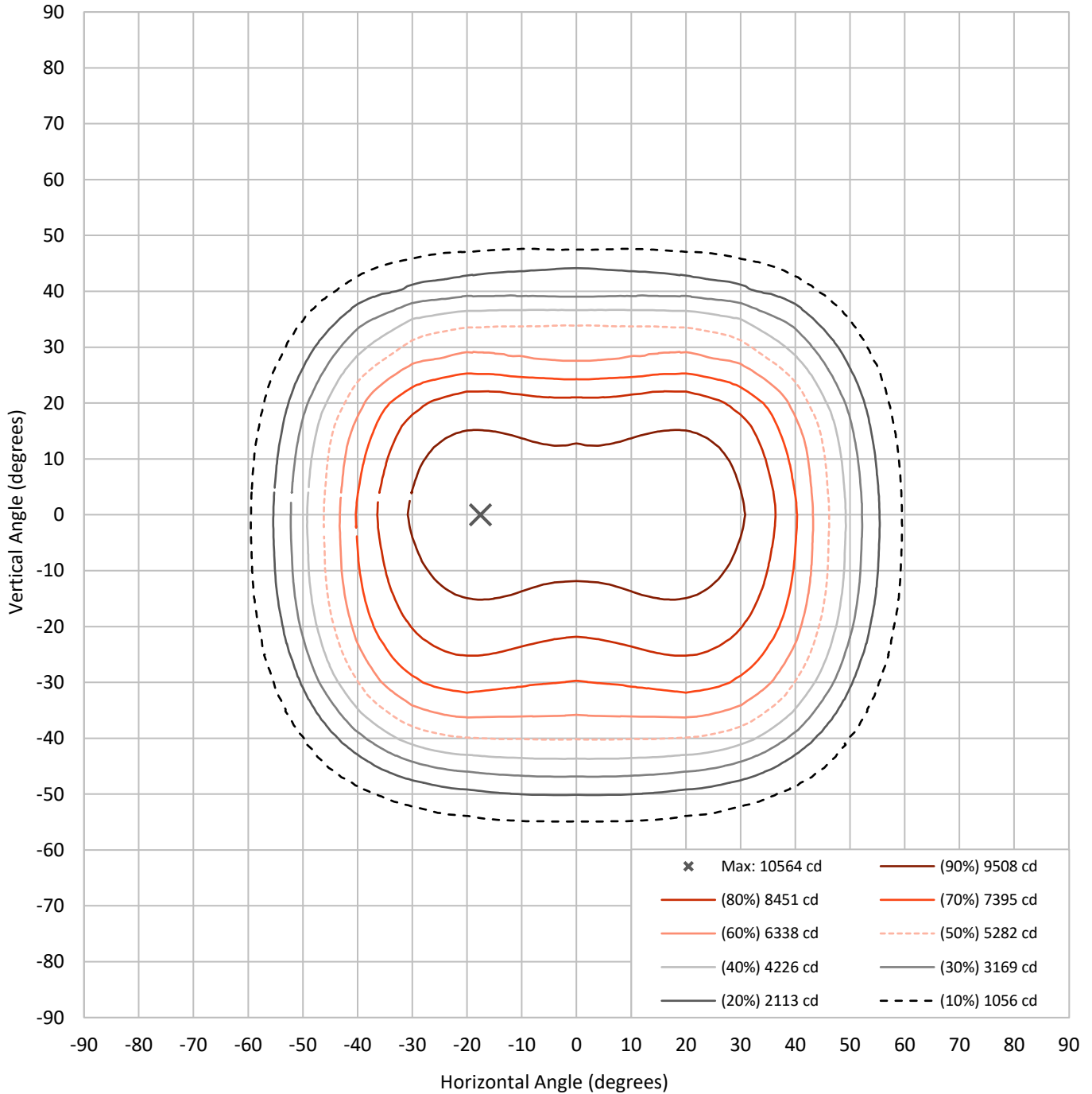
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	17814.5 lumens	Max Intensity:	10564 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	116.0 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:	14007.4 lumens	Field Lumens:	17232.1 lumens
Beam Efficiency:	78.6%	Field Efficiency:	96.7%
Input Watts (W):	153.6		
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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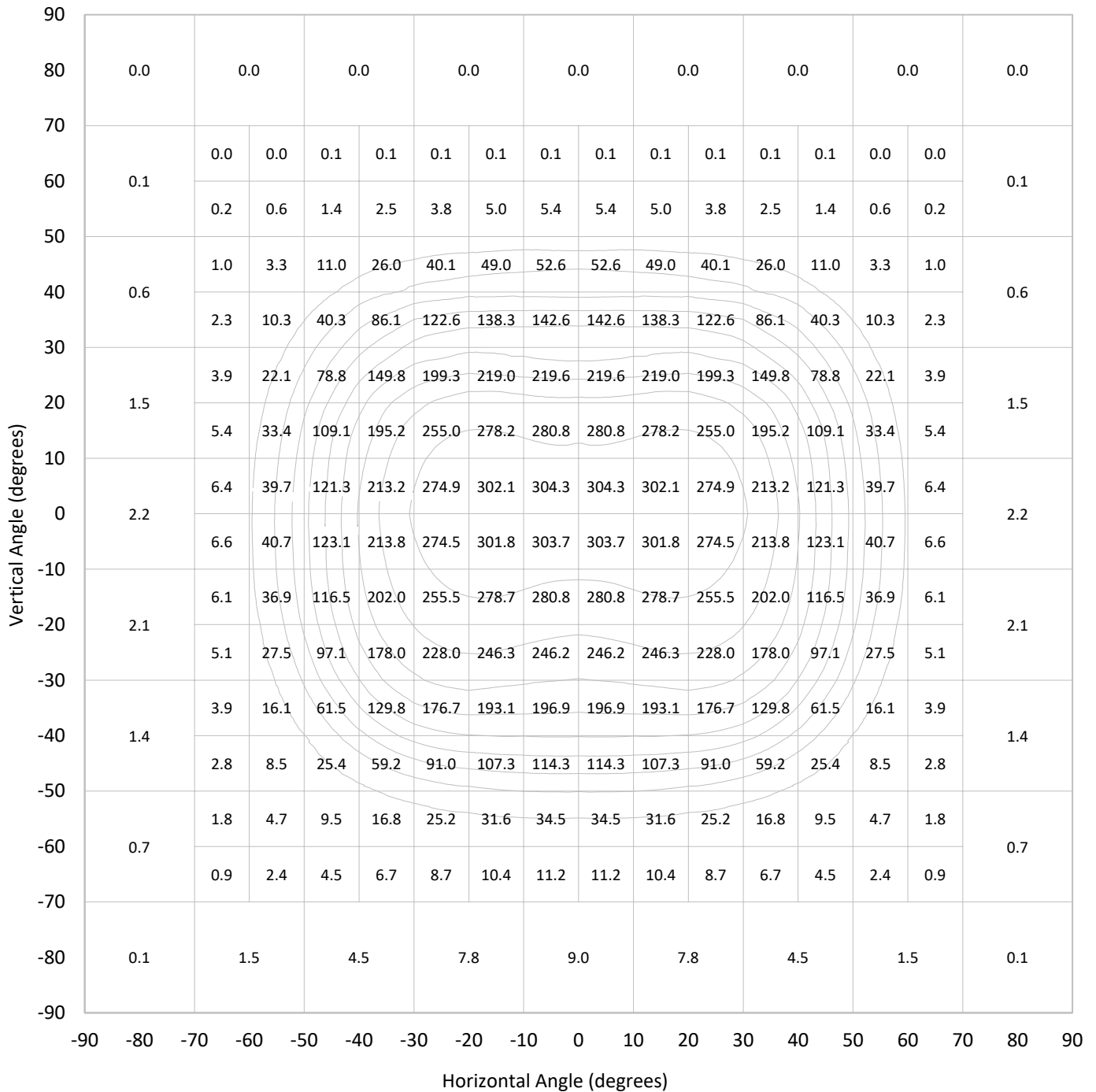
Iso-Candela Plot





