

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: P731740

Luminaire Tested: **NHRS50U33BZ730-VS_75**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731740
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50U33BZ730-VS_75
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 3 AT 3000K WITH VISOR @ 75% output
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	13513 lumens	Max Intensity:	52819.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	116.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.46' x H: 0')		

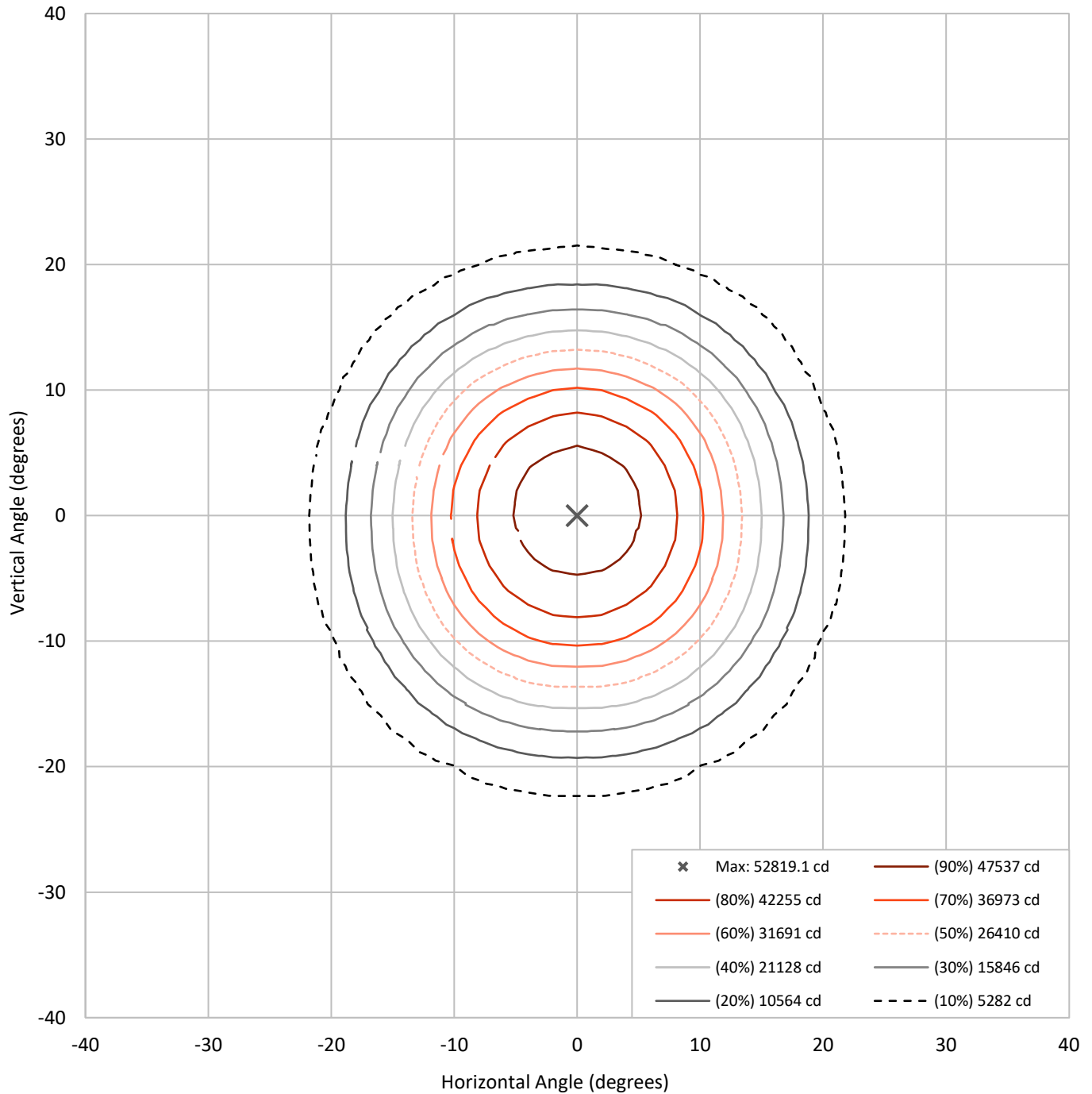
Beam Angle (50%):	26.8°H x 26.9°V	Field Angle (10%):	43.6°H x 43.7°V
Beam Lumens:	6571.9 lumens	Field Lumens:	10640.1 lumens
Beam Efficiency:	48.6%	Field Efficiency:	78.7%

