

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: P731772

Luminaire Tested: **NHRS50UBZ740-VS_75**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731772
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ740-VS_75
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 4000K WITH VISOR @ 75% output
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

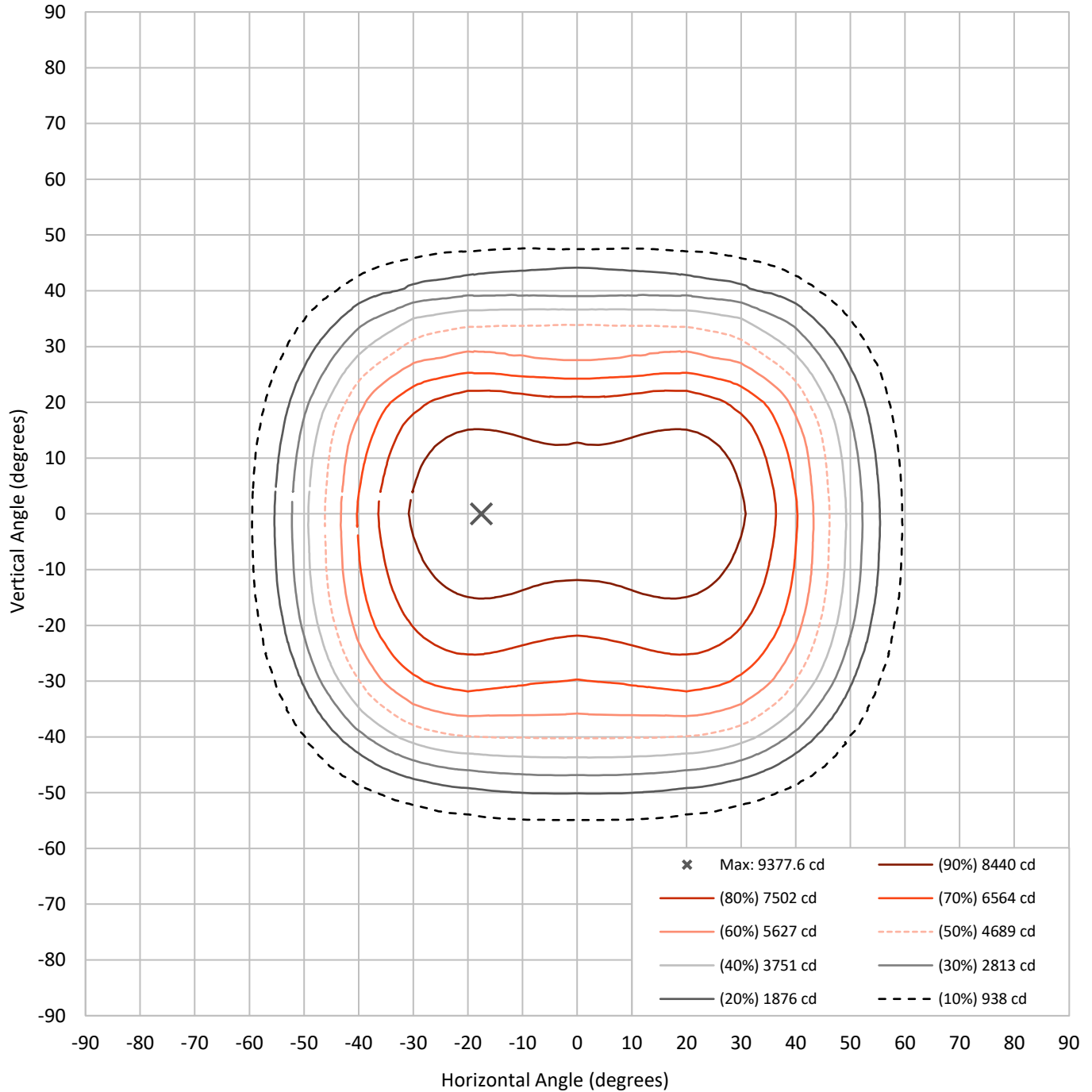
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	15813.3 lumens	Max Intensity:	9377.6 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	139.8 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:	12434 lumens	Field Lumens:	15296.5 lumens
Beam Efficiency:	78.6%	Field Efficiency:	96.7%
Input Watts (W):	113.1		
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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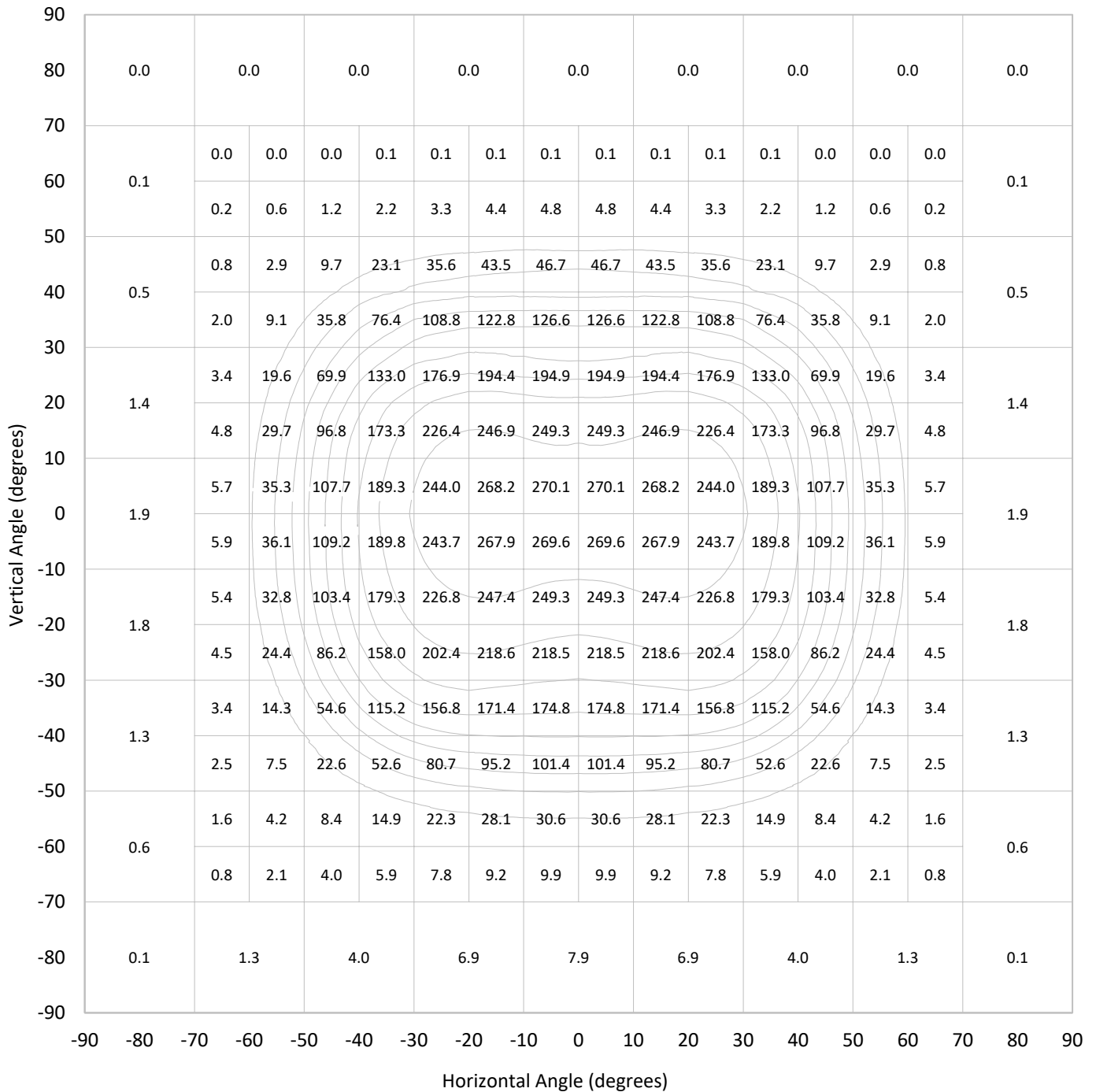
Iso-Candela Plot