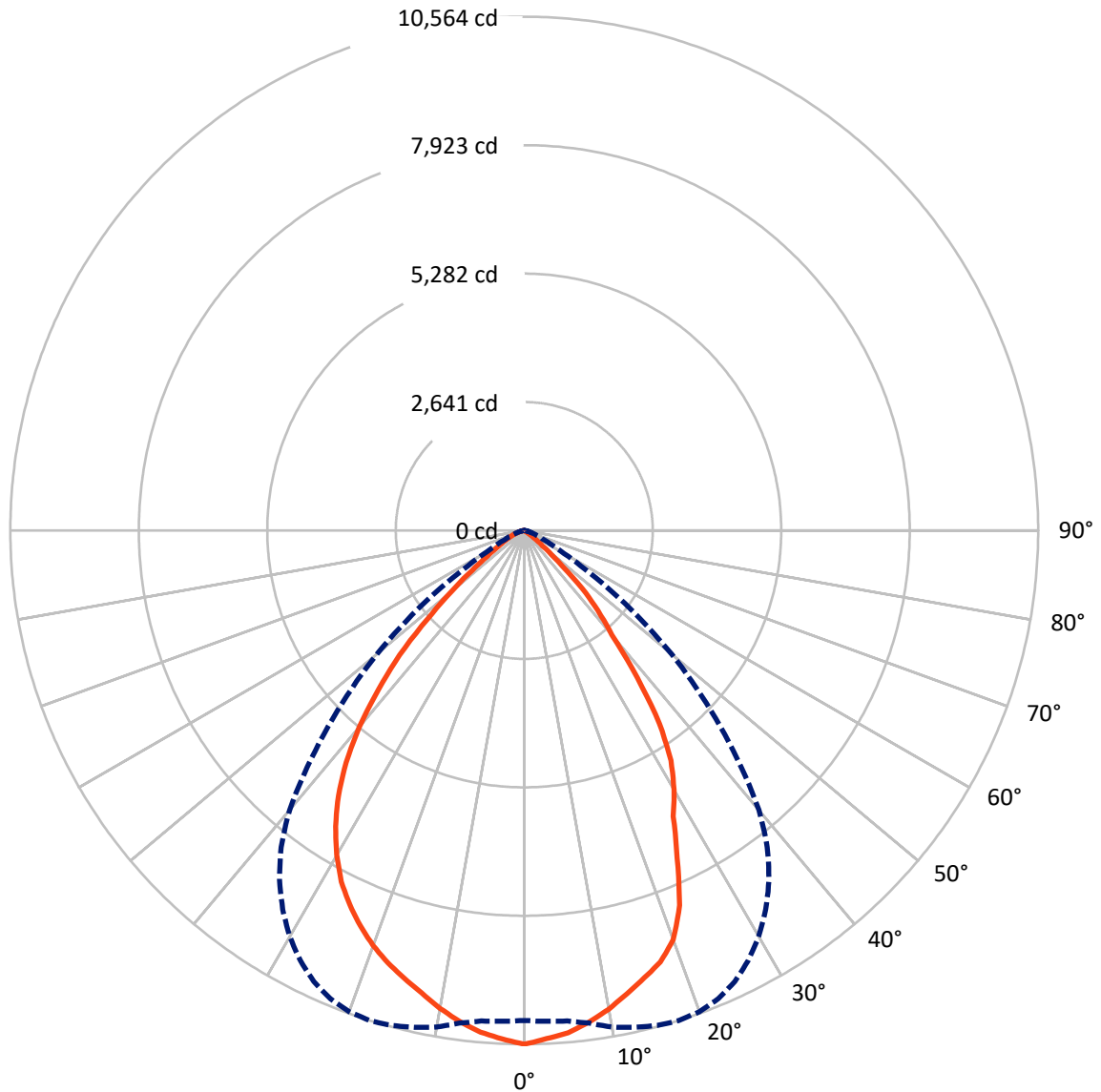
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Lumen Table