Input Watts (W): 116.1
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



REPORT NUMBER: P731740
CATALOG NUMBER: NHRS50U33BZ730-VS_75

Iso-Candela Plot





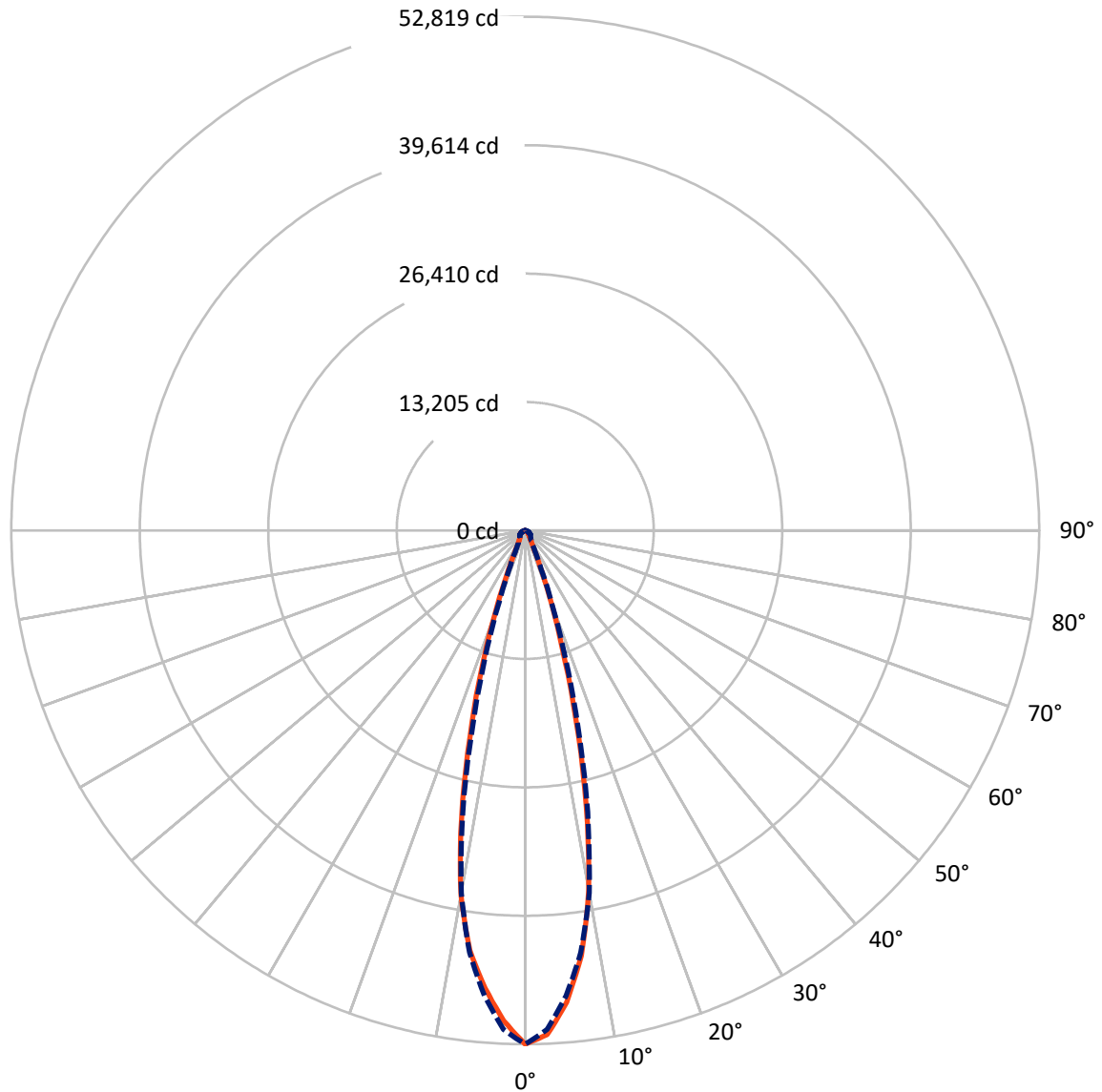
REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-VS_75

