

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: P731764

Luminaire Tested: **NHRS50UBZ730-VS\_75**

Issue Date: 09/15/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P731764  
Test Lab: INNOVATION CENTER  
Issue Date: 09/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NHRS50UBZ730-VS\_75  
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 3000K WITH VISOR @ 75% output  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

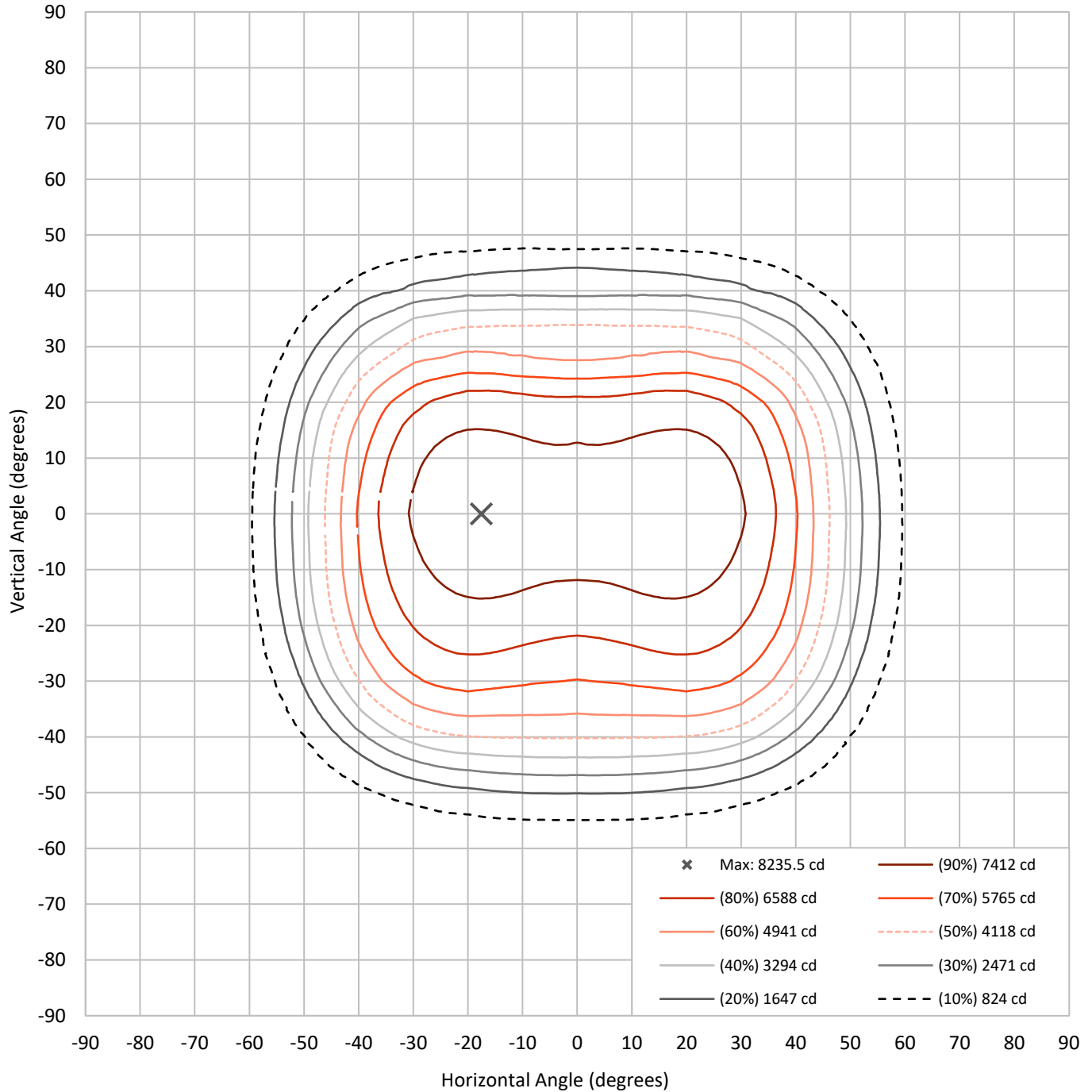
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	13887.9 lumens	Max Intensity:	8235.5 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	119.7 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:	10919.9 lumens	Field Lumens:	13433.9 lumens
Beam Efficiency:	78.6%	Field Efficiency:	96.7%
Input Watts (W):	116		
Input Voltage (V):	120		
Input Current (A <sub>in</sub> ):	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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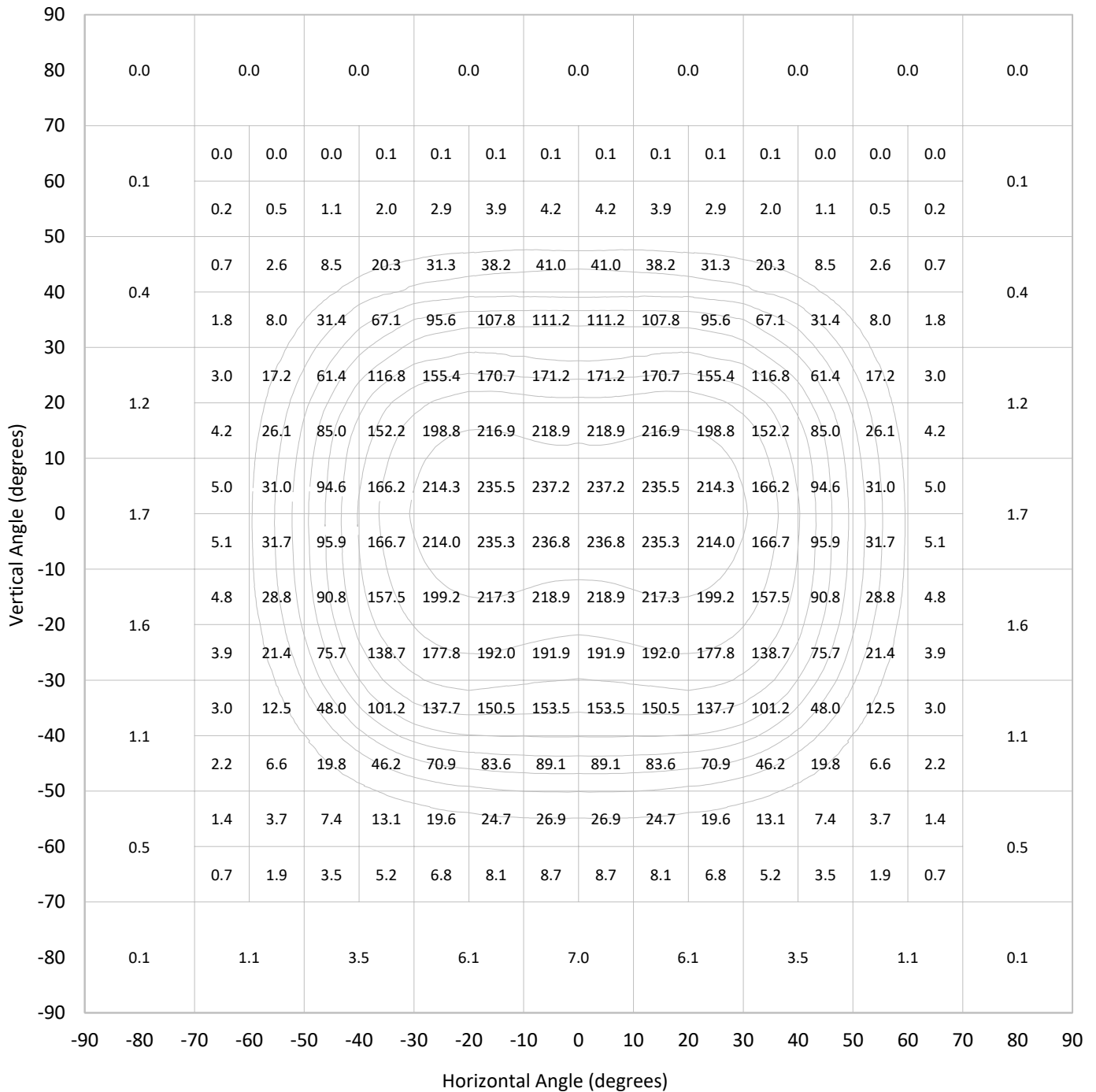
### Iso-Candela Plot