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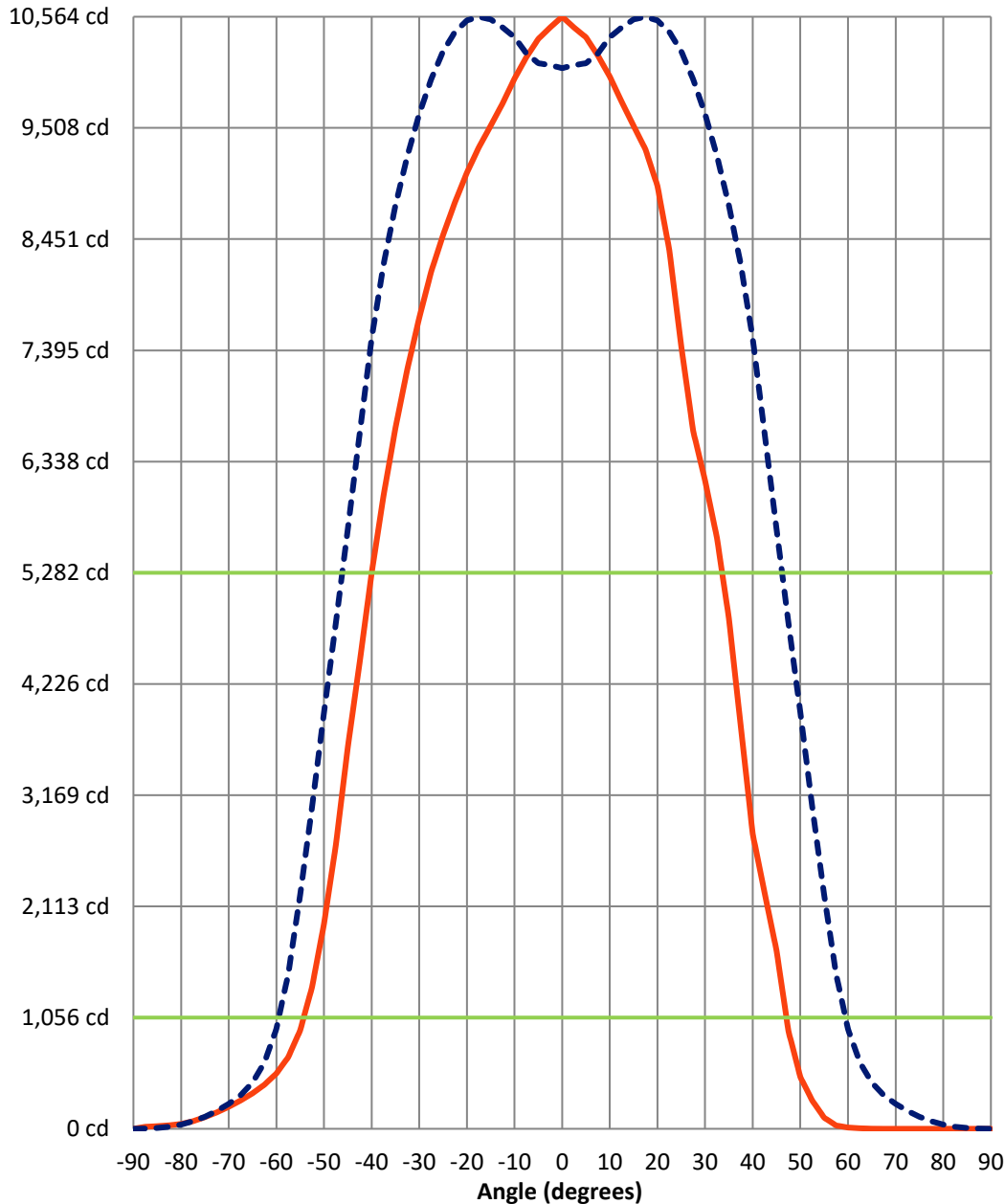
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 92.3°
 V Angle: 73.6°
 Lumens: 14007.4
 Efficiency: 78.6%

Field:
 H Angle: 119°
 V Angle: 101.3°
 Lumens: 17232.1
 Efficiency: 96.7%

Spill:
 Lumens: 582.4
 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	2	2	1	1	2	2	2
62.5°	0	1	0	1	2	3	2	2	3	3	4
60°	0	1	0	2	3	3	3	3	4	6	6
57.5°	0	1	1	2	3	4	5	5	7	9	11
55°	0	1	1	3	4	5	7	7	10	13	17
52.5°	0	1	1	3	5	6	9	11	13	20	25
50°	0	1	2	3	6	9	12	15	18	28	37
47.5°	0	1	2	4	7	11	15	20	27	37	51
45°	0	1	2	5	8	13	19	25	36	51	66
42.5°	0	1	3	5	9	16	24	32	46	66	89
40°	0	1	3	6	10	18	29	41	58	80	113
37.5°	0	1	4	7	12	21	34	50	71	98	138
35°	0	1	4	8	14	24	39	59	85	120	164
32.5°	0	1	4	9	16	29	45	68	99	140	191
30°	0	1	5	10	18	33	52	77	113	160	217
27.5°	0	1	5	11	20	37	59	89	128	179	242
25°	0	1	5	12	23	41	66	100	144	199	266
22.5°	0	1	6	12	25	45	73	111	159	219	294
20°	0	2	6	13	27	49	80	121	174	238	321
17.5°	0	2	6	14	29	53	85	131	187	256	346
15°	0	2	7	15	31	56	91	140	200	272	368
12.5°	0	2	7	16	33	60	96	147	210	287	388
10°	0	2	7	16	34	63	100	153	217	297	405
7.5°	0	2	7	17	37	65	104	158	224	305	417
5°	0	2	8	18	38	68	109	165	232	314	426
2.5°	0	2	8	18	39	70	111	167	234	317	435
0°	0	2	8	19	40	72	114	170	237	319	439
-2.5°	0	2	8	20	41	74	116	172	239	322	442
-5°	0	2	8	20	42	75	117	173	241	324	440
-7.5°	0	2	8	21	43	75	117	171	238	320	437
-10°	0	2	9	21	43	76	117	170	236	318	432
-12.5°	0	2	8	21	43	76	116	168	234	314	425
-15°	0	2	8	21	43	75	115	166	230	308	416
-17.5°	0	2	8	21	42	75	114	163	225	301	404
-20°	0	2	8	21	42	74	112	159	219	293	389



