

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: P731748

Luminaire Tested: **NHRS50U33BZ740-VS_75**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731748
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50U33BZ740-VS_75
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 3 AT 4000K WITH VISOR @ 75% output
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	15296 lumens	Max Intensity:	59789.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	135.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.46' x H: 0')		

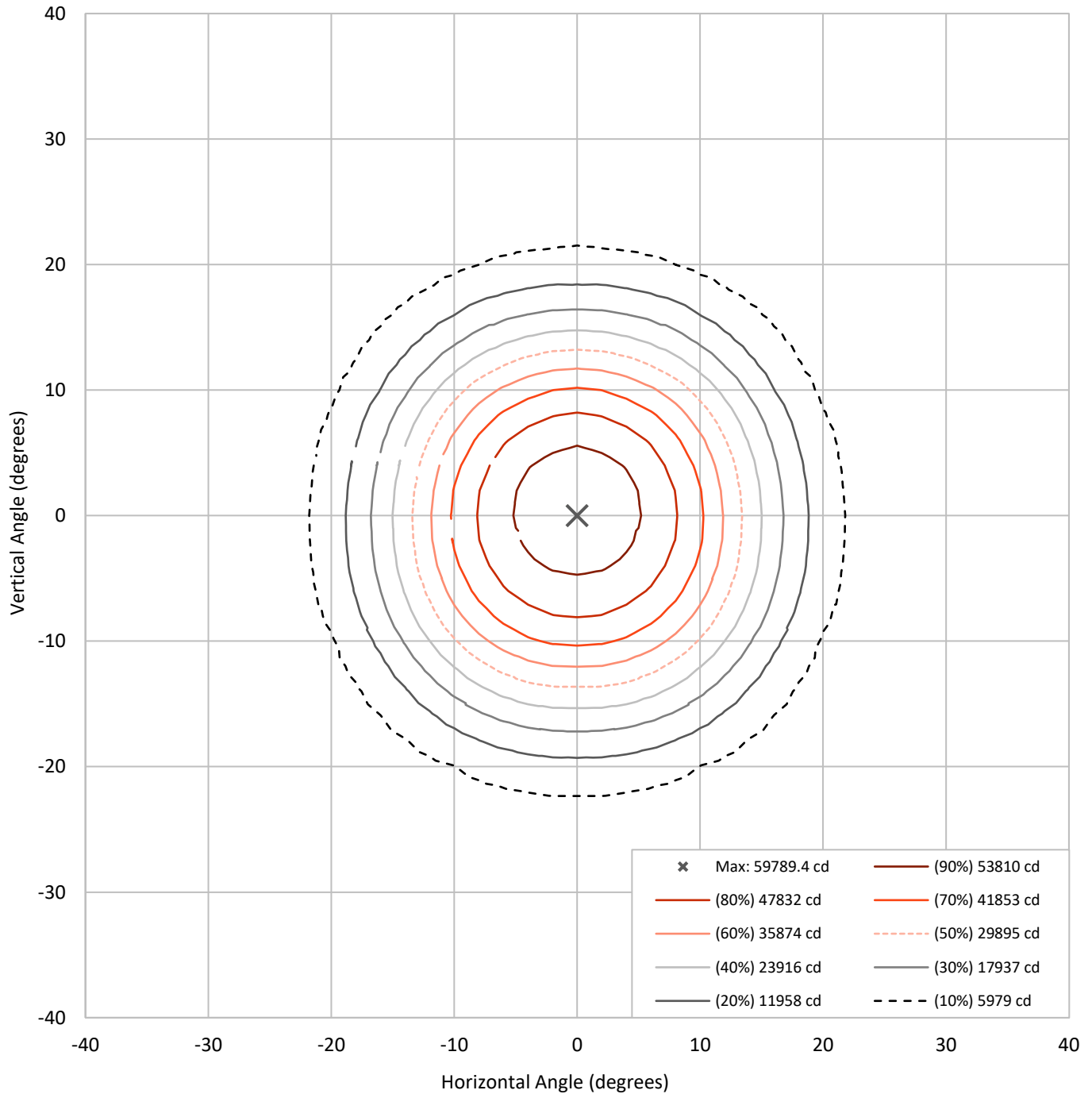
Beam Angle (50%):	26.8°H x 26.9°V	Field Angle (10%):	43.6°H x 43.7°V
Beam Lumens:	7439.2 lumens	Field Lumens:	12044.1 lumens
Beam Efficiency:	48.6%	Field Efficiency:	78.7%