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		0.3	0.8	1.3	1.8	2.4	2.9	3.1	3.1	2.9	2.4	1.8	1.3	0.8		0.3			
50	0.8	1.2	2.8	4.9	7.4	9.6	11.1	12.0	12.0	11.1	9.6	7.4	4.9	2.8	1.2	0.8			
40		2.3	5.4	9.6	13.8	17.3	20.5	23.1	23.1	20.5	17.3	13.8	9.6	5.4	2.3				
30	2.0	3.4	7.8	13.4	18.5	25.7	43.7	77.6	77.6	43.7	25.7	18.5	13.4	7.8	3.4	2.0			
20		4.2	9.4	15.8	22.2	44.0	211.9	554.8	554.8	211.9	44.0	22.2	15.8	9.4	4.2				
10	2.8	4.7	10.4	16.8	24.5	78.8	554.3	1287.1	1287.1	554.3	78.8	24.5	16.8	10.4	4.7	2.8			
0		4.9	10.7	17.1	24.7	81.2	571.6	1286.5	1286.5	571.6	81.2	24.7	17.1	10.7	4.9				
-10	2.8	4.8	10.4	16.7	22.9	46.3	239.9	610.3	610.3	239.9	46.3	22.9	16.7	10.4	4.8	2.8			
-20		4.5	9.6	15.9	21.0	28.7	50.8	97.4	97.4	50.8	28.7	21.0	15.9	9.6	4.5				
-30	2.1	4.0	8.5	14.2	19.4	23.3	27.2	30.7	30.7	27.2	23.3	19.4	14.2	8.5	4.0	2.1			
-40		3.3	7.1	11.7	16.6	20.3	22.7	24.3	24.3	22.7	20.3	16.6	11.7	7.1	3.3				
-50	1.0	2.4	5.2	8.6	12.2	15.3	17.4	18.8	18.8	17.4	15.3	12.2	8.6	5.2	2.4	1.0			
-60		1.4	3.3	5.4	7.6	9.6	10.8	11.5	11.5	10.8	9.6	7.6	5.4	3.3	1.4				
-70	0.1	1.4	3.3	5.4	7.6	9.6	10.8	11.5	11.5	10.8	9.6	7.6	5.4	3.3	1.4	0.1			
-80		0.1	2.0	6.0	9.6	10.8	9.6	6.0	2.0	0.1	0.1	2.0	6.0	9.6	10.8		9.6	6.0	2.0
-90	0.1	2.0	6.0	9.6	10.8	9.6	6.0	2.0	0.1	0.1	2.0	6.0	9.6	10.8	9.6	6.0	2.0	0.1	
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