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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	2	8	20	41	72	109	155	212	282	372
-25°	0	2	8	20	40	70	105	149	204	271	352
-27.5°	0	2	8	20	39	67	101	143	195	258	337
-30°	0	2	8	19	38	64	97	136	187	247	321
-32.5°	0	2	8	18	36	60	92	130	178	235	302
-35°	0	2	7	18	34	57	87	124	168	221	282
-37.5°	0	2	7	17	32	53	82	117	158	207	263
-40°	0	2	7	16	30	50	77	109	147	193	245
-42.5°	0	2	7	14	28	47	72	101	136	179	225
-45°	0	2	6	13	26	44	66	93	126	163	205
-47.5°	0	2	6	12	24	40	59	85	115	148	187
-50°	0	2	5	11	22	36	55	78	103	134	168
-52.5°	0	2	5	10	20	32	50	70	93	119	150
-55°	0	2	5	10	18	29	45	62	83	105	132
-57.5°	0	2	4	9	15	26	39	55	72	92	115
-60°	0	1	4	8	13	23	34	48	62	80	99
-62.5°	0	1	3	7	12	20	30	41	54	67	84
-65°	0	1	3	6	11	17	26	34	45	56	69
-67.5°	0	1	3	5	9	14	21	29	36	46	57
-70°	0	1	3	4	8	12	17	24	30	36	45
-72.5°	0	1	2	4	6	10	14	18	24	29	34
-75°	0	1	2	3	5	8	11	14	17	22	26
-77.5°	0	1	2	3	4	6	8	11	13	15	18
-80°	0	1	1	2	3	4	5	8	10	12	13
-82.5°	0	0	1	2	2	3	4	5	6	8	9
-85°	0	0	1	1	2	2	3	3	4	5	6
-87.5°	0	0	0	1	1	1	1	2	2	2	3
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: NHRS50UBZ730-VS

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	2	2	1	1	2	1	1	2	2
62.5°	2	3	4	4	4	3	4	5	5	4	4
60°	5	5	8	9	8	8	9	12	11	8	12
57.5°	10	11	15	18	19	15	22	23	26	24	28
55°	18	19	26	33	35	35	41	51	53	58	61
52.5°	30	32	44	53	61	66	76	94	111	116	126
50°	44	55	66	82	96	111	134	166	202	222	249
47.5°	65	80	97	117	143	179	218	286	334	414	482
45°	89	110	131	165	208	267	356	438	556	675	859
42.5°	117	144	178	216	297	399	516	671	838	1077	1307
40°	146	179	229	303	405	561	751	952	1238	1566	1858
37.5°	178	227	288	390	563	771	1020	1359	1733	2169	2460
35°	211	275	367	505	725	1021	1390	1797	2259	2781	3150
32.5°	251	327	445	639	927	1304	1791	2262	2798	3360	3818
30°	292	392	533	768	1147	1639	2188	2711	3330	3902	4369
27.5°	328	457	646	946	1381	1955	2547	3185	3846	4453	4942
25°	362	512	753	1138	1656	2272	2916	3621	4362	5011	5561
22.5°	401	562	841	1326	1913	2587	3297	4052	4824	5567	6178
20°	443	635	953	1476	2141	2894	3651	4458	5247	5988	6683
17.5°	481	701	1072	1635	2341	3158	3978	4873	5632	6359	7021
15°	515	760	1174	1772	2521	3358	4227	5141	5959	6668	7304
12.5°	546	812	1259	1888	2675	3527	4416	5313	6156	6895	7536
10°	573	855	1328	1981	2801	3664	4561	5442	6294	7055	7740
7.5°	593	891	1381	2053	2899	3769	4664	5529	6406	7199	7914
5°	610	918	1425	2127	2978	3852	4732	5574	6485	7318	8054
2.5°	624	941	1463	2196	3047	3935	4805	5672	6585	7450	8175
0°	630	949	1471	2221	3058	3953	4807	5697	6605	7505	8208
-2.5°	633	954	1482	2230	3074	3961	4831	5705	6634	7488	8184
-5°	628	943	1464	2194	3034	3906	4784	5639	6581	7411	8103
-7.5°	621	927	1438	2152	2997	3877	4769	5640	6553	7371	8036
-10°	609	910	1409	2117	2959	3841	4730	5604	6488	7298	7951
-12.5°	597	888	1366	2055	2888	3771	4657	5529	6392	7197	7849
-15°	580	856	1306	1963	2786	3666	4549	5417	6262	7059	7717
-17.5°	558	813	1228	1843	2650	3528	4404	5291	6091	6874	7525
-20°	531	759	1134	1692	2484	3345	4210	5056	5880	6657	7327