Input Watts (W): 112.9
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



REPORT NUMBER: P731748
CATALOG NUMBER: NHR50U33BZ740-VS_75

Iso-Candela Plot





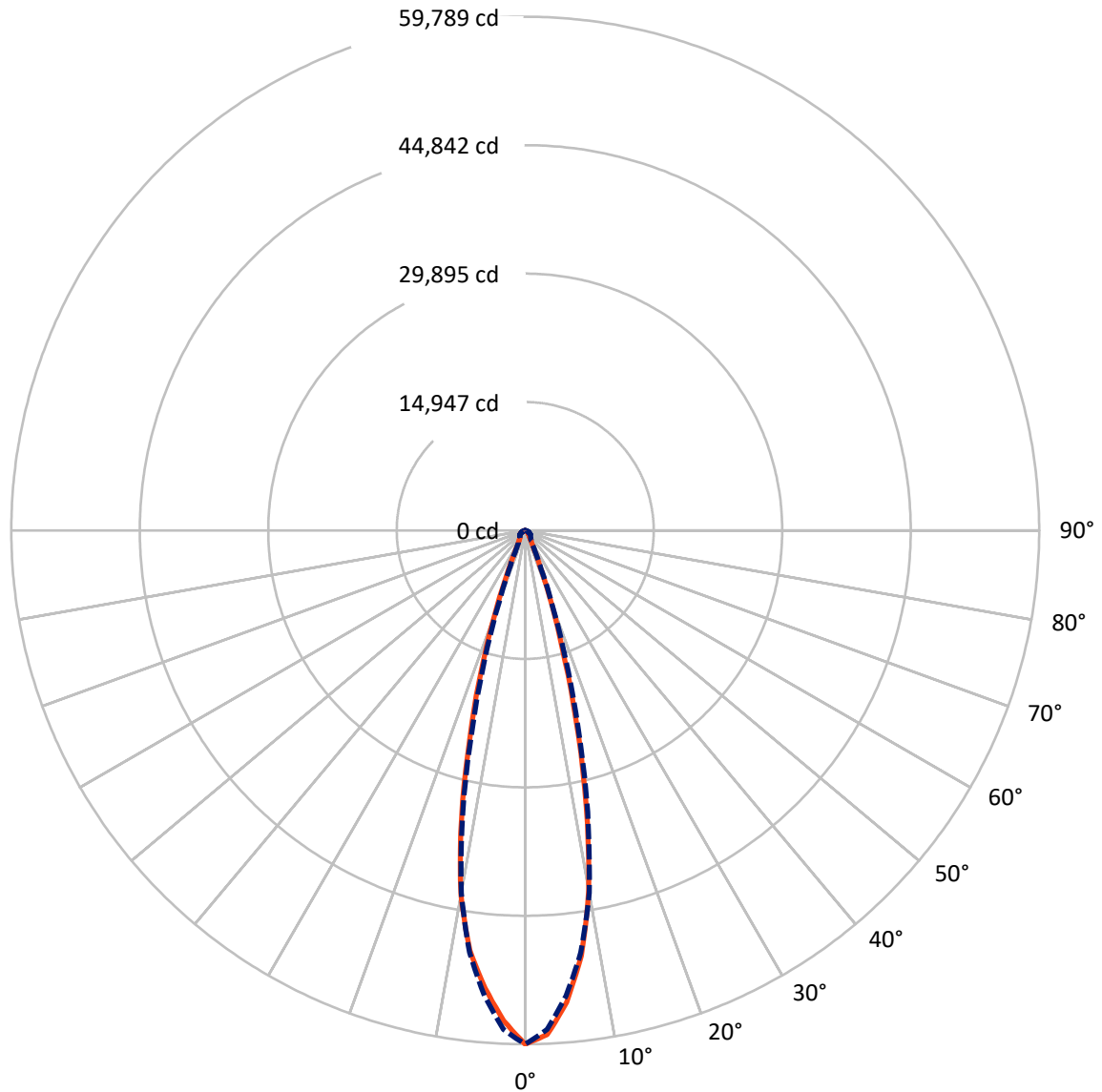
REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-VS_75

Lumen Table

90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
70	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1				
60		0.4	0.9	1.5	2.1	2.7	3.3	3.5	3.5	3.3	2.7	2.1	1.5	0.9		0.4			
50	0.9	1.3	3.1	5.5	8.4	10.9	12.6	13.6	13.6	12.6	10.9	8.4	5.5	3.1	1.3				
40		2.6	6.1	10.8	15.7	19.6	23.2	26.2	26.2	23.2	19.6	15.7	10.8	6.1	2.6				
30	2.3	3.8	8.8	15.1	20.9	29.1	49.5	87.9	87.9	49.5	29.1	20.9	15.1	8.8	3.8				
20		4.8	10.7	17.9	25.1	49.8	239.8	628.1	628.1	239.8	49.8	25.1	17.9	10.7	4.8				
10	3.2	5.3	11.7	19.1	27.8	89.2	627.5	1457.0	1457.0	627.5	89.2	27.8	19.1	11.7	5.3				
0		5.5	12.1	19.4	27.9	91.9	647.1	1456.2	1456.2	647.1	91.9	27.9	19.4	12.1	5.5				
-10	3.2	5.4	11.7	18.9	25.9	52.4	271.6	690.8	690.8	271.6	52.4	25.9	18.9	11.7	5.4				
-20		5.1	10.8	18.0	23.7	32.4	57.5	110.2	110.2	57.5	32.4	23.7	18.0	10.8	5.1				
-30	2.4	4.5	9.6	16.1	22.0	26.3	30.8	34.8	34.8	30.8	26.3	22.0	16.1	9.6	4.5				
-40		3.7	8.0	13.2	18.8	23.0	25.8	27.5	27.5	25.8	23.0	18.8	13.2	8.0	3.7				
-50	1.1	2.7	5.9	9.7	13.8	17.3	19.7	21.2	21.2	19.7	17.3	13.8	9.7	5.9	2.7				
-60		1.6	3.7	6.1	8.6	10.8	12.3	13.0	13.0	12.3	10.8	8.6	6.1	3.7	1.6				
-70	0.2	2.2	6.8	10.9	12.3	10.9	6.8	2.2	0.2	2.2	6.8	10.9	12.3	10.9	6.8				
-80		0.2	2.2	6.8	10.9	12.3	10.9	6.8	2.2	0.2	2.2	6.8	10.9	12.3	10.9				
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