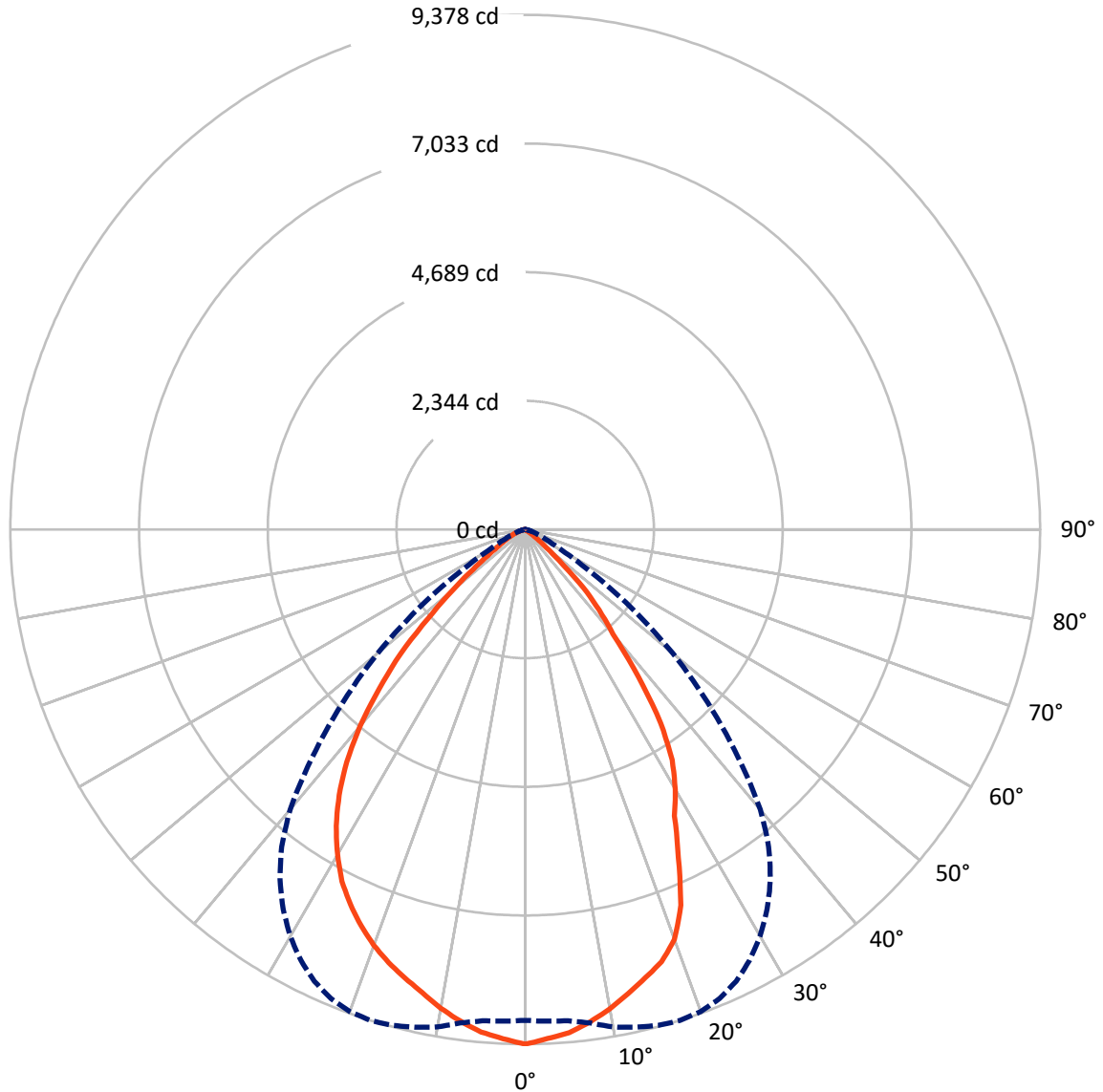
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Lumen Table