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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°	499	693	1041	1564	2284	3114	3976	4819	5633	6423	7060
-25°	470	652	961	1415	2054	2841	3706	4546	5347	6076	6716
-27.5°	445	607	860	1245	1797	2539	3382	4220	4967	5693	6355
-30°	418	553	750	1072	1577	2236	3006	3798	4526	5243	5923
-32.5°	386	499	670	943	1348	1906	2570	3308	4033	4729	5436
-35°	356	457	601	806	1118	1596	2155	2779	3496	4169	4765
-37.5°	331	416	527	691	947	1288	1758	2292	2900	3570	4076
-40°	304	372	472	606	775	1029	1399	1824	2334	2843	3388
-42.5°	280	342	421	516	653	838	1071	1438	1797	2198	2632
-45°	255	310	371	453	549	674	863	1070	1357	1629	1976
-47.5°	231	279	335	391	466	560	673	834	979	1200	1408
-50°	206	251	296	344	399	465	551	637	751	862	1002
-52.5°	184	222	262	301	344	394	449	510	579	646	735
-55°	161	195	228	263	298	336	375	420	457	511	557
-57.5°	141	168	197	227	257	287	319	348	383	413	444
-60°	121	144	168	194	219	246	270	296	321	342	367
-62.5°	102	121	141	163	185	206	228	249	272	288	305
-65°	85	100	116	134	154	170	188	205	223	238	251
-67.5°	68	81	94	107	123	136	149	164	178	190	201
-70°	54	62	73	84	94	104	116	126	136	146	155
-72.5°	41	48	55	62	70	78	86	93	101	109	116
-75°	31	35	40	45	50	55	59	65	71	76	82
-77.5°	22	25	28	31	33	37	41	44	47	49	52
-80°	15	16	19	21	23	25	27	28	29	31	34
-82.5°	11	12	13	14	16	17	18	20	21	23	24
-85°	7	8	10	11	12	13	14	15	16	17	17
-87.5°	4	4	5	6	6	7	8	8	9	10	11
-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°	4	4	4	5	5	5	5	5	6	6	6
60°	13	11	10	11	11	11	12	12	12	12	12
57.5°	31	27	23	31	31	25	27	32	31	26	26
55°	69	74	68	84	94	91	87	106	115	115	113
52.5°	140	176	186	193	216	234	249	268	283	293	309
50°	314	358	373	345	440	485	452	492	528	512	503
47.5°	603	662	724	797	875	926	925	930	994	1031	1056
45°	1003	1116	1227	1358	1460	1507	1574	1692	1717	1761	1803
42.5°	1467	1593	1753	1931	1988	2093	2184	2241	2314	2348	2362
40°	2009	2109	2442	2602	2610	2672	2855	2803	2824	2905	2822
37.5°	2683	2978	3309	3464	3556	3729	3801	3821	3823	3831	3833
35°	3454	3833	4300	4429	4588	4752	4837	4848	4922	4939	4938
32.5°	4150	4575	4977	5219	5376	5484	5619	5611	5620	5633	5625
30°	4742	5214	5592	5819	5898	6040	6145	6157	6125	6087	6063
27.5°	5395	5835	6214	6368	6425	6596	6707	6631	6652	6489	6495
25°	6055	6499	6838	7051	7174	7377	7474	7434	7438	7305	7224
22.5°	6677	7102	7489	7815	8004	8196	8345	8344	8373	8277	8220
20°	7249	7683	8061	8427	8679	8836	8952	8956	8944	8860	8800
17.5°	7631	8157	8533	8862	9106	9223	9277	9302	9253	9194	9125
15°	7916	8460	8890	9159	9344	9465	9525	9527	9506	9454	9381
12.5°	8159	8701	9107	9373	9559	9675	9736	9755	9742	9695	9624
10°	8368	8889	9264	9535	9737	9876	9958	9995	9973	9921	9856
7.5°	8532	9014	9391	9685	9911	10060	10151	10195	10189	10133	10070
5°	8653	9100	9488	9795	10034	10205	10315	10368	10351	10303	10241
2.5°	8750	9181	9585	9887	10135	10309	10416	10461	10443	10386	10312
0°	8771	9240	9640	9969	10235	10419	10528	10564	10538	10462	10370
-2.5°	8730	9180	9578	9888	10148	10316	10420	10463	10439	10373	10296
-5°	8640	9080	9463	9776	10025	10197	10301	10353	10339	10287	10227
-7.5°	8554	8978	9343	9645	9881	10041	10133	10181	10182	10116	10052
-10°	8452	8857	9202	9484	9700	9853	9941	9976	9949	9900	9843
-12.5°	8332	8720	9045	9313	9512	9647	9718	9741	9732	9693	9618
-15°	8191	8567	8875	9123	9313	9438	9500	9529	9518	9464	9389
-17.5°	8020	8398	8687	8926	9122	9234	9294	9322	9287	9224	9158
-20°	7828	8214	8481	8712	8891	9007	9075	9082	9044	8971	8886



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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°	7553	7950	8265	8474	8629	8746	8805	8802	8769	8684	8590
-25°	7241	7675	7983	8187	8348	8462	8489	8490	8435	8349	8268
-27.5°	6883	7300	7621	7853	8027	8102	8134	8141	8063	7974	7911
-30°	6491	6858	7183	7460	7605	7687	7727	7704	7642	7576	7526
-32.5°	5934	6366	6700	6957	7111	7200	7277	7216	7155	7126	7094
-35°	5310	5753	6154	6352	6518	6631	6678	6656	6608	6619	6597
-37.5°	4592	5063	5412	5662	5828	5963	6013	6013	6014	6022	6007
-40°	3842	4296	4607	4868	5053	5183	5245	5276	5322	5336	5319
-42.5°	3067	3444	3756	4006	4210	4340	4407	4433	4521	4561	4566
-45°	2316	2625	2880	3120	3305	3434	3519	3623	3670	3714	3745
-47.5°	1665	1881	2097	2276	2434	2563	2622	2698	2804	2858	2897
-50°	1155	1294	1455	1566	1714	1817	1858	1946	2032	2081	2123
-52.5°	815	917	990	1062	1175	1244	1274	1347	1402	1432	1466
-55°	614	670	706	769	822	854	882	935	964	970	989
-57.5°	483	513	542	581	609	625	652	681	699	707	719
-60°	389	410	433	456	475	488	509	525	536	543	551
-62.5°	320	336	353	367	379	392	407	419	428	435	440
-65°	263	275	287	298	307	318	328	337	344	351	355
-67.5°	212	221	230	239	247	255	262	269	274	279	282
-70°	164	172	178	184	190	196	203	209	213	216	219
-72.5°	122	127	132	138	142	146	151	156	159	161	163
-75°	86	91	94	98	101	104	108	111	114	115	115
-77.5°	55	58	62	65	67	69	70	72	73	74	74
-80°	36	38	40	42	43	44	45	46	46	47	47
-82.5°	25	26	27	29	30	31	32	33	33	33	34
-85°	18	19	20	21	22	23	24	25	26	26	26
-87.5°	12	13	14	15	16	17	18	19	20	20	20
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731765
 CATALOG NUMBER: NHRS50UBZ730-VS