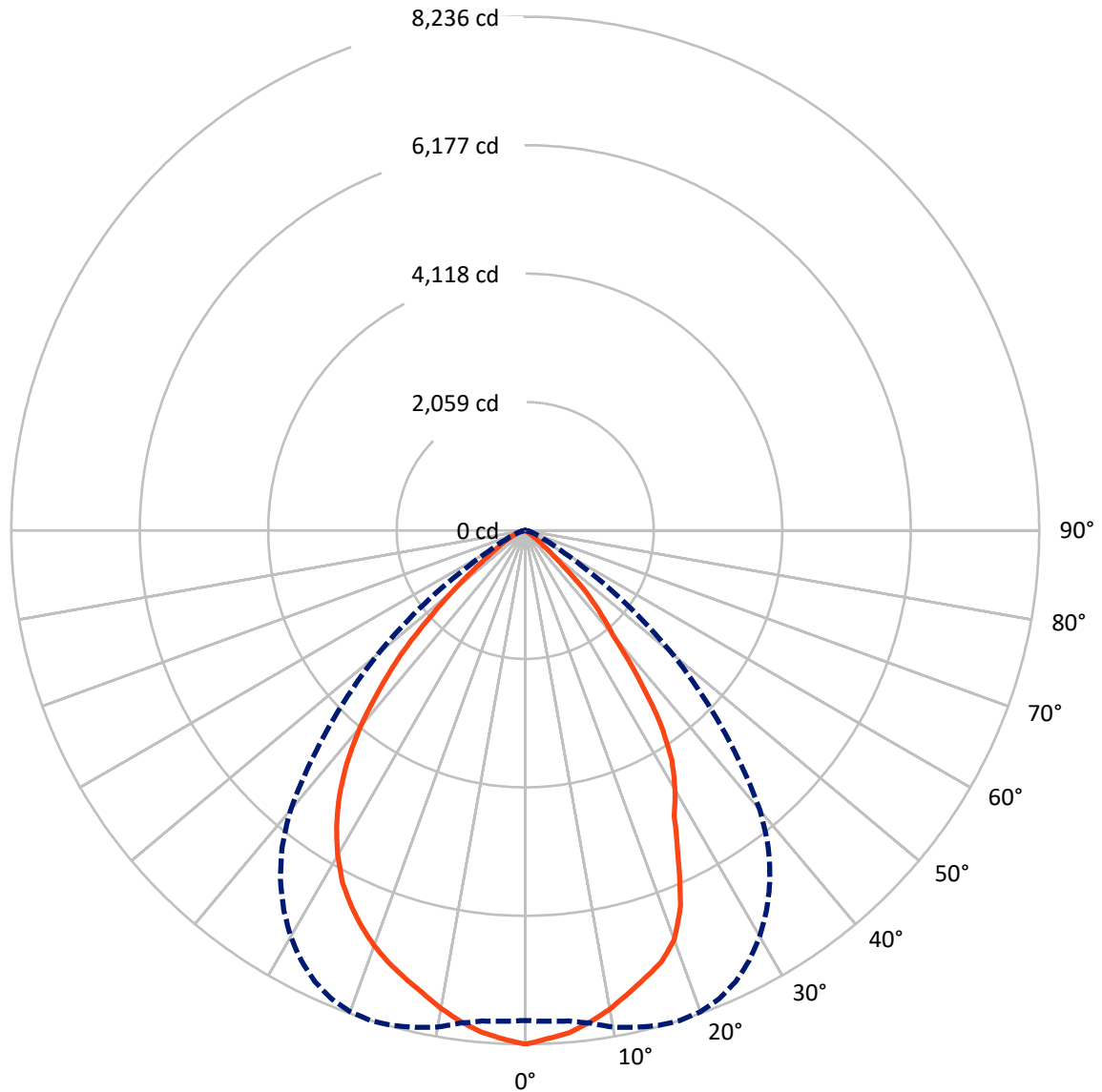
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### Lumen Table