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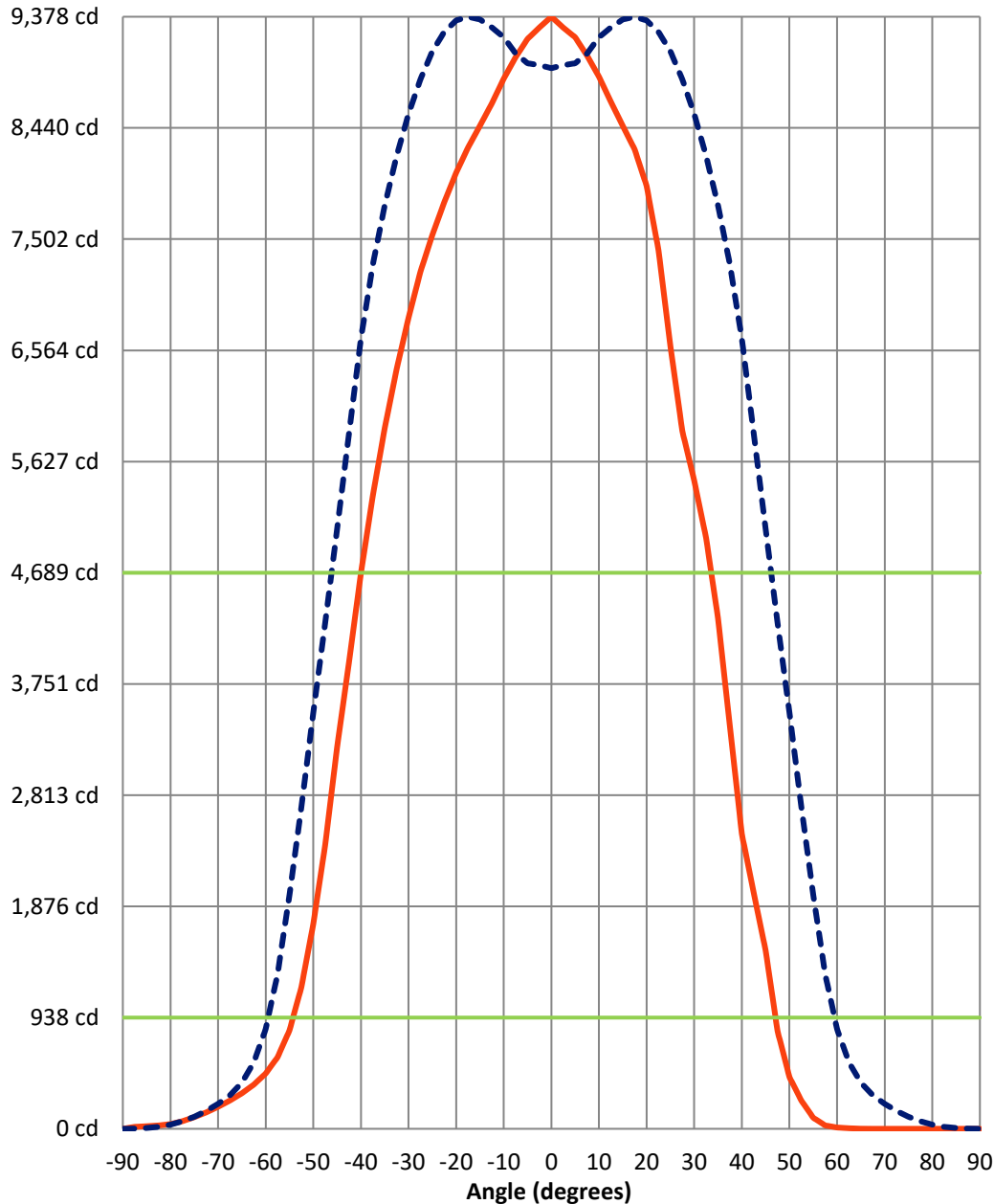
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 92.3°
 V Angle: 73.6°
 Lumens: 12434
 Efficiency: 78.6%

Field:
 H Angle: 119°
 V Angle: 101.3°
 Lumens: 15296.5
 Efficiency: 96.7%

Spill:
 Lumens: 516.9
 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	2	1	2	2	2
62.5°	0	1	0	1	2	2	2	2	2	3	3
60°	0	1	0	2	2	3	2	3	4	6	6
57.5°	0	1	1	2	2	4	4	5	6	8	9
55°	0	1	1	2	3	5	6	6	9	11	15
52.5°	0	1	1	2	4	6	8	9	12	18	22
50°	0	1	2	2	5	7	10	13	16	25	33
47.5°	0	1	2	3	6	9	13	17	23	33	45
45°	0	1	2	4	7	12	17	22	32	45	59
42.5°	0	1	2	5	8	14	21	29	41	59	79
40°	0	1	2	6	9	16	25	37	52	72	100
37.5°	0	1	3	6	11	19	30	44	64	87	122
35°	0	1	3	7	13	22	34	52	76	106	146
32.5°	0	1	4	8	14	26	40	60	88	125	169
30°	0	1	4	9	16	29	46	69	101	142	193
27.5°	0	1	4	9	18	33	52	79	114	159	214
25°	0	1	5	10	20	37	59	89	128	177	235
22.5°	0	1	5	11	22	40	65	98	141	194	261
20°	0	2	6	12	23	44	71	108	154	211	285
17.5°	0	2	6	12	26	47	76	116	166	227	306
15°	0	2	6	13	27	50	81	124	178	241	327
12.5°	0	2	6	13	29	52	85	130	186	254	344
10°	0	2	6	14	30	55	89	136	193	264	359
7.5°	0	2	6	15	32	58	93	140	199	271	370
5°	0	2	7	16	34	61	97	146	206	278	378
2.5°	0	2	7	16	34	62	99	148	208	281	386
0°	0	2	7	16	35	64	101	151	211	283	389
-2.5°	0	2	7	17	36	66	103	152	212	285	391
-5°	0	2	7	17	37	67	105	154	214	288	390
-7.5°	0	2	8	18	37	67	104	152	211	285	388
-10°	0	2	8	18	37	67	104	151	210	282	383
-12.5°	0	2	8	18	37	67	104	150	207	279	377
-15°	0	2	8	18	37	67	102	147	204	274	369
-17.5°	0	2	8	18	37	66	101	145	200	267	359
-20°	0	2	7	18	37	66	99	141	194	260	346