REPORT NUMBER: P731748
CATALOG NUMBER: NHRS50U33BZ740-VS_75

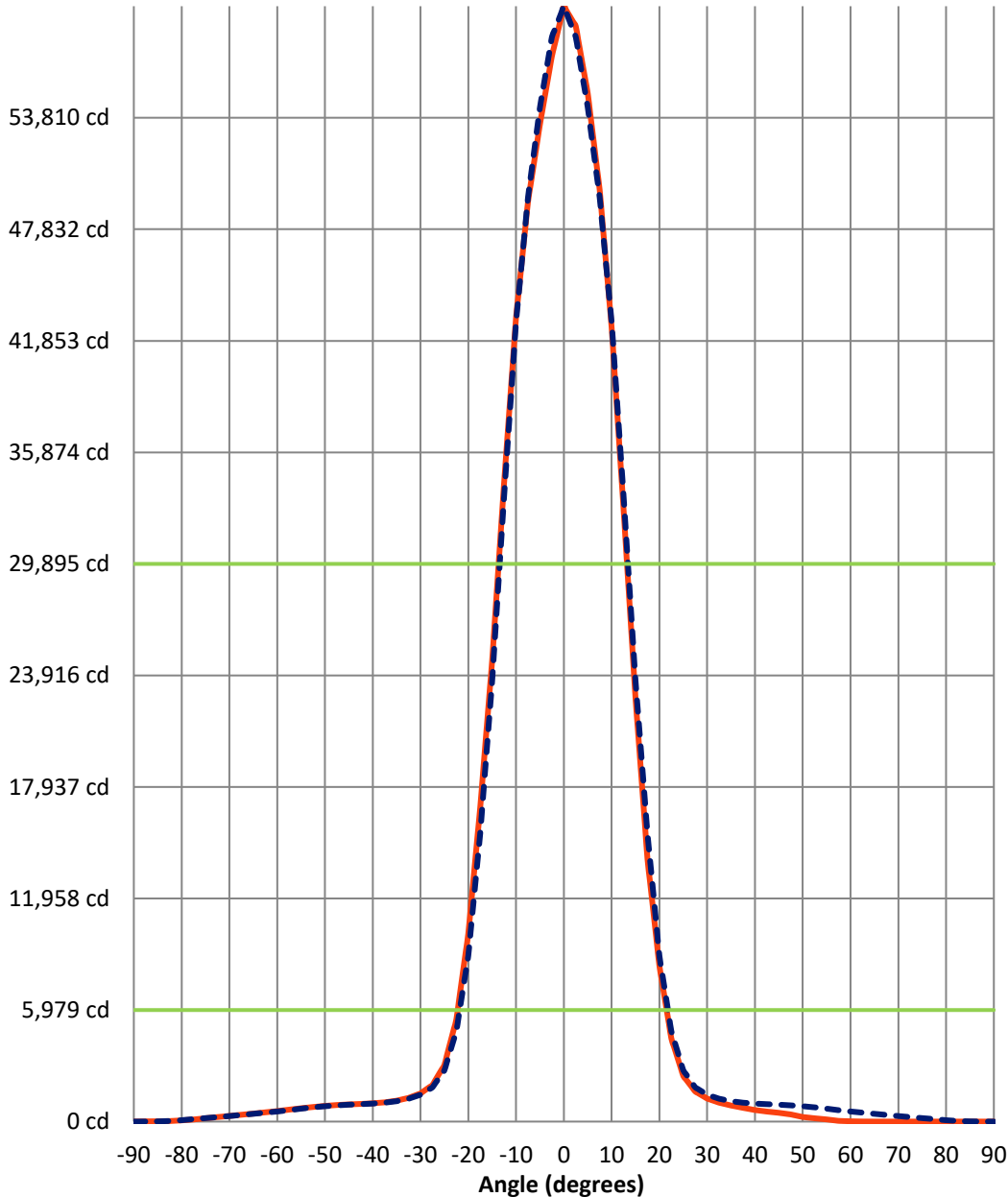
Luminous Intensity Polar Plot



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

REPORT NUMBER: P731748
CATALOG NUMBER: NHRS50U33BZ740-VS_75

Luminous Intensity Plot



Beam:
H Angle: 26.8°
V Angle: 26.9°
Lumens: 7439.2
Efficiency: 48.6%

Field:
H Angle: 43.6°
V Angle: 43.7°
Lumens: 12044.1
Efficiency: 78.7%

Spill:
Lumens: 3251.9
Efficiency: 21.3%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-VS_75

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	1	1	1	1	1
82.5°	0	0	0	0	1	1	1	1	1	1	1
80°	0	0	0	1	1	1	1	1	1	1	1
77.5°	0	0	0	1	1	1	1	1	1	1	1
75°	0	0	1	1	1	1	1	1	1	1	1
72.5°	0	0	1	1	2	2	1	1	1	1	1
70°	0	1	1	1	2	2	2	2	2	2	2
67.5°	0	1	1	2	2	2	2	2	2	2	2
65°	0	1	1	2	2	3	3	2	3	4	3
62.5°	0	1	1	2	3	4	4	3	5	6	6
60°	0	1	1	2	3	6	6	6	7	10	10
57.5°	0	1	2	3	5	8	9	8	12	15	17
55°	0	1	2	3	6	9	13	12	17	21	27
52.5°	0	1	2	4	8	12	16	18	23	32	38
50°	0	1	2	4	10	16	20	26	30	44	56
47.5°	0	1	3	5	12	20	25	34	42	58	77
45°	0	1	3	6	14	23	33	43	57	77	99
42.5°	0	1	4	8	16	28	41	55	72	97	126
40°	0	1	4	9	19	32	50	68	88	118	153
37.5°	0	1	5	11	22	37	59	80	108	141	181
35°	0	1	5	13	26	43	68	94	126	165	208
32.5°	0	1	6	14	29	51	78	107	145	188	231
30°	0	2	6	16	33	58	88	120	163	209	253
27.5°	0	2	6	17	37	65	99	135	181	229	274
25°	0	2	6	19	41	73	109	150	198	248	294
22.5°	0	2	7	20	44	80	119	164	214	265	313
20°	0	2	8	22	48	87	129	178	230	281	331
17.5°	0	2	8	23	52	94	138	190	244	297	347
15°	0	2	9	25	55	101	146	201	257	311	363
12.5°	0	2	9	26	59	107	154	210	268	324	377
10°	0	2	9	27	62	113	161	218	275	334	390
7.5°	0	2	9	29	67	119	168	225	282	341	398
5°	0	2	9	30	69	125	176	232	290	349	405
2.5°	0	2	10	30	71	129	181	235	293	352	412
0°	0	2	10	31	73	133	186	239	296	356	416
-2.5°	0	2	10	32	75	135	188	241	299	359	419
-5°	0	2	11	33	76	137	190	243	301	362	421
-7.5°	0	2	11	34	78	137	189	241	299	360	421
-10°	0	2	11	34	77	138	189	241	299	359	420
-12.5°	0	2	11	34	77	137	189	240	297	358	418
-15°	0	2	11	34	77	136	189	238	294	355	415
-17.5°	0	2	11	34	76	135	187	235	291	350	410
-20°	0	2	11	33	75	133	185	232	286	345	404