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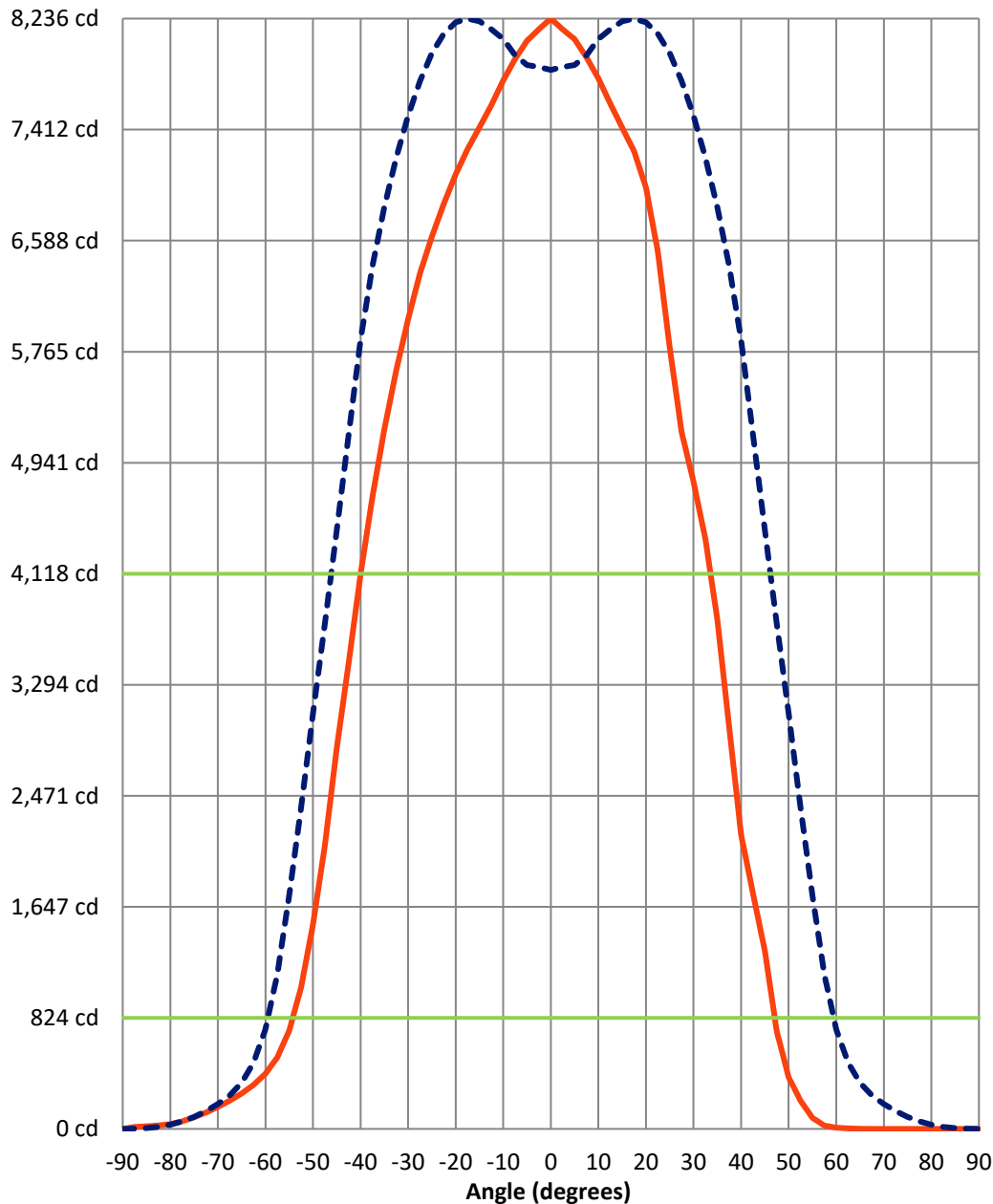
### Luminous Intensity Polar Plot



— 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: 10919.9  
 Efficiency: 78.6%

**Field:**  
 H Angle: 119°  
 V Angle: 101.3°  
 Lumens: 13433.9  
 Efficiency: 96.7%

**Spill:**  
 Lumens: 454  
 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	2	2	2	2	2	3
60°	0	1	0	2	2	2	2	2	3	5	5
57.5°	0	1	1	2	2	3	4	4	6	7	9
55°	0	1	1	2	3	4	6	6	8	10	13
52.5°	0	1	1	2	4	5	7	9	10	16	20
50°	0	1	2	2	5	7	9	12	14	22	29
47.5°	0	1	2	3	6	9	12	16	21	29	40
45°	0	1	2	4	6	10	15	20	28	40	52
42.5°	0	1	2	4	7	13	19	25	36	52	69
40°	0	1	2	5	8	14	23	32	45	62	88
37.5°	0	1	3	6	9	16	27	39	55	76	108
35°	0	1	3	6	11	19	30	46	66	94	128
32.5°	0	1	3	7	13	23	35	53	77	109	149
30°	0	1	4	8	14	26	41	60	88	125	169
27.5°	0	1	4	9	16	29	46	69	100	140	189
25°	0	1	4	9	18	32	52	78	112	155	207
22.5°	0	1	5	9	20	35	57	87	124	171	229
20°	0	2	5	10	21	38	62	94	136	186	250
17.5°	0	2	5	11	23	41	66	102	146	200	270
15°	0	2	6	12	24	44	71	109	156	212	287
12.5°	0	2	6	13	26	47	75	115	164	224	303
10°	0	2	6	13	27	49	78	119	169	232	316
7.5°	0	2	6	13	29	51	81	123	175	238	325
5°	0	2	6	14	30	53	85	129	181	245	332
2.5°	0	2	6	14	30	55	87	130	182	247	339
0°	0	2	6	15	31	56	89	133	185	249	342
-2.5°	0	2	6	16	32	58	90	134	186	251	345
-5°	0	2	6	16	33	59	91	135	188	253	343
-7.5°	0	2	6	16	34	59	91	133	186	250	341
-10°	0	2	7	16	34	59	91	133	184	248	337
-12.5°	0	2	6	16	34	59	90	131	182	245	331
-15°	0	2	6	16	34	59	90	129	179	240	324
-17.5°	0	2	6	16	33	59	89	127	175	235	315
-20°	0	2	6	16	33	58	87	124	171	228	303