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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	7	18	37	64	97	137	189	251	331
-25°	0	2	7	18	36	62	94	133	182	240	313
-27.5°	0	2	7	17	35	59	90	127	174	229	299
-30°	0	2	7	17	34	57	87	121	166	219	285
-32.5°	0	2	7	16	32	54	82	115	158	208	268
-35°	0	2	7	16	30	50	77	110	150	197	250
-37.5°	0	2	6	15	29	47	73	104	140	184	234
-40°	0	2	6	14	27	44	69	97	130	172	218
-42.5°	0	2	6	13	25	41	63	90	121	159	200
-45°	0	2	6	12	23	39	58	83	112	145	182
-47.5°	0	2	6	11	22	36	52	76	102	131	166
-50°	0	2	6	10	20	32	48	69	92	119	149
-52.5°	0	2	5	9	18	29	44	62	83	106	133
-55°	0	2	5	9	16	26	40	55	73	93	117
-57.5°	0	2	4	8	14	23	35	48	64	82	102
-60°	0	2	4	7	12	20	30	43	55	71	88
-62.5°	0	2	3	7	11	18	27	37	48	59	75
-65°	0	1	3	6	9	15	23	30	40	50	62
-67.5°	0	1	3	5	9	13	19	26	32	41	51
-70°	0	1	2	4	7	11	15	21	27	32	41
-72.5°	0	1	2	4	6	9	13	16	21	26	30
-75°	0	1	2	3	5	7	10	13	15	20	23
-77.5°	0	1	2	2	4	6	8	10	12	13	16
-80°	0	1	2	2	3	4	5	7	9	10	12
-82.5°	0	0	1	2	2	3	4	5	6	7	9
-85°	0	0	1	1	2	2	2	3	4	5	6
-87.5°	0	0	0	1	1	1	2	2	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: NHRS50UBZ740-VS_75

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	4	4	4	4	4
60°	5	5	7	8	7	7	8	10	9	7	10
57.5°	9	9	13	16	16	13	19	20	23	21	24
55°	16	16	23	29	31	31	36	45	47	52	54
52.5°	27	28	40	48	54	59	68	84	98	103	112
50°	39	49	59	73	85	98	119	147	179	197	221
47.5°	58	71	87	105	127	159	194	253	296	366	428
45°	80	98	117	147	185	237	316	388	494	599	762
42.5°	104	129	159	193	264	354	458	596	744	956	1160
40°	129	159	204	270	359	497	666	845	1099	1390	1650
37.5°	158	202	257	346	500	684	905	1206	1538	1926	2184
35°	188	245	326	448	643	906	1233	1596	2006	2469	2796
32.5°	223	291	395	568	823	1157	1590	2008	2484	2983	3388
30°	260	348	473	682	1018	1455	1942	2407	2956	3463	3878
27.5°	292	406	573	840	1226	1735	2261	2828	3414	3953	4387
25°	322	454	669	1010	1470	2017	2589	3215	3872	4448	4936
22.5°	356	499	747	1177	1698	2297	2927	3597	4283	4941	5484
20°	393	564	846	1310	1901	2569	3241	3958	4658	5316	5933
17.5°	426	623	951	1451	2078	2803	3532	4327	5000	5645	6233
15°	458	675	1042	1573	2238	2981	3752	4564	5290	5919	6484
12.5°	484	720	1117	1676	2374	3131	3920	4717	5465	6121	6690
10°	508	759	1178	1759	2486	3252	4049	4831	5587	6262	6871
7.5°	526	791	1226	1823	2573	3346	4140	4908	5686	6390	7025
5°	541	815	1265	1888	2644	3419	4201	4947	5757	6496	7150
2.5°	554	836	1298	1949	2705	3493	4266	5035	5846	6613	7256
0°	560	842	1306	1972	2715	3509	4267	5057	5863	6662	7286
-2.5°	563	846	1316	1979	2729	3517	4289	5065	5889	6647	7265
-5°	557	837	1300	1947	2694	3467	4246	5007	5842	6578	7192
-7.5°	551	823	1276	1910	2660	3441	4233	5007	5817	6543	7134
-10°	541	807	1251	1879	2626	3409	4199	4975	5760	6478	7058
-12.5°	530	787	1212	1823	2564	3347	4133	4908	5674	6389	6967
-15°	515	759	1159	1742	2472	3254	4038	4809	5558	6266	6850
-17.5°	496	721	1090	1636	2352	3132	3910	4697	5407	6102	6680
-20°	472	673	1006	1502	2205	2969	3737	4488	5219	5909	6503