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-VS_75

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	2	11	33	73	130	182	228	281	338	397
-25°	0	2	11	32	71	126	178	224	274	331	389
-27.5°	0	2	10	31	69	121	173	218	267	323	380
-30°	0	2	10	30	66	115	168	211	260	313	369
-32.5°	0	2	9	29	62	109	162	205	252	303	357
-35°	0	2	9	27	59	102	155	198	243	292	345
-37.5°	0	2	9	26	54	96	147	190	233	281	331
-40°	0	2	9	23	49	90	137	182	222	268	316
-42.5°	0	2	8	22	45	83	128	173	211	254	299
-45°	0	2	7	20	42	77	118	162	200	239	281
-47.5°	0	2	7	16	39	70	107	151	189	224	264
-50°	0	2	6	15	35	62	98	137	175	209	245
-52.5°	0	2	6	14	31	55	89	125	161	193	228
-55°	0	2	5	13	27	49	79	113	145	177	207
-57.5°	0	2	4	11	23	43	69	99	129	159	188
-60°	0	1	3	10	18	37	59	87	112	140	168
-62.5°	0	1	2	9	16	30	50	73	96	121	147
-65°	0	1	2	7	13	23	41	59	80	101	125
-67.5°	0	1	2	6	12	18	32	48	62	81	102
-70°	0	1	2	4	9	15	23	36	48	61	79
-72.5°	0	1	2	3	7	12	18	24	35	46	56
-75°	0	1	2	2	5	9	14	18	22	30	39
-77.5°	0	1	2	2	3	6	9	13	16	18	23
-80°	0	1	1	2	2	4	6	8	11	13	15
-82.5°	0	0	1	2	2	3	4	5	6	7	9
-85°	0	0	1	1	2	2	2	3	3	4	5
-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



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-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	1	1	1	1	1	1	1	0	0
85°	1	1	1	1	1	1	1	1	0	0	0
82.5°	1	1	1	1	1	1	0	0	0	0	0
80°	1	1	1	1	1	1	0	0	0	0	0
77.5°	1	1	1	1	1	1	0	0	0	0	0
75°	1	1	1	1	1	1	0	0	0	0	0
72.5°	1	1	1	1	1	1	0	0	0	0	0
70°	1	1	1	1	1	1	0	0	0	0	0
67.5°	1	2	2	2	1	1	0	1	1	1	1
65°	2	2	3	3	1	2	2	2	2	2	2
62.5°	3	5	6	6	6	5	6	7	5	6	6
60°	9	9	13	15	13	13	15	17	16	13	18
57.5°	16	17	25	28	29	25	32	34	37	36	38
55°	28	32	41	49	51	50	55	63	66	66	67
52.5°	47	52	66	74	79	82	90	100	107	106	111
50°	68	80	92	104	112	121	132	147	155	160	170
47.5°	94	110	122	136	151	168	186	198	209	225	250
45°	123	141	155	173	195	221	239	251	270	294	320
42.5°	155	172	191	211	247	274	292	308	333	371	393
40°	182	204	227	261	299	324	347	370	413	446	468
37.5°	211	236	264	309	347	377	406	441	484	522	541
35°	239	268	306	352	393	430	463	504	546	583	610
32.5°	267	302	346	391	435	480	517	558	602	640	668
30°	294	334	384	430	479	523	564	609	658	692	718
27.5°	317	367	418	468	519	566	610	662	708	741	766
25°	338	394	451	504	557	607	656	711	753	786	812
22.5°	360	417	476	540	595	648	699	750	791	829	854
20°	381	439	499	564	629	686	738	785	823	856	888
17.5°	401	458	520	587	653	717	772	821	851	879	911
15°	418	476	540	608	676	739	795	843	872	900	932
12.5°	433	492	557	627	696	760	814	856	887	917	956
10°	448	505	571	643	714	778	830	869	899	930	975
7.5°	458	517	585	658	730	794	843	879	909	942	989
5°	466	526	595	671	743	807	853	888	918	952	1000
2.5°	474	535	605	685	755	817	862	899	927	960	1009
0°	479	541	610	692	762	823	869	906	933	965	1013
-2.5°	482	546	616	695	766	825	872	908	935	966	1013
-5°	482	547	617	693	764	823	873	907	934	963	1007
-7.5°	481	547	618	691	761	820	869	904	930	958	1001
-10°	479	544	614	685	755	815	863	900	926	952	992
-12.5°	476	540	608	678	748	808	856	894	922	945	979
-15°	472	533	600	669	738	800	847	886	916	938	965
-17.5°	468	526	590	657	727	791	838	880	909	931	957
-20°	462	518	579	644	712	777	827	869	900	924	946