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°	6	6	6	6	6	6	6	6	6	6	5
60°	13	13	13	13	13	13	13	12	12	12	12
57.5°	26	25	24	23	24	25	26	26	26	31	32
55°	104	88	80	75	80	88	104	113	115	115	106
52.5°	324	334	347	346	347	334	324	309	293	283	268
50°	509	505	513	523	513	505	509	503	512	528	492
47.5°	1048	989	959	954	959	989	1048	1056	1031	994	930
45°	1852	1887	1948	1970	1948	1887	1852	1803	1761	1717	1692
42.5°	2390	2397	2415	2429	2415	2397	2390	2362	2348	2314	2241
40°	2816	2798	2785	2787	2785	2798	2816	2822	2905	2824	2803
37.5°	3875	3835	3776	3782	3776	3835	3875	3833	3831	3823	3821
35°	4959	4986	5031	5013	5031	4986	4959	4938	4939	4922	4848
32.5°	5612	5615	5616	5609	5616	5615	5612	5625	5633	5620	5611
30°	6014	5987	5944	5962	5944	5987	6014	6063	6087	6125	6157
27.5°	6404	6349	6287	6294	6287	6349	6404	6495	6489	6652	6631
25°	7199	7147	7043	7063	7043	7147	7199	7224	7305	7438	7434
22.5°	8140	8132	8138	8139	8138	8132	8140	8220	8277	8373	8344
20°	8721	8662	8638	8663	8638	8662	8721	8800	8860	8944	8956
17.5°	9037	8996	8987	9006	8987	8996	9037	9125	9194	9253	9302
15°	9307	9270	9261	9279	9261	9270	9307	9381	9454	9506	9527
12.5°	9554	9501	9492	9540	9492	9501	9554	9624	9695	9742	9755
10°	9790	9714	9702	9749	9702	9714	9790	9856	9921	9973	9995
7.5°	9995	9909	9885	9957	9885	9909	9995	10070	10133	10189	10195
5°	10148	10062	9987	10087	9987	10062	10148	10241	10303	10351	10368
2.5°	10204	10140	10087	10122	10087	10140	10204	10312	10386	10443	10461
0°	10215	10123	10103	10076	10103	10123	10215	10370	10462	10538	10564
-2.5°	10201	10131	10089	10065	10089	10131	10201	10296	10373	10439	10463
-5°	10123	10059	9982	10014	9982	10059	10123	10227	10287	10339	10353
-7.5°	9989	9887	9858	9890	9858	9887	9989	10052	10116	10182	10181
-10°	9760	9684	9667	9683	9667	9684	9760	9843	9900	9949	9976
-12.5°	9540	9485	9467	9450	9467	9485	9540	9618	9693	9732	9741
-15°	9317	9268	9245	9235	9245	9268	9317	9389	9464	9518	9529
-17.5°	9075	9021	8985	8970	8985	9021	9075	9158	9224	9287	9322
-20°	8809	8737	8696	8668	8696	8737	8809	8886	8971	9044	9082



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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°	8516	8445	8398	8374	8398	8445	8516	8590	8684	8769	8802
-25°	8195	8137	8078	8068	8078	8137	8195	8268	8349	8435	8490
-27.5°	7837	7798	7743	7713	7743	7798	7837	7911	7974	8063	8141
-30°	7453	7430	7393	7355	7393	7430	7453	7526	7576	7642	7704
-32.5°	7051	7032	7004	6980	7004	7032	7051	7094	7126	7155	7216
-35°	6581	6569	6550	6509	6550	6569	6581	6597	6619	6608	6656
-37.5°	6018	6015	6008	5981	6008	6015	6018	6007	6022	6014	6013
-40°	5350	5354	5359	5334	5359	5354	5350	5319	5336	5322	5276
-42.5°	4606	4610	4617	4585	4617	4610	4606	4566	4561	4521	4433
-45°	3790	3792	3807	3796	3807	3792	3790	3745	3714	3670	3623
-47.5°	2939	2948	2962	2938	2962	2948	2939	2897	2858	2804	2698
-50°	2152	2152	2164	2146	2164	2152	2152	2123	2081	2032	1946
-52.5°	1482	1475	1484	1479	1484	1475	1482	1466	1432	1402	1347
-55°	998	997	1001	996	1001	997	998	989	970	964	935
-57.5°	724	723	726	724	726	723	724	719	707	699	681
-60°	556	557	560	558	560	557	556	551	543	536	525
-62.5°	443	444	446	445	446	444	443	440	435	428	419
-65°	358	359	361	360	361	359	358	355	351	344	337
-67.5°	285	289	288	286	288	289	285	282	279	274	269
-70°	220	222	221	219	221	222	220	219	216	213	209
-72.5°	163	164	164	163	164	164	163	163	161	159	156
-75°	115	115	114	112	114	115	115	115	115	114	111
-77.5°	74	74	73	72	73	74	74	74	74	73	72
-80°	48	48	47	46	47	48	48	47	47	46	46
-82.5°	34	34	34	34	34	34	34	34	33	33	33
-85°	27	27	27	26	27	27	27	26	26	26	25
-87.5°	21	21	21	21	21	21	21	20	20	20	19
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731765
 CATALOG NUMBER: NHRS50UBZ730-VS