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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°	443	615	924	1388	2028	2764	3529	4278	5000	5701	6267
-25°	417	579	853	1256	1823	2522	3289	4036	4746	5394	5962
-27.5°	395	539	763	1105	1596	2253	3001	3745	4409	5053	5640
-30°	371	491	666	952	1400	1985	2668	3371	4017	4654	5258
-32.5°	343	443	594	837	1197	1693	2281	2936	3579	4198	4826
-35°	316	406	533	716	992	1417	1913	2467	3103	3701	4230
-37.5°	294	370	468	613	841	1144	1562	2034	2574	3169	3617
-40°	271	331	419	538	688	914	1242	1619	2072	2524	3008
-42.5°	249	303	374	458	580	745	950	1276	1595	1951	2336
-45°	226	275	330	402	487	598	766	950	1205	1446	1754
-47.5°	205	248	298	348	413	497	598	741	869	1065	1249
-50°	183	223	263	306	354	412	490	565	667	766	890
-52.5°	164	197	232	267	306	350	399	453	514	574	653
-55°	143	173	203	233	264	299	333	373	405	454	494
-57.5°	125	150	175	202	228	255	284	310	340	366	395
-60°	108	127	149	172	195	218	240	264	285	303	326
-62.5°	90	108	126	144	165	183	203	221	242	257	271
-65°	76	89	104	119	136	151	167	182	198	211	223
-67.5°	61	72	83	95	109	121	133	146	158	169	179
-70°	48	55	65	75	84	94	103	112	121	129	138
-72.5°	37	43	48	55	62	69	76	83	90	97	103
-75°	27	30	35	40	44	48	52	58	63	68	73
-77.5°	20	22	25	27	29	33	36	38	41	44	45
-80°	13	14	16	18	20	23	23	25	26	28	30
-82.5°	9	11	12	13	13	15	16	17	19	20	21
-85°	6	7	9	9	10	11	13	13	14	15	16
-87.5°	3	4	5	5	6	6	7	8	9	9	10
-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	4	4	4	4	5	5	6	6
60°	11	9	9	10	10	9	10	11	11	11	11
57.5°	28	24	21	27	28	23	24	29	27	23	23
55°	61	66	61	75	83	81	78	94	101	101	101
52.5°	124	156	165	171	191	208	221	238	252	260	274
50°	278	317	331	306	390	430	402	437	469	455	447
47.5°	535	587	642	707	777	822	820	826	883	915	937
45°	890	990	1088	1205	1296	1337	1398	1502	1524	1563	1600
42.5°	1302	1414	1555	1714	1764	1858	1939	1990	2053	2084	2096
40°	1783	1871	2167	2310	2317	2372	2534	2488	2506	2578	2505
37.5°	2381	2643	2938	3076	3157	3310	3374	3391	3394	3401	3402
35°	3065	3402	3817	3932	4073	4218	4294	4303	4369	4384	4384
32.5°	3684	4062	4418	4633	4772	4868	4987	4981	4989	5000	4993
30°	4210	4629	4964	5166	5236	5361	5454	5466	5437	5403	5382
27.5°	4789	5180	5516	5653	5703	5855	5954	5886	5905	5760	5765
25°	5375	5770	6070	6259	6368	6549	6634	6599	6602	6484	6413
22.5°	5927	6304	6648	6938	7106	7275	7408	7408	7433	7347	7297
20°	6435	6821	7156	7480	7705	7843	7946	7950	7939	7864	7811
17.5°	6774	7240	7574	7867	8084	8186	8235	8257	8214	8161	8101
15°	7026	7509	7891	8130	8294	8402	8455	8457	8438	8391	8327
12.5°	7242	7723	8084	8320	8485	8588	8643	8660	8647	8606	8543
10°	7428	7890	8224	8464	8643	8766	8840	8872	8852	8807	8749
7.5°	7574	8001	8336	8598	8798	8930	9010	9049	9044	8995	8939
5°	7681	8078	8423	8696	8908	9059	9157	9204	9188	9146	9091
2.5°	7767	8151	8508	8777	8997	9151	9246	9286	9270	9219	9154
0°	7786	8203	8558	8849	9085	9249	9346	9378	9354	9287	9205
-2.5°	7750	8150	8501	8778	9008	9158	9250	9287	9266	9208	9141
-5°	7670	8060	8400	8678	8900	9052	9145	9191	9178	9132	9078
-7.5°	7594	7970	8294	8562	8772	8914	8995	9037	9039	8980	8923
-10°	7502	7862	8169	8419	8611	8747	8824	8855	8831	8788	8738
-12.5°	7396	7740	8029	8268	8445	8563	8626	8646	8639	8605	8537
-15°	7270	7604	7879	8098	8268	8377	8434	8459	8449	8402	8335
-17.5°	7118	7454	7711	7924	8098	8197	8250	8275	8244	8188	8129
-20°	6948	7291	7528	7734	7893	7995	8055	8062	8028	7963	7888