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-VS_75

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	455	508	566	629	696	760	815	858	891	916	936
-25°	446	498	554	615	679	742	799	845	879	905	926
-27.5°	436	488	541	599	661	723	780	827	864	893	916
-30°	424	476	527	582	642	701	757	806	846	876	901
-32.5°	411	465	512	564	620	678	732	780	823	857	883
-35°	397	448	496	546	600	653	704	752	797	833	862
-37.5°	381	430	479	525	575	624	677	722	766	808	837
-40°	364	413	459	504	550	595	642	688	733	772	809
-42.5°	349	394	439	482	522	564	609	653	695	734	770
-45°	327	373	418	457	494	533	574	616	654	691	727
-47.5°	306	351	394	430	465	502	538	575	612	647	682
-50°	285	327	367	401	435	469	504	534	567	601	633
-52.5°	263	301	338	370	402	433	465	494	522	550	581
-55°	239	274	307	338	369	398	425	451	477	503	528
-57.5°	218	248	277	306	334	360	385	409	433	455	477
-60°	195	221	247	274	299	324	345	366	387	408	428
-62.5°	171	195	218	242	265	286	305	323	343	359	378
-65°	147	168	190	211	232	248	265	281	296	312	328
-67.5°	122	140	161	181	198	212	226	240	253	266	278
-70°	96	112	128	145	162	175	187	198	211	221	232
-72.5°	69	83	97	110	122	135	147	156	165	175	185
-75°	48	56	66	76	87	95	104	113	121	129	136
-77.5°	30	37	43	48	53	60	67	73	79	83	87
-80°	16	18	23	27	31	34	37	39	41	44	48
-82.5°	11	12	13	14	15	16	16	18	20	23	24
-85°	6	6	8	9	9	10	10	11	11	12	12
-87.5°	2	3	4	4	5	5	6	6	6	6	7
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-VS_75

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°	2	1	1	1	0	1	1	1	1	1	1
62.5°	6	4	5	6	5	4	6	6	6	5	5
60°	19	16	15	17	17	15	16	17	16	16	16
57.5°	40	37	35	41	41	37	39	46	48	48	48
55°	72	76	76	81	87	93	97	101	103	105	109
52.5°	121	129	130	136	151	155	153	163	167	166	168
50°	189	197	207	219	229	235	236	243	249	250	251
47.5°	263	277	291	306	317	326	338	348	349	352	359
45°	333	350	370	386	398	409	418	429	436	443	448
42.5°	402	426	451	462	465	482	497	502	512	518	519
40°	486	511	533	543	554	571	580	581	588	599	602
37.5°	566	596	617	631	642	657	665	676	690	699	706
35°	637	663	690	700	716	731	748	765	783	801	816
32.5°	692	718	740	758	776	799	824	854	881	912	944
30°	739	766	791	812	840	878	918	968	1017	1063	1117
27.5°	789	815	844	878	922	975	1049	1120	1205	1270	1381
25°	837	866	907	958	1022	1113	1218	1326	1484	1625	1865
22.5°	880	919	975	1045	1145	1275	1431	1643	1960	2345	2847
20°	922	971	1043	1147	1282	1454	1724	2180	2761	3766	4779
17.5°	958	1026	1116	1240	1413	1693	2200	3005	4296	6357	8537
15°	987	1068	1185	1345	1594	2036	2810	4306	6991	10299	14167
12.5°	1017	1109	1243	1431	1762	2460	3875	6405	10312	15528	20758
10°	1044	1149	1305	1557	2040	3049	5024	8702	14314	21102	27657
7.5°	1063	1180	1357	1662	2314	3755	6604	11469	18224	26050	34067
5°	1077	1201	1396	1756	2538	4288	7770	13600	21267	30148	39256
2.5°	1089	1220	1430	1824	2687	4621	8516	14882	23019	32608	41987
0°	1093	1226	1439	1836	2749	4844	8889	15457	23639	33533	42852
-2.5°	1093	1222	1442	1844	2689	4755	8759	15264	23224	33200	42338
-5°	1084	1206	1409	1782	2583	4439	8243	14318	21913	31088	39748
-7.5°	1073	1187	1370	1690	2386	3942	7114	12322	19283	27168	35379
-10°	1056	1160	1320	1587	2117	3248	5498	9666	15670	22560	29339
-12.5°	1035	1124	1259	1456	1823	2623	4270	7224	11680	17308	22822
-15°	1012	1088	1205	1374	1651	2162	3062	4914	8154	12091	16386
-17.5°	994	1056	1148	1275	1459	1791	2394	3402	5093	7794	10528
-20°	975	1020	1095	1198	1339	1536	1855	2420	3136	4560	5889