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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	6	16	32	56	85	121	165	220	290
-25°	0	2	6	16	31	55	82	116	159	211	274
-27.5°	0	2	6	16	30	52	79	112	152	201	263
-30°	0	2	6	15	30	50	76	106	146	193	250
-32.5°	0	2	6	14	28	47	72	101	139	183	235
-35°	0	2	6	14	27	44	68	97	131	172	220
-37.5°	0	2	6	13	25	41	64	91	123	161	205
-40°	0	2	6	13	23	39	60	85	115	151	191
-42.5°	0	2	6	11	22	37	56	79	106	140	175
-45°	0	2	5	10	20	34	52	73	98	127	160
-47.5°	0	2	5	9	19	31	46	66	90	115	146
-50°	0	2	4	9	17	28	43	61	80	105	131
-52.5°	0	2	4	8	16	25	39	55	73	93	117
-55°	0	2	4	8	14	23	35	48	65	82	103
-57.5°	0	2	3	7	12	20	30	43	56	72	90
-60°	0	1	3	6	10	18	27	37	48	62	77
-62.5°	0	1	2	6	9	16	23	32	42	52	66
-65°	0	1	2	5	9	13	20	27	35	44	54
-67.5°	0	1	2	4	7	11	16	23	28	36	44
-70°	0	1	2	3	6	9	13	19	23	28	35
-72.5°	0	1	2	3	5	8	11	14	19	23	27
-75°	0	1	2	2	4	6	9	11	13	17	20
-77.5°	0	1	2	2	3	5	6	9	10	12	14
-80°	0	1	1	2	2	3	4	6	8	9	10
-82.5°	0	0	1	2	2	2	3	4	5	6	7
-85°	0	0	1	1	2	2	2	2	3	4	5
-87.5°	0	0	0	1	1	1	1	2	2	2	2
-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	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	2	3	3	3	2	3	4	4	3	3
60°	4	4	6	7	6	6	7	9	9	6	9
57.5°	8	9	12	14	15	12	17	18	20	19	22
55°	14	15	20	26	27	27	32	40	41	45	48
52.5°	23	25	34	41	48	52	59	73	87	90	98
50°	34	43	52	64	75	87	105	129	158	173	194
47.5°	51	62	76	91	112	140	170	223	260	323	376
45°	69	86	102	129	162	208	278	342	433	526	670
42.5°	91	112	139	168	232	311	402	523	653	840	1019
40°	114	140	179	236	316	437	586	742	965	1221	1449
37.5°	139	177	225	304	439	601	795	1060	1351	1691	1918
35°	165	214	286	394	565	796	1084	1401	1761	2168	2456
32.5°	196	255	347	498	723	1017	1396	1763	2181	2619	2977
30°	228	306	416	599	894	1278	1706	2114	2596	3042	3406
27.5°	256	356	504	738	1077	1524	1986	2483	2998	3472	3853
25°	282	399	587	887	1291	1771	2273	2823	3401	3907	4335
22.5°	313	438	656	1034	1491	2017	2570	3159	3761	4340	4816
20°	345	495	743	1151	1669	2256	2846	3475	4091	4668	5210
17.5°	375	547	836	1275	1825	2462	3101	3799	4391	4957	5474
15°	402	593	915	1381	1965	2618	3295	4008	4646	5198	5694
12.5°	426	633	982	1472	2085	2750	3443	4142	4799	5375	5875
10°	447	667	1035	1544	2184	2856	3556	4243	4907	5500	6034
7.5°	462	695	1077	1601	2260	2938	3636	4310	4994	5612	6170
5°	476	716	1111	1658	2322	3003	3689	4345	5056	5705	6279
2.5°	487	734	1141	1712	2375	3068	3746	4422	5134	5808	6373
0°	491	740	1147	1732	2384	3082	3748	4441	5149	5851	6399
-2.5°	494	744	1155	1739	2396	3088	3766	4448	5172	5838	6380
-5°	490	735	1141	1710	2365	3045	3730	4396	5130	5778	6317
-7.5°	484	723	1121	1678	2336	3022	3718	4397	5109	5746	6265
-10°	475	709	1098	1650	2307	2994	3687	4369	5058	5689	6199
-12.5°	465	692	1065	1602	2251	2940	3631	4310	4983	5611	6119
-15°	452	667	1018	1530	2172	2858	3546	4223	4882	5503	6016
-17.5°	435	634	957	1437	2066	2750	3433	4125	4748	5359	5866
-20°	414	592	884	1319	1937	2608	3282	3942	4584	5190	5712