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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°	6704	7058	7337	7522	7660	7765	7816	7813	7784	7709	7625
-25°	6428	6813	7086	7267	7410	7511	7536	7537	7488	7412	7339
-27.5°	6110	6480	6766	6970	7125	7192	7220	7227	7157	7078	7023
-30°	5762	6088	6376	6623	6751	6823	6859	6839	6784	6726	6680
-32.5°	5268	5651	5947	6176	6312	6391	6460	6405	6351	6326	6298
-35°	4713	5107	5463	5639	5786	5886	5928	5908	5866	5875	5856
-37.5°	4076	4494	4805	5027	5173	5293	5337	5338	5339	5346	5332
-40°	3411	3814	4091	4322	4485	4601	4656	4684	4724	4736	4721
-42.5°	2722	3058	3334	3556	3737	3853	3912	3935	4013	4048	4052
-45°	2057	2330	2557	2770	2934	3048	3124	3217	3257	3297	3324
-47.5°	1477	1669	1862	2021	2161	2276	2328	2395	2489	2536	2571
-50°	1025	1149	1292	1390	1521	1614	1650	1728	1804	1848	1884
-52.5°	724	814	879	943	1044	1104	1131	1195	1244	1272	1302
-55°	546	595	627	682	730	758	783	830	855	861	878
-57.5°	429	455	481	516	540	555	579	604	621	628	639
-60°	345	363	384	405	422	433	452	466	476	482	489
-62.5°	284	298	313	326	337	348	362	373	380	386	391
-65°	234	244	255	264	273	282	292	299	306	311	316
-67.5°	189	197	204	212	220	226	233	239	243	247	250
-70°	146	153	158	163	168	174	180	186	189	192	194
-72.5°	108	112	117	122	126	129	134	138	141	143	144
-75°	77	81	84	87	90	93	96	98	101	102	102
-77.5°	48	52	55	57	59	61	62	64	65	66	66
-80°	32	34	35	37	37	38	39	40	41	41	41
-82.5°	22	23	24	25	27	27	28	28	29	30	30
-85°	16	17	18	19	20	20	21	22	23	23	23
-87.5°	11	12	13	13	14	15	16	16	18	18	18
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731772
 CATALOG NUMBER: NHRS50UBZ740-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°	6	6	6	6	6	6	6	6	6	5	5
60°	12	12	12	12	12	12	12	11	11	11	11
57.5°	23	22	21	20	21	22	23	23	23	27	29
55°	92	78	71	67	71	78	92	101	101	101	94
52.5°	288	297	309	307	309	297	288	274	260	252	238
50°	451	448	455	464	455	448	451	447	455	469	437
47.5°	930	878	851	847	851	878	930	937	915	883	826
45°	1644	1675	1729	1749	1729	1675	1644	1600	1563	1524	1502
42.5°	2121	2128	2144	2156	2144	2128	2121	2096	2084	2053	1990
40°	2499	2484	2472	2474	2472	2484	2499	2505	2578	2506	2488
37.5°	3440	3404	3352	3357	3352	3404	3440	3402	3401	3394	3391
35°	4402	4426	4466	4450	4466	4426	4402	4384	4384	4369	4303
32.5°	4982	4985	4985	4979	4985	4985	4982	4993	5000	4989	4981
30°	5339	5314	5276	5293	5276	5314	5339	5382	5403	5437	5466
27.5°	5686	5636	5581	5587	5581	5636	5686	5765	5760	5905	5886
25°	6390	6344	6252	6269	6252	6344	6390	6413	6484	6602	6599
22.5°	7226	7218	7224	7224	7224	7218	7226	7297	7347	7433	7408
20°	7741	7689	7668	7690	7668	7689	7741	7811	7864	7939	7950
17.5°	8022	7986	7978	7995	7978	7986	8022	8101	8161	8214	8257
15°	8261	8228	8221	8236	8221	8228	8261	8327	8391	8438	8457
12.5°	8480	8434	8425	8469	8425	8434	8480	8543	8606	8647	8660
10°	8690	8622	8612	8654	8612	8622	8690	8749	8807	8852	8872
7.5°	8873	8796	8774	8838	8774	8796	8873	8939	8995	9044	9049
5°	9008	8933	8865	8954	8865	8933	9008	9091	9146	9188	9204
2.5°	9058	9001	8954	8985	8954	9001	9058	9154	9219	9270	9286
0°	9067	8986	8968	8944	8968	8986	9067	9205	9287	9354	9378
-2.5°	9055	8993	8956	8935	8956	8993	9055	9141	9208	9266	9287
-5°	8986	8929	8861	8890	8861	8929	8986	9078	9132	9178	9191
-7.5°	8868	8777	8751	8780	8751	8777	8868	8923	8980	9039	9037
-10°	8664	8597	8582	8596	8582	8597	8664	8738	8788	8831	8855
-12.5°	8469	8420	8403	8388	8403	8420	8469	8537	8605	8639	8646
-15°	8271	8226	8207	8198	8207	8226	8271	8335	8402	8449	8459
-17.5°	8055	8007	7976	7963	7976	8007	8055	8129	8188	8244	8275
-20°	7819	7755	7719	7695	7719	7755	7819	7888	7963	8028	8062



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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°	7559	7496	7454	7433	7454	7496	7559	7625	7709	7784	7813
-25°	7274	7223	7171	7162	7171	7223	7274	7339	7412	7488	7537
-27.5°	6957	6923	6873	6846	6873	6923	6957	7023	7078	7157	7227
-30°	6616	6596	6563	6529	6563	6596	6616	6680	6726	6784	6839
-32.5°	6259	6242	6218	6195	6218	6242	6259	6298	6326	6351	6405
-35°	5842	5831	5814	5778	5814	5831	5842	5856	5875	5866	5908
-37.5°	5343	5339	5333	5309	5333	5339	5343	5332	5346	5339	5338
-40°	4749	4752	4757	4735	4757	4752	4749	4721	4736	4724	4684
-42.5°	4088	4091	4098	4070	4098	4091	4088	4052	4048	4013	3935
-45°	3364	3366	3379	3369	3379	3366	3364	3324	3297	3257	3217
-47.5°	2609	2617	2630	2608	2630	2617	2609	2571	2536	2489	2395
-50°	1910	1911	1921	1905	1921	1911	1910	1884	1848	1804	1728
-52.5°	1316	1310	1318	1313	1318	1310	1316	1302	1272	1244	1195
-55°	886	885	890	884	890	885	886	878	861	855	830
-57.5°	643	642	645	643	645	642	643	639	628	621	604
-60°	493	494	497	495	497	494	493	489	482	476	466
-62.5°	394	395	396	395	396	395	394	391	386	380	373
-65°	318	319	320	320	320	319	318	316	311	306	299
-67.5°	253	257	256	254	256	257	253	250	247	243	239
-70°	196	197	197	195	197	197	196	194	192	189	186
-72.5°	145	146	145	144	145	146	145	144	143	141	138
-75°	102	102	101	100	101	102	102	102	102	101	98
-77.5°	66	66	66	64	66	66	66	66	66	65	64
-80°	42	42	41	41	41	42	42	41	41	41	40
-82.5°	30	30	30	30	30	30	30	30	30	29	28
-85°	23	23	23	23	23	23	23	23	23	23	22
-87.5°	19	19	19	19	19	19	19	18	18	18	16
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731772
 CATALOG NUMBER: NHRS50UBZ740-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	4	4	4	4	4	4	4
60°	10	9	10	10	9	9	11	10	7	9	10
57.5°	24	23	28	27	21	24	28	24	21	23	20
55°	78	81	83	75	61	66	61	54	52	47	45
52.5°	221	208	191	171	165	156	124	112	103	98	84
50°	402	430	390	306	331	317	278	221	197	179	147
47.5°	820	822	777	707	642	587	535	428	366	296	253
45°	1398	1337	1296	1205	1088	990	890	762	599	494	388
42.5°	1939	1858	1764	1714	1555	1414	1302	1160	956	744	596
40°	2534	2372	2317	2310	2167	1871	1783	1650	1390	1099	845
37.5°	3374	3310	3157	3076	2938	2643	2381	2184	1926	1538	1206
35°	4294	4218	4073	3932	3817	3402	3065	2796	2469	2006	1596
32.5°	4987	4868	4772	4633	4418	4062	3684	3388	2983	2484	2008
30°	5454	5361	5236	5166	4964	4629	4210	3878	3463	2956	2407
27.5°	5954	5855	5703	5653	5516	5180	4789	4387	3953	3414	2828
25°	6634	6549	6368	6259	6070	5770	5375	4936	4448	3872	3215
22.5°	7408	7275	7106	6938	6648	6304	5927	5484	4941	4283	3597
20°	7946	7843	7705	7480	7156	6821	6435	5933	5316	4658	3958
17.5°	8235	8186	8084	7867	7574	7240	6774	6233	5645	5000	4327
15°	8455	8402	8294	8130	7891	7509	7026	6484	5919	5290	4564
12.5°	8643	8588	8485	8320	8084	7723	7242	6690	6121	5465	4717
10°	8840	8766	8643	8464	8224	7890	7428	6871	6262	5587	4831
7.5°	9010	8930	8798	8598	8336	8001	7574	7025	6390	5686	4908
5°	9157	9059	8908	8696	8423	8078	7681	7150	6496	5757	4947
2.5°	9246	9151	8997	8777	8508	8151	7767	7256	6613	5846	5035
0°	9346	9249	9085	8849	8558	8203	7786	7286	6662	5863	5057
-2.5°	9250	9158	9008	8778	8501	8150	7750	7265	6647	5889	5065
-5°	9145	9052	8900	8678	8400	8060	7670	7192	6578	5842	5007
-7.5°	8995	8914	8772	8562	8294	7970	7594	7134	6543	5817	5007
-10°	8824	8747	8611	8419	8169	7862	7502	7058	6478	5760	4975
-12.5°	8626	8563	8445	8268	8029	7740	7396	6967	6389	5674	4908
-15°	8434	8377	8268	8098	7879	7604	7270	6850	6266	5558	4809
-17.5°	8250	8197	8098	7924	7711	7454	7118	6680	6102	5407	4697
-20°	8055	7995	7893	7734	7528	7291	6948	6503	5909	5219	4488