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-VS_75

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	960	995	1048	1123	1229	1373	1553	1818	2204	2710	3426
-25°	946	970	1009	1067	1139	1238	1360	1502	1704	1904	2239
-27.5°	934	954	978	1017	1072	1130	1214	1303	1415	1511	1665
-30°	922	939	959	982	1016	1056	1105	1166	1229	1290	1368
-32.5°	907	926	942	959	975	1002	1029	1068	1107	1148	1190
-35°	888	909	927	938	950	964	980	1001	1021	1049	1074
-37.5°	864	888	905	918	927	936	947	957	968	985	999
-40°	836	861	879	893	904	914	922	929	936	946	954
-42.5°	802	826	847	863	877	888	896	904	911	918	923
-45°	762	786	808	826	844	854	865	876	883	890	896
-47.5°	711	738	760	781	799	813	826	837	846	854	862
-50°	660	685	708	728	746	762	777	789	798	806	816
-52.5°	609	630	652	672	689	704	719	730	739	747	757
-55°	552	574	593	611	628	642	655	665	674	681	692
-57.5°	499	519	538	553	567	580	590	599	607	612	621
-60°	448	466	482	496	508	518	527	534	540	544	550
-62.5°	396	412	426	440	451	462	468	472	476	479	484
-65°	344	359	373	384	396	405	410	415	417	420	423
-67.5°	292	305	317	328	338	346	352	356	359	362	364
-70°	242	252	261	270	278	286	291	295	297	300	303
-72.5°	193	201	209	216	222	227	231	234	236	239	240
-75°	144	151	156	161	165	168	172	174	176	178	180
-77.5°	90	96	101	105	108	110	112	113	113	114	115
-80°	51	54	56	58	59	60	62	62	62	64	65
-82.5°	25	27	27	27	27	28	28	27	27	28	28
-85°	13	13	13	13	13	13	13	14	14	14	14
-87.5°	8	8	9	9	9	9	10	10	11	11	11
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-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	4	4	4	4	4	5	5	5	6	6
60°	16	16	16	16	16	16	16	16	16	16	17
57.5°	44	39	38	38	38	39	44	48	48	48	46
55°	112	114	116	115	116	114	112	109	105	103	101
52.5°	171	172	175	176	175	172	171	168	166	167	163
50°	250	243	243	246	243	243	250	251	250	249	243
47.5°	370	377	384	382	384	377	370	359	352	349	348
45°	456	461	466	469	466	461	456	448	443	436	429
42.5°	526	529	533	536	533	529	526	519	518	512	502
40°	610	615	619	618	619	615	610	602	599	588	581
37.5°	716	725	732	736	732	725	716	706	699	690	676
35°	832	847	860	861	860	847	832	816	801	783	765
32.5°	968	992	1011	1013	1011	992	968	944	912	881	854
30°	1156	1190	1215	1233	1215	1190	1156	1117	1063	1017	968
27.5°	1463	1535	1585	1612	1585	1535	1463	1381	1270	1205	1120
25°	2086	2248	2344	2449	2344	2248	2086	1865	1625	1484	1326
22.5°	3443	3873	4133	4458	4133	3873	3443	2847	2345	1960	1643
20°	6269	7321	7836	8349	7836	7321	6269	4779	3766	2761	2180
17.5°	11170	12879	14223	14094	14223	12879	11170	8537	6357	4296	3005
15°	17853	20480	22139	22711	22139	20480	17853	14167	10299	6991	4306
12.5°	25543	29542	32264	32820	32264	29542	25543	20758	15528	10312	6405
10°	34129	38632	41633	42571	41633	38632	34129	27657	21102	14314	8702
7.5°	41379	46198	48843	49937	48843	46198	41379	34067	26050	18224	11469
5°	46186	51265	53837	55123	53837	51265	46186	39256	30148	21267	13600
2.5°	48974	53802	57389	58716	57389	53802	48974	41987	32608	23019	14882
0°	49534	54371	58133	59789	58133	54371	49534	42852	33533	23639	15457
-2.5°	48934	53205	56249	57112	56249	53205	48934	42338	33200	23224	15264
-5°	46558	50700	52939	53466	52939	50700	46558	39748	31088	21913	14318
-7.5°	42062	46467	48816	49309	48816	46467	42062	35379	27168	19283	12322
-10°	35582	40099	42531	43104	42531	40099	35582	29339	22560	15670	9666
-12.5°	27788	31775	34055	34256	34055	31775	27788	22822	17308	11680	7224
-15°	20282	23198	24842	24734	24842	23198	20282	16386	12091	8154	4914
-17.5°	13310	15358	16482	16845	16482	15358	13310	10528	7794	5093	3402
-20°	7780	9121	9981	10071	9981	9121	7780	5889	4560	3136	2420



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-VS_75

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	4328	5028	5477	5470	5477	5028	4328	3426	2710	2204	1818
-25°	2580	2844	3005	3033	3005	2844	2580	2239	1904	1704	1502
-27.5°	1790	1892	1962	1961	1962	1892	1790	1665	1511	1415	1303
-30°	1429	1479	1523	1509	1523	1479	1429	1368	1290	1229	1166
-32.5°	1225	1251	1271	1270	1271	1251	1225	1190	1148	1107	1068
-35°	1094	1111	1124	1121	1124	1111	1094	1074	1049	1021	1001
-37.5°	1011	1021	1029	1031	1029	1021	1011	999	985	968	957
-40°	964	971	977	979	977	971	964	954	946	936	929
-42.5°	931	938	944	946	944	938	931	923	918	911	904
-45°	904	911	917	920	917	911	904	896	890	883	876
-47.5°	872	880	886	888	886	880	872	862	854	846	837
-50°	826	834	840	840	840	834	826	816	806	798	789
-52.5°	766	773	778	780	778	773	766	757	747	739	730
-55°	700	707	713	713	713	707	700	692	681	674	665
-57.5°	628	632	638	639	638	632	628	621	612	607	599
-60°	555	559	562	561	562	559	555	550	544	540	534
-62.5°	487	490	494	495	494	490	487	484	479	476	472
-65°	426	427	428	426	428	427	426	423	420	417	415
-67.5°	366	368	367	366	367	368	366	364	362	359	356
-70°	304	306	304	302	304	306	304	303	300	297	295
-72.5°	242	243	243	241	243	243	242	240	239	236	234
-75°	181	182	181	179	181	182	181	180	178	176	174
-77.5°	115	115	113	112	113	115	115	115	114	113	113
-80°	66	66	65	64	65	66	66	65	64	62	62
-82.5°	29	29	29	28	29	29	29	28	28	27	27
-85°	15	15	15	15	15	15	15	14	14	14	14
-87.5°	12	12	12	12	12	12	12	11	11	11	10
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-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	1	1
85°	0	0	0	0	0	0	0	0	0	0	1
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	1	1	1	1
65°	1	1	0	1	1	1	2	2	2	2	2
62.5°	6	4	5	6	5	4	6	6	6	5	7
60°	16	15	17	17	15	16	19	18	13	16	17
57.5°	39	37	41	41	35	37	40	38	36	37	34
55°	97	93	87	81	76	76	72	67	66	66	63
52.5°	153	155	151	136	130	129	121	111	106	107	100
50°	236	235	229	219	207	197	189	170	160	155	147
47.5°	338	326	317	306	291	277	263	250	225	209	198
45°	418	409	398	386	370	350	333	320	294	270	251
42.5°	497	482	465	462	451	426	402	393	371	333	308
40°	580	571	554	543	533	511	486	468	446	413	370
37.5°	665	657	642	631	617	596	566	541	522	484	441
35°	748	731	716	700	690	663	637	610	583	546	504
32.5°	824	799	776	758	740	718	692	668	640	602	558
30°	918	878	840	812	791	766	739	718	692	658	609
27.5°	1049	975	922	878	844	815	789	766	741	708	662
25°	1218	1113	1022	958	907	866	837	812	786	753	711
22.5°	1431	1275	1145	1045	975	919	880	854	829	791	750
20°	1724	1454	1282	1147	1043	971	922	888	856	823	785
17.5°	2200	1693	1413	1240	1116	1026	958	911	879	851	821
15°	2810	2036	1594	1345	1185	1068	987	932	900	872	843
12.5°	3875	2460	1762	1431	1243	1109	1017	956	917	887	856
10°	5024	3049	2040	1557	1305	1149	1044	975	930	899	869
7.5°	6604	3755	2314	1662	1357	1180	1063	989	942	909	879
5°	7770	4288	2538	1756	1396	1201	1077	1000	952	918	888
2.5°	8516	4621	2687	1824	1430	1220	1089	1009	960	927	899
0°	8889	4844	2749	1836	1439	1226	1093	1013	965	933	906
-2.5°	8759	4755	2689	1844	1442	1222	1093	1013	966	935	908
-5°	8243	4439	2583	1782	1409	1206	1084	1007	963	934	907
-7.5°	7114	3942	2386	1690	1370	1187	1073	1001	958	930	904
-10°	5498	3248	2117	1587	1320	1160	1056	992	952	926	900
-12.5°	4270	2623	1823	1456	1259	1124	1035	979	945	922	894
-15°	3062	2162	1651	1374	1205	1088	1012	965	938	916	886
-17.5°	2394	1791	1459	1275	1148	1056	994	957	931	909	880
-20°	1855	1536	1339	1198	1095	1020	975	946	924	900	869