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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°	389	540	812	1219	1781	2428	3100	3757	4391	5007	5504
-25°	366	508	749	1103	1601	2215	2889	3544	4168	4737	5236
-27.5°	347	473	670	971	1401	1979	2637	3290	3872	4438	4954
-30°	326	431	585	836	1229	1743	2343	2961	3528	4087	4618
-32.5°	301	389	522	735	1051	1486	2004	2579	3144	3687	4238
-35°	278	356	469	628	872	1244	1680	2167	2725	3250	3715
-37.5°	258	324	411	539	738	1004	1371	1787	2261	2783	3178
-40°	237	290	368	472	604	802	1091	1422	1820	2216	2641
-42.5°	218	267	328	402	509	653	835	1121	1401	1714	2052
-45°	199	242	289	353	428	525	673	834	1058	1270	1541
-47.5°	180	218	261	305	363	437	525	650	763	936	1098
-50°	161	196	231	268	311	363	430	497	586	672	781
-52.5°	143	173	204	235	268	307	350	398	451	504	573
-55°	126	152	178	205	232	262	292	327	356	398	434
-57.5°	110	131	154	177	200	224	249	271	299	322	346
-60°	94	112	131	151	171	192	211	231	250	267	286
-62.5°	80	94	110	127	144	161	178	194	212	225	238
-65°	66	78	90	105	120	133	147	160	174	186	196
-67.5°	53	63	73	83	96	106	116	128	139	148	157
-70°	42	48	57	66	73	81	90	98	106	114	121
-72.5°	32	37	43	48	55	61	67	73	79	85	90
-75°	24	27	31	35	39	43	46	51	55	59	64
-77.5°	17	20	22	24	26	29	32	34	37	38	41
-80°	12	13	15	16	18	20	21	22	23	24	27
-82.5°	9	9	10	11	13	13	14	16	16	18	19
-85°	6	6	8	9	9	10	11	12	13	13	13
-87.5°	3	3	4	5	5	6	6	6	7	8	9
-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°	3	3	3	4	4	4	4	4	5	5	5
60°	10	9	8	9	9	9	9	9	9	9	9
57.5°	24	21	18	24	24	20	21	25	24	20	20
55°	54	58	53	66	73	71	68	83	90	90	88
52.5°	109	137	145	151	168	182	194	209	221	228	241
50°	245	279	291	269	343	378	352	384	412	399	392
47.5°	470	516	564	621	682	722	721	725	775	804	823
45°	782	870	957	1059	1138	1175	1227	1319	1339	1373	1406
42.5°	1144	1242	1367	1505	1550	1632	1703	1747	1804	1831	1841
40°	1566	1644	1904	2029	2035	2083	2226	2185	2202	2265	2200
37.5°	2092	2322	2580	2701	2772	2907	2963	2979	2980	2987	2988
35°	2693	2988	3352	3453	3577	3705	3771	3779	3837	3850	3850
32.5°	3235	3567	3880	4069	4191	4275	4381	4374	4381	4391	4385
30°	3697	4065	4359	4536	4598	4709	4791	4800	4775	4745	4727
27.5°	4206	4549	4844	4964	5009	5142	5229	5169	5186	5059	5063
25°	4720	5067	5331	5497	5593	5751	5827	5795	5799	5695	5632
22.5°	5205	5537	5838	6092	6240	6390	6506	6505	6528	6453	6408
20°	5651	5990	6284	6570	6766	6888	6979	6982	6973	6907	6860
17.5°	5949	6359	6652	6909	7099	7190	7232	7252	7214	7168	7114
15°	6171	6595	6931	7140	7284	7379	7426	7427	7411	7370	7313
12.5°	6361	6783	7100	7307	7452	7543	7590	7605	7595	7558	7503
10°	6524	6930	7222	7433	7591	7699	7763	7792	7775	7734	7684
7.5°	6651	7027	7321	7550	7727	7843	7914	7948	7943	7900	7850
5°	6746	7094	7397	7636	7822	7956	8041	8083	8070	8032	7984
2.5°	6821	7157	7472	7708	7901	8037	8120	8155	8141	8097	8039
0°	6838	7203	7515	7772	7979	8123	8208	8236	8215	8156	8084
-2.5°	6806	7157	7467	7709	7911	8042	8123	8157	8138	8087	8027
-5°	6736	7079	7377	7621	7815	7949	8031	8071	8060	8020	7973
-7.5°	6669	6999	7284	7519	7703	7828	7900	7937	7938	7886	7836
-10°	6589	6905	7174	7394	7562	7681	7750	7777	7756	7718	7673
-12.5°	6496	6798	7051	7260	7415	7521	7576	7594	7587	7557	7498
-15°	6386	6679	6919	7112	7260	7358	7406	7429	7420	7378	7320
-17.5°	6252	6547	6772	6959	7111	7199	7246	7267	7240	7191	7139
-20°	6103	6404	6612	6792	6931	7022	7075	7080	7051	6994	6927



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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°	5888	6198	6443	6606	6727	6818	6864	6862	6836	6770	6697
-25°	5645	5983	6223	6383	6508	6597	6618	6619	6576	6509	6446
-27.5°	5366	5691	5941	6122	6258	6316	6341	6347	6286	6216	6167
-30°	5060	5346	5600	5816	5929	5993	6024	6006	5958	5906	5867
-32.5°	4626	4963	5223	5424	5544	5613	5673	5626	5578	5555	5530
-35°	4140	4485	4798	4952	5081	5169	5206	5189	5152	5160	5143
-37.5°	3580	3947	4219	4414	4543	4649	4688	4688	4688	4695	4683
-40°	2995	3349	3592	3795	3939	4041	4089	4113	4149	4160	4147
-42.5°	2391	2685	2928	3123	3282	3383	3436	3456	3525	3556	3560
-45°	1806	2046	2245	2432	2577	2677	2743	2824	2861	2895	2920
-47.5°	1298	1466	1635	1774	1898	1998	2044	2103	2186	2228	2259
-50°	900	1009	1134	1221	1336	1417	1449	1517	1584	1622	1655
-52.5°	635	715	772	828	916	970	993	1050	1093	1116	1143
-55°	479	522	550	600	641	666	688	729	752	756	771
-57.5°	377	400	423	453	475	487	508	531	545	551	561
-60°	303	320	338	356	370	380	397	409	418	423	430
-62.5°	250	262	275	286	296	306	317	327	334	339	343
-65°	205	214	224	232	239	248	256	263	268	274	277
-67.5°	165	172	179	186	193	199	204	210	214	218	220
-70°	128	134	139	143	148	153	158	163	166	168	171
-72.5°	95	99	103	108	111	114	118	122	124	126	127
-75°	67	71	73	76	79	81	84	87	89	90	90
-77.5°	43	45	48	51	52	54	55	56	57	58	58
-80°	28	30	31	33	34	34	35	36	36	37	37
-82.5°	20	20	21	23	23	24	25	26	26	26	27
-85°	14	15	16	16	17	18	19	20	20	20	20
-87.5°	9	10	11	12	13	13	14	15	16	16	16
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731764  
 CATALOG NUMBER: NHRS50UBZ730-VS\_75