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	2	2	1	1
62.5°	5	5	5	5	4	4	4	4	4	5	5
60°	12	11	11	11	10	11	13	12	8	11	12
57.5°	27	25	31	31	23	27	31	28	24	26	23
55°	87	91	94	84	68	74	69	61	58	53	51
52.5°	249	234	216	193	186	176	140	126	116	111	94
50°	452	485	440	345	373	358	314	249	222	202	166
47.5°	925	926	875	797	724	662	603	482	414	334	286
45°	1574	1507	1460	1358	1227	1116	1003	859	675	556	438
42.5°	2184	2093	1988	1931	1753	1593	1467	1307	1077	838	671
40°	2855	2672	2610	2602	2442	2109	2009	1858	1566	1238	952
37.5°	3801	3729	3556	3464	3309	2978	2683	2460	2169	1733	1359
35°	4837	4752	4588	4429	4300	3833	3454	3150	2781	2259	1797
32.5°	5619	5484	5376	5219	4977	4575	4150	3818	3360	2798	2262
30°	6145	6040	5898	5819	5592	5214	4742	4369	3902	3330	2711
27.5°	6707	6596	6425	6368	6214	5835	5395	4942	4453	3846	3185
25°	7474	7377	7174	7051	6838	6499	6055	5561	5011	4362	3621
22.5°	8345	8196	8004	7815	7489	7102	6677	6178	5567	4824	4052
20°	8952	8836	8679	8427	8061	7683	7249	6683	5988	5247	4458
17.5°	9277	9223	9106	8862	8533	8157	7631	7021	6359	5632	4873
15°	9525	9465	9344	9159	8890	8460	7916	7304	6668	5959	5141
12.5°	9736	9675	9559	9373	9107	8701	8159	7536	6895	6156	5313
10°	9958	9876	9737	9535	9264	8889	8368	7740	7055	6294	5442
7.5°	10151	10060	9911	9685	9391	9014	8532	7914	7199	6406	5529
5°	10315	10205	10034	9795	9488	9100	8653	8054	7318	6485	5574
2.5°	10416	10309	10135	9887	9585	9181	8750	8175	7450	6585	5672
0°	10528	10419	10235	9969	9640	9240	8771	8208	7505	6605	5697
-2.5°	10420	10316	10148	9888	9578	9180	8730	8184	7488	6634	5705
-5°	10301	10197	10025	9776	9463	9080	8640	8103	7411	6581	5639
-7.5°	10133	10041	9881	9645	9343	8978	8554	8036	7371	6553	5640
-10°	9941	9853	9700	9484	9202	8857	8452	7951	7298	6488	5604
-12.5°	9718	9647	9512	9313	9045	8720	8332	7849	7197	6392	5529
-15°	9500	9438	9313	9123	8875	8567	8191	7717	7059	6262	5417
-17.5°	9294	9234	9122	8926	8687	8398	8020	7525	6874	6091	5291
-20°	9075	9007	8891	8712	8481	8214	7828	7327	6657	5880	5056



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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°	8805	8746	8629	8474	8265	7950	7553	7060	6423	5633	4819
-25°	8489	8462	8348	8187	7983	7675	7241	6716	6076	5347	4546
-27.5°	8134	8102	8027	7853	7621	7300	6883	6355	5693	4967	4220
-30°	7727	7687	7605	7460	7183	6858	6491	5923	5243	4526	3798
-32.5°	7277	7200	7111	6957	6700	6366	5934	5436	4729	4033	3308
-35°	6678	6631	6518	6352	6154	5753	5310	4765	4169	3496	2779
-37.5°	6013	5963	5828	5662	5412	5063	4592	4076	3570	2900	2292
-40°	5245	5183	5053	4868	4607	4296	3842	3388	2843	2334	1824
-42.5°	4407	4340	4210	4006	3756	3444	3067	2632	2198	1797	1438
-45°	3519	3434	3305	3120	2880	2625	2316	1976	1629	1357	1070
-47.5°	2622	2563	2434	2276	2097	1881	1665	1408	1200	979	834
-50°	1858	1817	1714	1566	1455	1294	1155	1002	862	751	637
-52.5°	1274	1244	1175	1062	990	917	815	735	646	579	510
-55°	882	854	822	769	706	670	614	557	511	457	420
-57.5°	652	625	609	581	542	513	483	444	413	383	348
-60°	509	488	475	456	433	410	389	367	342	321	296
-62.5°	407	392	379	367	353	336	320	305	288	272	249
-65°	328	318	307	298	287	275	263	251	238	223	205
-67.5°	262	255	247	239	230	221	212	201	190	178	164
-70°	203	196	190	184	178	172	164	155	146	136	126
-72.5°	151	146	142	138	132	127	122	116	109	101	93
-75°	108	104	101	98	94	91	86	82	76	71	65
-77.5°	70	69	67	65	62	58	55	52	49	47	44
-80°	45	44	43	42	40	38	36	34	31	29	28
-82.5°	32	31	30	29	27	26	25	24	23	21	20
-85°	24	23	22	21	20	19	18	17	17	16	15
-87.5°	18	17	16	15	14	13	12	11	10	9	8
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731765
 CATALOG NUMBER: NHRS50UBZ730-VS

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°	2	1	1	2	2	1	1	2	2	2	1
62.5°	4	3	4	4	4	3	2	4	3	3	2
60°	9	8	8	9	8	5	5	6	6	4	3
57.5°	22	15	19	18	15	11	10	11	9	7	5
55°	41	35	35	33	26	19	18	17	13	10	7
52.5°	76	66	61	53	44	32	30	25	20	13	11
50°	134	111	96	82	66	55	44	37	28	18	15
47.5°	218	179	143	117	97	80	65	51	37	27	20
45°	356	267	208	165	131	110	89	66	51	36	25
42.5°	516	399	297	216	178	144	117	89	66	46	32
40°	751	561	405	303	229	179	146	113	80	58	41
37.5°	1020	771	563	390	288	227	178	138	98	71	50
35°	1390	1021	725	505	367	275	211	164	120	85	59
32.5°	1791	1304	927	639	445	327	251	191	140	99	68
30°	2188	1639	1147	768	533	392	292	217	160	113	77
27.5°	2547	1955	1381	946	646	457	328	242	179	128	89
25°	2916	2272	1656	1138	753	512	362	266	199	144	100
22.5°	3297	2587	1913	1326	841	562	401	294	219	159	111
20°	3651	2894	2141	1476	953	635	443	321	238	174	121
17.5°	3978	3158	2341	1635	1072	701	481	346	256	187	131
15°	4227	3358	2521	1772	1174	760	515	368	272	200	140
12.5°	4416	3527	2675	1888	1259	812	546	388	287	210	147
10°	4561	3664	2801	1981	1328	855	573	405	297	217	153
7.5°	4664	3769	2899	2053	1381	891	593	417	305	224	158
5°	4732	3852	2978	2127	1425	918	610	426	314	232	165
2.5°	4805	3935	3047	2196	1463	941	624	435	317	234	167
0°	4807	3953	3058	2221	1471	949	630	439	319	237	170
-2.5°	4831	3961	3074	2230	1482	954	633	442	322	239	172
-5°	4784	3906	3034	2194	1464	943	628	440	324	241	173
-7.5°	4769	3877	2997	2152	1438	927	621	437	320	238	171
-10°	4730	3841	2959	2117	1409	910	609	432	318	236	170
-12.5°	4657	3771	2888	2055	1366	888	597	425	314	234	168
-15°	4549	3666	2786	1963	1306	856	580	416	308	230	166
-17.5°	4404	3528	2650	1843	1228	813	558	404	301	225	163
-20°	4210	3345	2484	1692	1134	759	531	389	293	219	159