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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°	7816	7765	7660	7522	7337	7058	6704	6267	5701	5000	4278
-25°	7536	7511	7410	7267	7086	6813	6428	5962	5394	4746	4036
-27.5°	7220	7192	7125	6970	6766	6480	6110	5640	5053	4409	3745
-30°	6859	6823	6751	6623	6376	6088	5762	5258	4654	4017	3371
-32.5°	6460	6391	6312	6176	5947	5651	5268	4826	4198	3579	2936
-35°	5928	5886	5786	5639	5463	5107	4713	4230	3701	3103	2467
-37.5°	5337	5293	5173	5027	4805	4494	4076	3617	3169	2574	2034
-40°	4656	4601	4485	4322	4091	3814	3411	3008	2524	2072	1619
-42.5°	3912	3853	3737	3556	3334	3058	2722	2336	1951	1595	1276
-45°	3124	3048	2934	2770	2557	2330	2057	1754	1446	1205	950
-47.5°	2328	2276	2161	2021	1862	1669	1477	1249	1065	869	741
-50°	1650	1614	1521	1390	1292	1149	1025	890	766	667	565
-52.5°	1131	1104	1044	943	879	814	724	653	574	514	453
-55°	783	758	730	682	627	595	546	494	454	405	373
-57.5°	579	555	540	516	481	455	429	395	366	340	310
-60°	452	433	422	405	384	363	345	326	303	285	264
-62.5°	362	348	337	326	313	298	284	271	257	242	221
-65°	292	282	273	264	255	244	234	223	211	198	182
-67.5°	233	226	220	212	204	197	189	179	169	158	146
-70°	180	174	168	163	158	153	146	138	129	121	112
-72.5°	134	129	126	122	117	112	108	103	97	90	83
-75°	96	93	90	87	84	81	77	73	68	63	58
-77.5°	62	61	59	57	55	52	48	45	44	41	38
-80°	39	38	37	37	35	34	32	30	28	26	25
-82.5°	28	27	27	25	24	23	22	21	20	19	17
-85°	21	20	20	19	18	17	16	16	15	14	13
-87.5°	16	15	14	13	13	12	11	10	9	9	8
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: NHRS50UBZ740-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°	4	2	3	3	3	2	2	3	3	2	2
60°	8	7	7	8	7	5	5	6	6	4	3
57.5°	19	13	16	16	13	9	9	9	8	6	5
55°	36	31	31	29	23	16	16	15	11	9	6
52.5°	68	59	54	48	40	28	27	22	18	12	9
50°	119	98	85	73	59	49	39	33	25	16	13
47.5°	194	159	127	105	87	71	58	45	33	23	17
45°	316	237	185	147	117	98	80	59	45	32	22
42.5°	458	354	264	193	159	129	104	79	59	41	29
40°	666	497	359	270	204	159	129	100	72	52	37
37.5°	905	684	500	346	257	202	158	122	87	64	44
35°	1233	906	643	448	326	245	188	146	106	76	52
32.5°	1590	1157	823	568	395	291	223	169	125	88	60
30°	1942	1455	1018	682	473	348	260	193	142	101	69
27.5°	2261	1735	1226	840	573	406	292	214	159	114	79
25°	2589	2017	1470	1010	669	454	322	235	177	128	89
22.5°	2927	2297	1698	1177	747	499	356	261	194	141	98
20°	3241	2569	1901	1310	846	564	393	285	211	154	108
17.5°	3532	2803	2078	1451	951	623	426	306	227	166	116
15°	3752	2981	2238	1573	1042	675	458	327	241	178	124
12.5°	3920	3131	2374	1676	1117	720	484	344	254	186	130
10°	4049	3252	2486	1759	1178	759	508	359	264	193	136
7.5°	4140	3346	2573	1823	1226	791	526	370	271	199	140
5°	4201	3419	2644	1888	1265	815	541	378	278	206	146
2.5°	4266	3493	2705	1949	1298	836	554	386	281	208	148
0°	4267	3509	2715	1972	1306	842	560	389	283	211	151
-2.5°	4289	3517	2729	1979	1316	846	563	391	285	212	152
-5°	4246	3467	2694	1947	1300	837	557	390	288	214	154
-7.5°	4233	3441	2660	1910	1276	823	551	388	285	211	152
-10°	4199	3409	2626	1879	1251	807	541	383	282	210	151
-12.5°	4133	3347	2564	1823	1212	787	530	377	279	207	150
-15°	4038	3254	2472	1742	1159	759	515	369	274	204	147
-17.5°	3910	3132	2352	1636	1090	721	496	359	267	200	145
-20°	3737	2969	2205	1502	1006	673	472	346	260	194	141