REPORT NUMBER: P731740
CATALOG NUMBER: NHRS50U33BZ730-VS_75

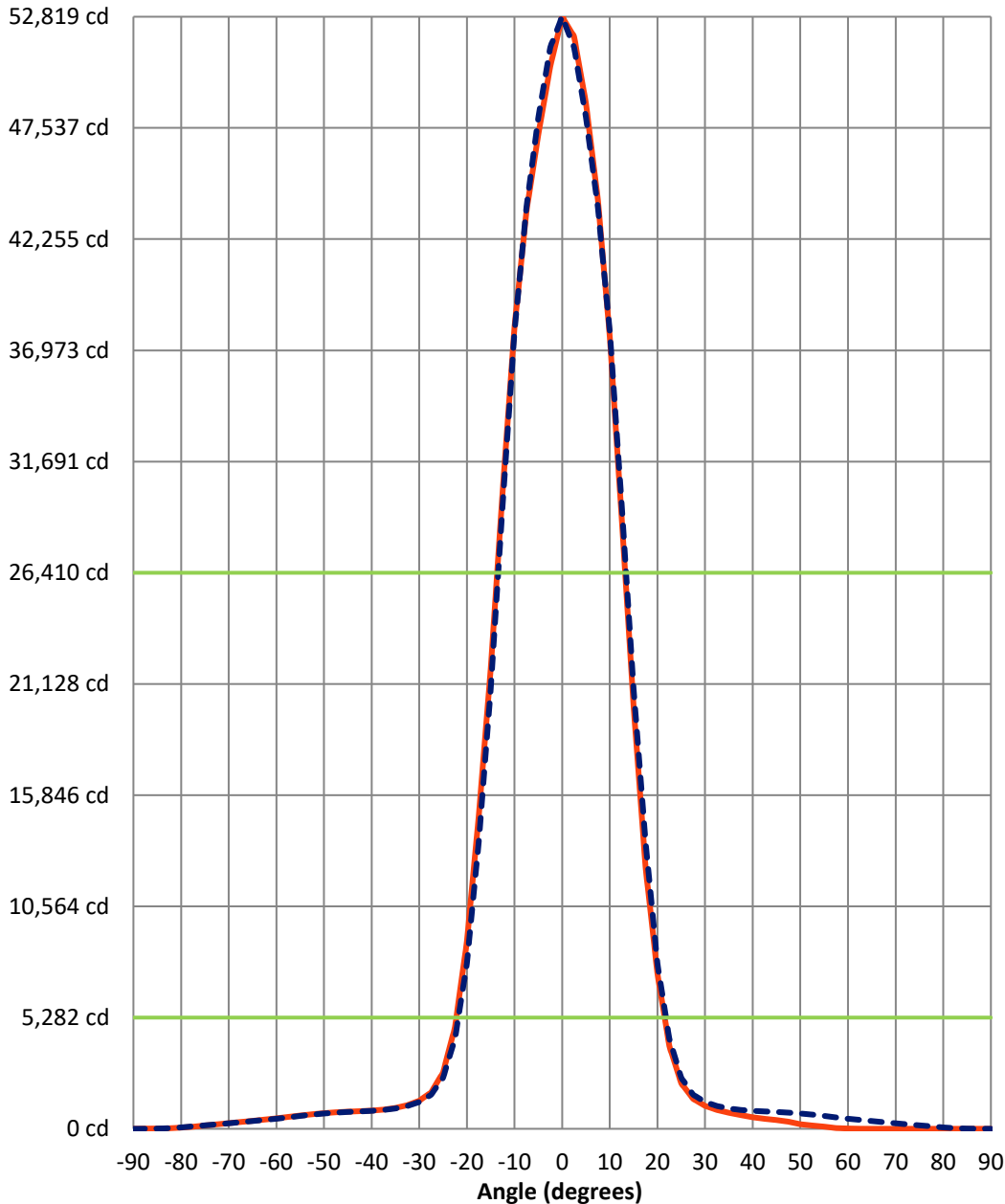
Luminous Intensity Polar Plot



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

REPORT NUMBER: P731740
CATALOG NUMBER: NHRS50U33BZ730-VS_75

Luminous Intensity Plot



Beam:
H Angle: 26.8°
V Angle: 26.9°
Lumens: 6571.9
Efficiency: 48.6%

Field:
H Angle: 43.6°
V Angle: 43.7°
Lumens: 10640.1
Efficiency: 78.7%

Spill:
Lumens: 2872.9
Efficiency: 21.3%

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



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-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	1	2	1	1	1	1	1
70°	0	1	1	1	2	2	1	2	2	2	2
67.5°	0	1	1	1	2	2	2	2	2	2	2
65°	0	1	1	2	2	2	3	2	3	3	3
62.5°	0	1	1	2	2	4	4	3	5	6	6
60°	0	1	1	2	3	6	6	6	6	9	9
57.5°	0	1	2	2	4	7	8	7	10	13	16
55°	0	1	2	3	6	9	11	10	15	19	23
52.5°	0	1	2	3	7	10	14	16	20	29	34
50°	0	1	2	3	9	13	18	23	27	39	50
47.5°	0	1	2	4	10	17	22	30	37	51	68
45°	0	1	3	6	13	20	29	38	51	68	87
42.5°	0	1	3	6	14	24	37	48	63	86	111
40°	0	1	4	8	16	28	44	60	78	104	135
37.5°	0	1	4	9	20	32	52	71	94	124	160
35°	0	1	5	11	23	38	60	83	112	145	184
32.5°	0	1	5	13	26	44	69	94	127	165	204
30°	0	2	6	14	29	51	78	106	143	185	224
27.5°	0	2	6	16	32	57	87	119	159	203	242
25°	0	2	6	17	35	64	97	132	175	219	260
22.5°	0	2	6	18	39	70	105	144	189	235	276
20°	0	2	7	20	42	76	114	156	203	249	292
17.5°	0	2	7	21	45	83	122	168	216	262	306
15°	0	2	8	22	48	89	129	178	228	275	320
12.5°	0	2	8	23	52	94	136	185	237	287	333
10°	0	2	9	24	55	100	143	192	243	295	344
7.5°	0	2	9	26	59	105	148	198	250	301	352
5°	0	2	9	27	61	110	155	204	256	308	358