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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°	3976	3114	2284	1564	1041	693	499	372	282	212	155
-25°	3706	2841	2054	1415	961	652	470	352	271	204	149
-27.5°	3382	2539	1797	1245	860	607	445	337	258	195	143
-30°	3006	2236	1577	1072	750	553	418	321	247	187	136
-32.5°	2570	1906	1348	943	670	499	386	302	235	178	130
-35°	2155	1596	1118	806	601	457	356	282	221	168	124
-37.5°	1758	1288	947	691	527	416	331	263	207	158	117
-40°	1399	1029	775	606	472	372	304	245	193	147	109
-42.5°	1071	838	653	516	421	342	280	225	179	136	101
-45°	863	674	549	453	371	310	255	205	163	126	93
-47.5°	673	560	466	391	335	279	231	187	148	115	85
-50°	551	465	399	344	296	251	206	168	134	103	78
-52.5°	449	394	344	301	262	222	184	150	119	93	70
-55°	375	336	298	263	228	195	161	132	105	83	62
-57.5°	319	287	257	227	197	168	141	115	92	72	55
-60°	270	246	219	194	168	144	121	99	80	62	48
-62.5°	228	206	185	163	141	121	102	84	67	54	41
-65°	188	170	154	134	116	100	85	69	56	45	34
-67.5°	149	136	123	107	94	81	68	57	46	36	29
-70°	116	104	94	84	73	62	54	45	36	30	24
-72.5°	86	78	70	62	55	48	41	34	29	24	18
-75°	59	55	50	45	40	35	31	26	22	17	14
-77.5°	41	37	33	31	28	25	22	18	15	13	11
-80°	27	25	23	21	19	16	15	13	12	10	8
-82.5°	18	17	16	14	13	12	11	9	8	6	5
-85°	14	13	12	11	10	8	7	6	5	4	3
-87.5°	8	7	6	6	5	4	4	3	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731765
 CATALOG NUMBER: NHRS50UBZ730-VS

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	2	2	1	0	0	0
62.5°	2	3	2	1	0	1	0
60°	3	3	3	2	0	1	0
57.5°	5	4	3	2	1	1	0
55°	7	5	4	3	1	1	0
52.5°	9	6	5	3	1	1	0
50°	12	9	6	3	2	1	0
47.5°	15	11	7	4	2	1	0
45°	19	13	8	5	2	1	0
42.5°	24	16	9	5	3	1	0
40°	29	18	10	6	3	1	0
37.5°	34	21	12	7	4	1	0
35°	39	24	14	8	4	1	0
32.5°	45	29	16	9	4	1	0
30°	52	33	18	10	5	1	0
27.5°	59	37	20	11	5	1	0
25°	66	41	23	12	5	1	0
22.5°	73	45	25	12	6	1	0
20°	80	49	27	13	6	2	0
17.5°	85	53	29	14	6	2	0
15°	91	56	31	15	7	2	0
12.5°	96	60	33	16	7	2	0
10°	100	63	34	16	7	2	0
7.5°	104	65	37	17	7	2	0
5°	109	68	38	18	8	2	0
2.5°	111	70	39	18	8	2	0
0°	114	72	40	19	8	2	0
-2.5°	116	74	41	20	8	2	0
-5°	117	75	42	20	8	2	0
-7.5°	117	75	43	21	8	2	0
-10°	117	76	43	21	9	2	0
-12.5°	116	76	43	21	8	2	0
-15°	115	75	43	21	8	2	0
-17.5°	114	75	42	21	8	2	0
-20°	112	74	42	21	8	2	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	109	72	41	20	8	2	0
-25°	105	70	40	20	8	2	0
-27.5°	101	67	39	20	8	2	0
-30°	97	64	38	19	8	2	0
-32.5°	92	60	36	18	8	2	0
-35°	87	57	34	18	7	2	0
-37.5°	82	53	32	17	7	2	0
-40°	77	50	30	16	7	2	0
-42.5°	72	47	28	14	7	2	0
-45°	66	44	26	13	6	2	0
-47.5°	59	40	24	12	6	2	0
-50°	55	36	22	11	5	2	0
-52.5°	50	32	20	10	5	2	0
-55°	45	29	18	10	5	2	0
-57.5°	39	26	15	9	4	2	0
-60°	34	23	13	8	4	1	0
-62.5°	30	20	12	7	3	1	0
-65°	26	17	11	6	3	1	0
-67.5°	21	14	9	5	3	1	0
-70°	17	12	8	4	3	1	0
-72.5°	14	10	6	4	2	1	0
-75°	11	8	5	3	2	1	0
-77.5°	8	6	4	3	2	1	0
-80°	5	4	3	2	1	1	0
-82.5°	4	3	2	2	1	0	0
-85°	3	2	2	1	1	0	0
-87.5°	1	1	1	1	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)