**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°	5	5	5	5	5	5	5	5	5	5	4
60°	10	10	10	10	10	10	10	9	9	9	9
57.5°	20	20	19	18	19	20	20	20	20	24	25
55°	81	69	62	59	62	69	81	88	90	90	83
52.5°	253	260	271	270	271	260	253	241	228	221	209
50°	397	394	400	408	400	394	397	392	399	412	384
47.5°	817	771	748	744	748	771	817	823	804	775	725
45°	1444	1471	1519	1536	1519	1471	1444	1406	1373	1339	1319
42.5°	1863	1869	1883	1894	1883	1869	1863	1841	1831	1804	1747
40°	2195	2181	2171	2173	2171	2181	2195	2200	2265	2202	2185
37.5°	3021	2990	2944	2948	2944	2990	3021	2988	2987	2980	2979
35°	3866	3887	3922	3908	3922	3887	3866	3850	3850	3837	3779
32.5°	4375	4377	4378	4373	4378	4377	4375	4385	4391	4381	4374
30°	4688	4667	4634	4648	4634	4667	4688	4727	4745	4775	4800
27.5°	4993	4950	4901	4907	4901	4950	4993	5063	5059	5186	5169
25°	5612	5572	5491	5506	5491	5572	5612	5632	5695	5799	5795
22.5°	6346	6340	6344	6345	6344	6340	6346	6408	6453	6528	6505
20°	6799	6753	6734	6754	6734	6753	6799	6860	6907	6973	6982
17.5°	7045	7013	7006	7021	7006	7013	7045	7114	7168	7214	7252
15°	7256	7227	7220	7234	7220	7227	7256	7313	7370	7411	7427
12.5°	7448	7407	7400	7437	7400	7407	7448	7503	7558	7595	7605
10°	7632	7573	7564	7600	7564	7573	7632	7684	7734	7775	7792
7.5°	7792	7725	7706	7762	7706	7725	7792	7850	7900	7943	7948
5°	7911	7844	7786	7864	7786	7844	7911	7984	8032	8070	8083
2.5°	7955	7905	7864	7891	7864	7905	7955	8039	8097	8141	8155
0°	7963	7892	7876	7855	7876	7892	7963	8084	8156	8215	8236
-2.5°	7953	7898	7865	7847	7865	7898	7953	8027	8087	8138	8157
-5°	7892	7842	7782	7807	7782	7842	7892	7973	8020	8060	8071
-7.5°	7787	7708	7685	7710	7685	7708	7787	7836	7886	7938	7937
-10°	7609	7550	7536	7549	7536	7550	7609	7673	7718	7756	7777
-12.5°	7437	7394	7380	7367	7380	7394	7437	7498	7557	7587	7594
-15°	7263	7225	7207	7200	7207	7225	7263	7320	7378	7420	7429
-17.5°	7075	7033	7005	6993	7005	7033	7075	7139	7191	7240	7267
-20°	6867	6811	6779	6757	6779	6811	6867	6927	6994	7051	7080



REPORT NUMBER: P731764  
 CATALOG NUMBER: NHRS50UBZ730-VS\_75

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	6639	6584	6547	6528	6547	6584	6639	6697	6770	6836	6862
-25°	6389	6344	6298	6290	6298	6344	6389	6446	6509	6576	6619
-27.5°	6110	6079	6036	6013	6036	6079	6110	6167	6216	6286	6347
-30°	5810	5792	5764	5734	5764	5792	5810	5867	5906	5958	6006
-32.5°	5497	5482	5460	5442	5460	5482	5497	5530	5555	5578	5626
-35°	5130	5121	5106	5074	5106	5121	5130	5143	5160	5152	5189
-37.5°	4692	4689	4684	4663	4684	4689	4692	4683	4695	4688	4688
-40°	4171	4174	4178	4158	4178	4174	4171	4147	4160	4149	4113
-42.5°	3591	3594	3599	3574	3599	3594	3591	3560	3556	3525	3456
-45°	2955	2956	2968	2959	2968	2956	2955	2920	2895	2861	2824
-47.5°	2291	2298	2309	2290	2309	2298	2291	2259	2228	2186	2103
-50°	1678	1678	1687	1673	1687	1678	1678	1655	1622	1584	1517
-52.5°	1155	1150	1157	1153	1157	1150	1155	1143	1116	1093	1050
-55°	778	777	780	777	780	777	778	771	756	752	729
-57.5°	564	564	566	564	566	564	564	561	551	545	531
-60°	433	434	437	435	437	434	433	430	423	418	409
-62.5°	345	346	348	347	348	346	345	343	339	334	327
-65°	279	280	281	281	281	280	279	277	274	268	263
-67.5°	222	225	225	223	225	225	222	220	218	214	210
-70°	172	173	172	171	172	173	172	171	168	166	163
-72.5°	127	128	128	127	128	128	127	127	126	124	122
-75°	90	90	89	87	89	90	90	90	90	89	87
-77.5°	58	58	57	56	57	58	58	58	58	57	56
-80°	37	37	37	36	37	37	37	37	37	36	36
-82.5°	27	27	27	27	27	27	27	27	26	26	26
-85°	21	21	21	20	21	21	21	20	20	20	20
-87.5°	16	16	16	16	16	16	16	16	16	16	15
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731764  
 CATALOG NUMBER: NHRS50UBZ730-VS\_75