2.5°	0	2	9	27	62	114	160	207	259	311	364
0°	0	2	9	28	65	117	164	211	261	314	368
-2.5°	0	2	9	29	66	119	166	212	264	317	371
-5°	0	2	10	30	68	122	168	214	265	320	372
-7.5°	0	2	10	30	69	122	168	213	264	318	373
-10°	0	2	10	30	68	122	168	213	264	318	372
-12.5°	0	2	10	30	68	122	168	211	262	316	370
-15°	0	2	10	30	68	121	167	210	260	313	366
-17.5°	0	2	10	30	67	119	165	208	257	310	363
-20°	0	2	10	30	66	118	164	205	253	304	357



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-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	10	29	65	115	161	202	248	299	351
-25°	0	2	9	28	63	112	157	198	243	292	344
-27.5°	0	2	9	27	61	107	153	193	236	285	335
-30°	0	2	9	27	58	101	149	187	230	277	326
-32.5°	0	2	9	26	55	96	143	181	223	268	315
-35°	0	2	9	24	52	90	137	175	215	259	304
-37.5°	0	2	9	23	48	84	129	168	206	249	292
-40°	0	2	8	21	43	80	121	161	197	238	279
-42.5°	0	2	7	19	40	73	112	153	186	225	264
-45°	0	2	7	17	37	68	104	143	177	211	250
-47.5°	0	2	6	15	34	62	94	133	167	198	233
-50°	0	2	6	13	31	55	87	122	155	184	217
-52.5°	0	2	5	13	27	48	78	110	142	171	201
-55°	0	2	5	12	24	43	69	100	128	156	183
-57.5°	0	2	4	10	20	37	60	87	114	140	166
-60°	0	1	3	9	16	32	52	76	99	124	148
-62.5°	0	1	2	8	14	27	44	64	85	107	129
-65°	0	1	2	6	13	20	37	52	69	90	111
-67.5°	0	1	2	5	10	16	28	42	55	72	90
-70°	0	1	2	4	8	13	20	32	43	53	69
-72.5°	0	1	2	3	6	11	16	22	31	41	49
-75°	0	1	2	2	4	8	13	16	20	27	34
-77.5°	0	1	2	2	3	5	9	12	14	16	20
-80°	0	1	1	2	2	3	5	7	9	11	13
-82.5°	0	0	1	2	2	2	3	4	5	6	8
-85°	0	0	1	1	2	2	2	2	3	3	4
-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