REPORT NUMBER: P731748

CATALOG NUMBER: NHRS50U33BZ740-VS_75

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1553	1373	1229	1123	1048	995	960	936	916	891	858
-25°	1360	1238	1139	1067	1009	970	946	926	905	879	845
-27.5°	1214	1130	1072	1017	978	954	934	916	893	864	827
-30°	1105	1056	1016	982	959	939	922	901	876	846	806
-32.5°	1029	1002	975	959	942	926	907	883	857	823	780
-35°	980	964	950	938	927	909	888	862	833	797	752
-37.5°	947	936	927	918	905	888	864	837	808	766	722
-40°	922	914	904	893	879	861	836	809	772	733	688
-42.5°	896	888	877	863	847	826	802	770	734	695	653
-45°	865	854	844	826	808	786	762	727	691	654	616
-47.5°	826	813	799	781	760	738	711	682	647	612	575
-50°	777	762	746	728	708	685	660	633	601	567	534
-52.5°	719	704	689	672	652	630	609	581	550	522	494
-55°	655	642	628	611	593	574	552	528	503	477	451
-57.5°	590	580	567	553	538	519	499	477	455	433	409
-60°	527	518	508	496	482	466	448	428	408	387	366
-62.5°	468	462	451	440	426	412	396	378	359	343	323
-65°	410	405	396	384	373	359	344	328	312	296	281
-67.5°	352	346	338	328	317	305	292	278	266	253	240
-70°	291	286	278	270	261	252	242	232	221	211	198
-72.5°	231	227	222	216	209	201	193	185	175	165	156
-75°	172	168	165	161	156	151	144	136	129	121	113
-77.5°	112	110	108	105	101	96	90	87	83	79	73
-80°	62	60	59	58	56	54	51	48	44	41	39
-82.5°	28	28	27	27	27	27	25	24	23	20	18
-85°	13	13	13	13	13	13	13	12	12	11	11
-87.5°	10	9	9	9	9	8	8	7	6	6	6
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-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°	1	1	1	1	1	0	0	0	0	0	0
85°	1	1	1	1	1	1	1	1	1	1	1
82.5°	0	1	1	1	1	1	1	1	1	1	1
80°	0	1	1	1	1	1	1	1	1	1	1
77.5°	0	1	1	1	1	1	1	1	1	1	1
75°	0	1	1	1	1	1	1	1	1	1	1
72.5°	0	1	1	1	1	1	1	1	1	1	1
70°	0	1	1	1	1	1	1	2	2	2	2
67.5°	0	1	1	2	2	2	1	2	2	2	2
65°	2	2	1	3	3	2	2	3	4	3	2
62.5°	6	5	6	6	6	5	3	6	6	5	3
60°	15	13	13	15	13	9	9	10	10	7	6
57.5°	32	25	29	28	25	17	16	17	15	12	8
55°	55	50	51	49	41	32	28	27	21	17	12
52.5°	90	82	79	74	66	52	47	38	32	23	18
50°	132	121	112	104	92	80	68	56	44	30	26
47.5°	186	168	151	136	122	110	94	77	58	42	34
45°	239	221	195	173	155	141	123	99	77	57	43
42.5°	292	274	247	211	191	172	155	126	97	72	55
40°	347	324	299	261	227	204	182	153	118	88	68
37.5°	406	377	347	309	264	236	211	181	141	108	80
35°	463	430	393	352	306	268	239	208	165	126	94
32.5°	517	480	435	391	346	302	267	231	188	145	107
30°	564	523	479	430	384	334	294	253	209	163	120
27.5°	610	566	519	468	418	367	317	274	229	181	135
25°	656	607	557	504	451	394	338	294	248	198	150
22.5°	699	648	595	540	476	417	360	313	265	214	164
20°	738	686	629	564	499	439	381	331	281	230	178
17.5°	772	717	653	587	520	458	401	347	297	244	190
15°	795	739	676	608	540	476	418	363	311	257	201
12.5°	814	760	696	627	557	492	433	377	324	268	210
10°	830	778	714	643	571	505	448	390	334	275	218
7.5°	843	794	730	658	585	517	458	398	341	282	225
5°	853	807	743	671	595	526	466	405	349	290	232
2.5°	862	817	755	685	605	535	474	412	352	293	235
0°	869	823	762	692	610	541	479	416	356	296	239
-2.5°	872	825	766	695	616	546	482	419	359	299	241
-5°	873	823	764	693	617	547	482	421	362	301	243
-7.5°	869	820	761	691	618	547	481	421	360	299	241
-10°	863	815	755	685	614	544	479	420	359	299	241
-12.5°	856	808	748	678	608	540	476	418	358	297	240
-15°	847	800	738	669	600	533	472	415	355	294	238
-17.5°	838	791	727	657	590	526	468	410	350	291	235
-20°	827	777	712	644	579	518	462	404	345	286	232