**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°	4	4	4	4	3	3	3	3	3	4	4
60°	9	9	9	9	8	9	10	9	6	9	9
57.5°	21	20	24	24	18	21	24	22	19	20	18
55°	68	71	73	66	53	58	54	48	45	41	40
52.5°	194	182	168	151	145	137	109	98	90	87	73
50°	352	378	343	269	291	279	245	194	173	158	129
47.5°	721	722	682	621	564	516	470	376	323	260	223
45°	1227	1175	1138	1059	957	870	782	670	526	433	342
42.5°	1703	1632	1550	1505	1367	1242	1144	1019	840	653	523
40°	2226	2083	2035	2029	1904	1644	1566	1449	1221	965	742
37.5°	2963	2907	2772	2701	2580	2322	2092	1918	1691	1351	1060
35°	3771	3705	3577	3453	3352	2988	2693	2456	2168	1761	1401
32.5°	4381	4275	4191	4069	3880	3567	3235	2977	2619	2181	1763
30°	4791	4709	4598	4536	4359	4065	3697	3406	3042	2596	2114
27.5°	5229	5142	5009	4964	4844	4549	4206	3853	3472	2998	2483
25°	5827	5751	5593	5497	5331	5067	4720	4335	3907	3401	2823
22.5°	6506	6390	6240	6092	5838	5537	5205	4816	4340	3761	3159
20°	6979	6888	6766	6570	6284	5990	5651	5210	4668	4091	3475
17.5°	7232	7190	7099	6909	6652	6359	5949	5474	4957	4391	3799
15°	7426	7379	7284	7140	6931	6595	6171	5694	5198	4646	4008
12.5°	7590	7543	7452	7307	7100	6783	6361	5875	5375	4799	4142
10°	7763	7699	7591	7433	7222	6930	6524	6034	5500	4907	4243
7.5°	7914	7843	7727	7550	7321	7027	6651	6170	5612	4994	4310
5°	8041	7956	7822	7636	7397	7094	6746	6279	5705	5056	4345
2.5°	8120	8037	7901	7708	7472	7157	6821	6373	5808	5134	4422
0°	8208	8123	7979	7772	7515	7203	6838	6399	5851	5149	4441
-2.5°	8123	8042	7911	7709	7467	7157	6806	6380	5838	5172	4448
-5°	8031	7949	7815	7621	7377	7079	6736	6317	5778	5130	4396
-7.5°	7900	7828	7703	7519	7284	6999	6669	6265	5746	5109	4397
-10°	7750	7681	7562	7394	7174	6905	6589	6199	5689	5058	4369
-12.5°	7576	7521	7415	7260	7051	6798	6496	6119	5611	4983	4310
-15°	7406	7358	7260	7112	6919	6679	6386	6016	5503	4882	4223
-17.5°	7246	7199	7111	6959	6772	6547	6252	5866	5359	4748	4125
-20°	7075	7022	6931	6792	6612	6404	6103	5712	5190	4584	3942



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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°	6864	6818	6727	6606	6443	6198	5888	5504	5007	4391	3757
-25°	6618	6597	6508	6383	6223	5983	5645	5236	4737	4168	3544
-27.5°	6341	6316	6258	6122	5941	5691	5366	4954	4438	3872	3290
-30°	6024	5993	5929	5816	5600	5346	5060	4618	4087	3528	2961
-32.5°	5673	5613	5544	5424	5223	4963	4626	4238	3687	3144	2579
-35°	5206	5169	5081	4952	4798	4485	4140	3715	3250	2725	2167
-37.5°	4688	4649	4543	4414	4219	3947	3580	3178	2783	2261	1787
-40°	4089	4041	3939	3795	3592	3349	2995	2641	2216	1820	1422
-42.5°	3436	3383	3282	3123	2928	2685	2391	2052	1714	1401	1121
-45°	2743	2677	2577	2432	2245	2046	1806	1541	1270	1058	834
-47.5°	2044	1998	1898	1774	1635	1466	1298	1098	936	763	650
-50°	1449	1417	1336	1221	1134	1009	900	781	672	586	497
-52.5°	993	970	916	828	772	715	635	573	504	451	398
-55°	688	666	641	600	550	522	479	434	398	356	327
-57.5°	508	487	475	453	423	400	377	346	322	299	271
-60°	397	380	370	356	338	320	303	286	267	250	231
-62.5°	317	306	296	286	275	262	250	238	225	212	194
-65°	256	248	239	232	224	214	205	196	186	174	160
-67.5°	204	199	193	186	179	172	165	157	148	139	128
-70°	158	153	148	143	139	134	128	121	114	106	98
-72.5°	118	114	111	108	103	99	95	90	85	79	73
-75°	84	81	79	76	73	71	67	64	59	55	51
-77.5°	55	54	52	51	48	45	43	41	38	37	34
-80°	35	34	34	33	31	30	28	27	24	23	22
-82.5°	25	24	23	23	21	20	20	19	18	16	16
-85°	19	18	17	16	16	15	14	13	13	13	12
-87.5°	14	13	13	12	11	10	9	9	8	7	6
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P731764  
 CATALOG NUMBER: NHRS50UBZ730-VS\_75