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 CATALOG NUMBER: NHRS50UBZ740-VS_75

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3529	2764	2028	1388	924	615	443	331	251	189	137
-25°	3289	2522	1823	1256	853	579	417	313	240	182	133
-27.5°	3001	2253	1596	1105	763	539	395	299	229	174	127
-30°	2668	1985	1400	952	666	491	371	285	219	166	121
-32.5°	2281	1693	1197	837	594	443	343	268	208	158	115
-35°	1913	1417	992	716	533	406	316	250	197	150	110
-37.5°	1562	1144	841	613	468	370	294	234	184	140	104
-40°	1242	914	688	538	419	331	271	218	172	130	97
-42.5°	950	745	580	458	374	303	249	200	159	121	90
-45°	766	598	487	402	330	275	226	182	145	112	83
-47.5°	598	497	413	348	298	248	205	166	131	102	76
-50°	490	412	354	306	263	223	183	149	119	92	69
-52.5°	399	350	306	267	232	197	164	133	106	83	62
-55°	333	299	264	233	203	173	143	117	93	73	55
-57.5°	284	255	228	202	175	150	125	102	82	64	48
-60°	240	218	195	172	149	127	108	88	71	55	43
-62.5°	203	183	165	144	126	108	90	75	59	48	37
-65°	167	151	136	119	104	89	76	62	50	40	30
-67.5°	133	121	109	95	83	72	61	51	41	32	26
-70°	103	94	84	75	65	55	48	41	32	27	21
-72.5°	76	69	62	55	48	43	37	30	26	21	16
-75°	52	48	44	40	35	30	27	23	20	15	13
-77.5°	36	33	29	27	25	22	20	16	13	12	10
-80°	23	23	20	18	16	14	13	12	10	9	7
-82.5°	16	15	13	13	12	11	9	9	7	6	5
-85°	13	11	10	9	9	7	6	6	5	4	3
-87.5°	7	6	6	5	5	4	3	2	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731772
 CATALOG NUMBER: NHRS50UBZ740-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°	2	2	2	1	0	0	0
62.5°	2	2	2	1	0	1	0
60°	2	3	2	2	0	1	0
57.5°	4	4	2	2	1	1	0
55°	6	5	3	2	1	1	0
52.5°	8	6	4	2	1	1	0
50°	10	7	5	2	2	1	0
47.5°	13	9	6	3	2	1	0
45°	17	12	7	4	2	1	0
42.5°	21	14	8	5	2	1	0
40°	25	16	9	6	2	1	0
37.5°	30	19	11	6	3	1	0
35°	34	22	13	7	3	1	0
32.5°	40	26	14	8	4	1	0
30°	46	29	16	9	4	1	0
27.5°	52	33	18	9	4	1	0
25°	59	37	20	10	5	1	0
22.5°	65	40	22	11	5	1	0
20°	71	44	23	12	6	2	0
17.5°	76	47	26	12	6	2	0
15°	81	50	27	13	6	2	0
12.5°	85	52	29	13	6	2	0
10°	89	55	30	14	6	2	0
7.5°	93	58	32	15	6	2	0
5°	97	61	34	16	7	2	0
2.5°	99	62	34	16	7	2	0
0°	101	64	35	16	7	2	0
-2.5°	103	66	36	17	7	2	0
-5°	105	67	37	17	7	2	0
-7.5°	104	67	37	18	8	2	0
-10°	104	67	37	18	8	2	0
-12.5°	104	67	37	18	8	2	0
-15°	102	67	37	18	8	2	0
-17.5°	101	66	37	18	8	2	0
-20°	99	66	37	18	7	2	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	97	64	37	18	7	2	0
-25°	94	62	36	18	7	2	0
-27.5°	90	59	35	17	7	2	0
-30°	87	57	34	17	7	2	0
-32.5°	82	54	32	16	7	2	0
-35°	77	50	30	16	7	2	0
-37.5°	73	47	29	15	6	2	0
-40°	69	44	27	14	6	2	0
-42.5°	63	41	25	13	6	2	0
-45°	58	39	23	12	6	2	0
-47.5°	52	36	22	11	6	2	0
-50°	48	32	20	10	6	2	0
-52.5°	44	29	18	9	5	2	0
-55°	40	26	16	9	5	2	0
-57.5°	35	23	14	8	4	2	0
-60°	30	20	12	7	4	2	0
-62.5°	27	18	11	7	3	2	0
-65°	23	15	9	6	3	1	0
-67.5°	19	13	9	5	3	1	0
-70°	15	11	7	4	2	1	0
-72.5°	13	9	6	4	2	1	0
-75°	10	7	5	3	2	1	0
-77.5°	8	6	4	2	2	1	0
-80°	5	4	3	2	2	1	0
-82.5°	4	3	2	2	1	0	0
-85°	2	2	2	1	1	0	0
-87.5°	2	1	1	1	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)