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-VS_75

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	815	760	696	629	566	508	455	397	338	281	228
-25°	799	742	679	615	554	498	446	389	331	274	224
-27.5°	780	723	661	599	541	488	436	380	323	267	218
-30°	757	701	642	582	527	476	424	369	313	260	211
-32.5°	732	678	620	564	512	465	411	357	303	252	205
-35°	704	653	600	546	496	448	397	345	292	243	198
-37.5°	677	624	575	525	479	430	381	331	281	233	190
-40°	642	595	550	504	459	413	364	316	268	222	182
-42.5°	609	564	522	482	439	394	349	299	254	211	173
-45°	574	533	494	457	418	373	327	281	239	200	162
-47.5°	538	502	465	430	394	351	306	264	224	189	151
-50°	504	469	435	401	367	327	285	245	209	175	137
-52.5°	465	433	402	370	338	301	263	228	193	161	125
-55°	425	398	369	338	307	274	239	207	177	145	113
-57.5°	385	360	334	306	277	248	218	188	159	129	99
-60°	345	324	299	274	247	221	195	168	140	112	87
-62.5°	305	286	265	242	218	195	171	147	121	96	73
-65°	265	248	232	211	190	168	147	125	101	80	59
-67.5°	226	212	198	181	161	140	122	102	81	62	48
-70°	187	175	162	145	128	112	96	79	61	48	36
-72.5°	147	135	122	110	97	83	69	56	46	35	24
-75°	104	95	87	76	66	56	48	39	30	22	18
-77.5°	67	60	53	48	43	37	30	23	18	16	13
-80°	37	34	31	27	23	18	16	15	13	11	8
-82.5°	16	16	15	14	13	12	11	9	7	6	5
-85°	10	10	9	9	8	6	6	5	4	3	3
-87.5°	6	5	5	4	4	3	2	2	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-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°	1	0	0	0	0	0	0
82.5°	1	1	1	0	0	0	0
80°	1	1	1	1	0	0	0
77.5°	1	1	1	1	0	0	0
75°	1	1	1	1	1	0	0
72.5°	1	2	2	1	1	0	0
70°	2	2	2	1	1	1	0
67.5°	2	2	2	2	1	1	0
65°	3	3	2	2	1	1	0
62.5°	4	4	3	2	1	1	0
60°	6	6	3	2	1	1	0
57.5°	9	8	5	3	2	1	0
55°	13	9	6	3	2	1	0
52.5°	16	12	8	4	2	1	0
50°	20	16	10	4	2	1	0
47.5°	25	20	12	5	3	1	0
45°	33	23	14	6	3	1	0
42.5°	41	28	16	8	4	1	0
40°	50	32	19	9	4	1	0
37.5°	59	37	22	11	5	1	0
35°	68	43	26	13	5	1	0
32.5°	78	51	29	14	6	1	0
30°	88	58	33	16	6	2	0
27.5°	99	65	37	17	6	2	0
25°	109	73	41	19	6	2	0
22.5°	119	80	44	20	7	2	0
20°	129	87	48	22	8	2	0
17.5°	138	94	52	23	8	2	0
15°	146	101	55	25	9	2	0
12.5°	154	107	59	26	9	2	0
10°	161	113	62	27	9	2	0
7.5°	168	119	67	29	9	2	0
5°	176	125	69	30	9	2	0
2.5°	181	129	71	30	10	2	0
0°	186	133	73	31	10	2	0
-2.5°	188	135	75	32	10	2	0
-5°	190	137	76	33	11	2	0
-7.5°	189	137	78	34	11	2	0
-10°	189	138	77	34	11	2	0
-12.5°	189	137	77	34	11	2	0
-15°	189	136	77	34	11	2	0
-17.5°	187	135	76	34	11	2	0
-20°	185	133	75	33	11	2	0



REPORT NUMBER: P731748
 CATALOG NUMBER: NHRS50U33BZ740-VS_75

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	182	130	73	33	11	2	0
-25°	178	126	71	32	11	2	0
-27.5°	173	121	69	31	10	2	0
-30°	168	115	66	30	10	2	0
-32.5°	162	109	62	29	9	2	0
-35°	155	102	59	27	9	2	0
-37.5°	147	96	54	26	9	2	0
-40°	137	90	49	23	9	2	0
-42.5°	128	83	45	22	8	2	0
-45°	118	77	42	20	7	2	0
-47.5°	107	70	39	16	7	2	0
-50°	98	62	35	15	6	2	0
-52.5°	89	55	31	14	6	2	0
-55°	79	49	27	13	5	2	0
-57.5°	69	43	23	11	4	2	0
-60°	59	37	18	10	3	1	0
-62.5°	50	30	16	9	2	1	0
-65°	41	23	13	7	2	1	0
-67.5°	32	18	12	6	2	1	0
-70°	23	15	9	4	2	1	0
-72.5°	18	12	7	3	2	1	0
-75°	14	9	5	2	2	1	0
-77.5°	9	6	3	2	2	1	0
-80°	6	4	2	2	1	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)