**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°	3	2	3	3	3	2	2	3	2	2	2
60°	7	6	6	7	6	4	4	5	5	3	2
57.5°	17	12	15	14	12	9	8	9	7	6	4
55°	32	27	27	26	20	15	14	13	10	8	6
52.5°	59	52	48	41	34	25	23	20	16	10	9
50°	105	87	75	64	52	43	34	29	22	14	12
47.5°	170	140	112	91	76	62	51	40	29	21	16
45°	278	208	162	129	102	86	69	52	40	28	20
42.5°	402	311	232	168	139	112	91	69	52	36	25
40°	586	437	316	236	179	140	114	88	62	45	32
37.5°	795	601	439	304	225	177	139	108	76	55	39
35°	1084	796	565	394	286	214	165	128	94	66	46
32.5°	1396	1017	723	498	347	255	196	149	109	77	53
30°	1706	1278	894	599	416	306	228	169	125	88	60
27.5°	1986	1524	1077	738	504	356	256	189	140	100	69
25°	2273	1771	1291	887	587	399	282	207	155	112	78
22.5°	2570	2017	1491	1034	656	438	313	229	171	124	87
20°	2846	2256	1669	1151	743	495	345	250	186	136	94
17.5°	3101	2462	1825	1275	836	547	375	270	200	146	102
15°	3295	2618	1965	1381	915	593	402	287	212	156	109
12.5°	3443	2750	2085	1472	982	633	426	303	224	164	115
10°	3556	2856	2184	1544	1035	667	447	316	232	169	119
7.5°	3636	2938	2260	1601	1077	695	462	325	238	175	123
5°	3689	3003	2322	1658	1111	716	476	332	245	181	129
2.5°	3746	3068	2375	1712	1141	734	487	339	247	182	130
0°	3748	3082	2384	1732	1147	740	491	342	249	185	133
-2.5°	3766	3088	2396	1739	1155	744	494	345	251	186	134
-5°	3730	3045	2365	1710	1141	735	490	343	253	188	135
-7.5°	3718	3022	2336	1678	1121	723	484	341	250	186	133
-10°	3687	2994	2307	1650	1098	709	475	337	248	184	133
-12.5°	3631	2940	2251	1602	1065	692	465	331	245	182	131
-15°	3546	2858	2172	1530	1018	667	452	324	240	179	129
-17.5°	3433	2750	2066	1437	957	634	435	315	235	175	127
-20°	3282	2608	1937	1319	884	592	414	303	228	171	124



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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°	3100	2428	1781	1219	812	540	389	290	220	165	121
-25°	2889	2215	1601	1103	749	508	366	274	211	159	116
-27.5°	2637	1979	1401	971	670	473	347	263	201	152	112
-30°	2343	1743	1229	836	585	431	326	250	193	146	106
-32.5°	2004	1486	1051	735	522	389	301	235	183	139	101
-35°	1680	1244	872	628	469	356	278	220	172	131	97
-37.5°	1371	1004	738	539	411	324	258	205	161	123	91
-40°	1091	802	604	472	368	290	237	191	151	115	85
-42.5°	835	653	509	402	328	267	218	175	140	106	79
-45°	673	525	428	353	289	242	199	160	127	98	73
-47.5°	525	437	363	305	261	218	180	146	115	90	66
-50°	430	363	311	268	231	196	161	131	105	80	61
-52.5°	350	307	268	235	204	173	143	117	93	73	55
-55°	292	262	232	205	178	152	126	103	82	65	48
-57.5°	249	224	200	177	154	131	110	90	72	56	43
-60°	211	192	171	151	131	112	94	77	62	48	37
-62.5°	178	161	144	127	110	94	80	66	52	42	32
-65°	147	133	120	105	90	78	66	54	44	35	27
-67.5°	116	106	96	83	73	63	53	44	36	28	23
-70°	90	81	73	66	57	48	42	35	28	23	19
-72.5°	67	61	55	48	43	37	32	27	23	19	14
-75°	46	43	39	35	31	27	24	20	17	13	11
-77.5°	32	29	26	24	22	20	17	14	12	10	9
-80°	21	20	18	16	15	13	12	10	9	8	6
-82.5°	14	13	13	11	10	9	9	7	6	5	4
-85°	11	10	9	9	8	6	6	5	4	3	2
-87.5°	6	6	5	5	4	3	3	2	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731764  
 CATALOG NUMBER: NHRS50UBZ730-VS\_75

**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	2	2	1	0	1	0
60°	2	2	2	2	0	1	0
57.5°	4	3	2	2	1	1	0
55°	6	4	3	2	1	1	0
52.5°	7	5	4	2	1	1	0
50°	9	7	5	2	2	1	0
47.5°	12	9	6	3	2	1	0
45°	15	10	6	4	2	1	0
42.5°	19	13	7	4	2	1	0
40°	23	14	8	5	2	1	0
37.5°	27	16	9	6	3	1	0
35°	30	19	11	6	3	1	0
32.5°	35	23	13	7	3	1	0
30°	41	26	14	8	4	1	0
27.5°	46	29	16	9	4	1	0
25°	52	32	18	9	4	1	0
22.5°	57	35	20	9	5	1	0
20°	62	38	21	10	5	2	0
17.5°	66	41	23	11	5	2	0
15°	71	44	24	12	6	2	0
12.5°	75	47	26	13	6	2	0
10°	78	49	27	13	6	2	0
7.5°	81	51	29	13	6	2	0
5°	85	53	30	14	6	2	0
2.5°	87	55	30	14	6	2	0
0°	89	56	31	15	6	2	0
-2.5°	90	58	32	16	6	2	0
-5°	91	59	33	16	6	2	0
-7.5°	91	59	34	16	6	2	0
-10°	91	59	34	16	7	2	0
-12.5°	90	59	34	16	6	2	0
-15°	90	59	34	16	6	2	0
-17.5°	89	59	33	16	6	2	0
-20°	87	58	33	16	6	2	0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	85	56	32	16	6	2	0
-25°	82	55	31	16	6	2	0
-27.5°	79	52	30	16	6	2	0
-30°	76	50	30	15	6	2	0
-32.5°	72	47	28	14	6	2	0
-35°	68	44	27	14	6	2	0
-37.5°	64	41	25	13	6	2	0
-40°	60	39	23	13	6	2	0
-42.5°	56	37	22	11	6	2	0
-45°	52	34	20	10	5	2	0
-47.5°	46	31	19	9	5	2	0
-50°	43	28	17	9	4	2	0
-52.5°	39	25	16	8	4	2	0
-55°	35	23	14	8	4	2	0
-57.5°	30	20	12	7	3	2	0
-60°	27	18	10	6	3	1	0
-62.5°	23	16	9	6	2	1	0
-65°	20	13	9	5	2	1	0
-67.5°	16	11	7	4	2	1	0
-70°	13	9	6	3	2	1	0
-72.5°	11	8	5	3	2	1	0
-75°	9	6	4	2	2	1	0
-77.5°	6	5	3	2	2	1	0
-80°	4	3	2	2	1	1	0
-82.5°	3	2	2	2	1	0	0
-85°	2	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)