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-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	2	1	2	2	2	2	2	2
62.5°	3	5	5	6	5	4	6	6	5	5	6
60°	8	8	11	13	11	12	13	16	14	12	16
57.5°	14	16	22	25	26	22	28	30	32	31	34
55°	24	28	37	44	44	44	48	56	59	59	59
52.5°	41	45	58	66	69	73	80	89	94	94	98
50°	59	71	82	91	99	107	117	130	137	141	150
47.5°	83	97	108	120	133	148	164	175	184	200	221
45°	108	125	136	153	172	196	211	222	238	260	282
42.5°	137	152	168	186	218	242	258	272	294	328	347
40°	161	180	200	231	264	286	306	327	365	394	413
37.5°	186	209	234	273	306	332	359	390	428	461	478
35°	211	237	271	310	347	380	409	445	482	515	539
32.5°	237	266	306	345	384	424	457	494	532	566	590
30°	260	296	338	379	423	462	499	539	582	612	635
27.5°	280	324	369	412	458	500	540	585	626	655	678
25°	299	348	398	445	493	536	580	628	666	695	717
22.5°	318	369	420	476	525	571	618	663	699	732	754
20°	337	388	441	499	556	606	652	695	727	756	784
17.5°	353	405	459	518	577	633	682	726	752	777	805
15°	369	420	476	537	597	653	703	745	770	794	823
12.5°	383	434	492	554	615	671	720	756	784	810	844
10°	395	446	505	568	631	688	733	767	794	822	861
7.5°	405	456	517	581	645	702	745	777	803	832	874
5°	412	465	526	593	656	713	753	784	811	840	884
2.5°	419	472	535	605	667	722	762	794	819	848	892
0°	423	478	540	612	674	727	767	801	825	852	895
-2.5°	426	482	544	614	676	729	771	802	826	853	895
-5°	426	483	546	613	675	727	771	802	825	850	890
-7.5°	425	483	546	610	672	724	768	799	822	847	885
-10°	423	481	543	606	667	720	762	795	819	841	876
-12.5°	421	477	537	600	661	713	756	790	814	835	865
-15°	418	472	530	591	652	706	748	783	809	829	853
-17.5°	413	465	521	581	642	698	741	777	804	823	845
-20°	408	457	511	569	629	686	731	767	795	816	836



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-VS_75

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	402	448	500	556	615	671	720	758	787	809	826
-25°	395	441	489	543	600	656	706	747	777	800	819
-27.5°	385	431	478	529	584	639	688	731	763	788	808
-30°	374	421	465	514	567	619	669	712	748	774	796
-32.5°	363	410	452	498	548	600	647	689	727	757	781
-35°	350	395	438	482	530	577	622	665	704	736	762
-37.5°	336	380	423	465	508	551	598	638	677	713	739
-40°	322	365	405	446	485	525	568	609	647	681	715
-42.5°	308	348	388	426	462	499	538	577	614	648	680
-45°	289	330	370	404	437	471	507	544	578	610	642
-47.5°	271	310	349	380	411	443	476	508	541	571	603
-50°	251	288	324	355	384	414	444	472	501	531	559
-52.5°	232	265	298	327	356	383	411	436	461	487	513
-55°	211	243	271	299	326	351	375	399	422	444	466
-57.5°	192	218	245	271	296	318	340	361	382	402	422
-60°	172	195	218	242	264	285	304	323	342	360	378
-62.5°	151	172	193	213	234	253	269	285	303	317	334
-65°	130	149	168	186	205	219	234	248	262	276	290
-67.5°	109	125	142	160	175	187	200	212	224	235	246
-70°	85	99	113	129	143	155	165	175	186	196	205
-72.5°	61	74	85	97	108	119	129	138	146	155	163
-75°	42	50	59	68	76	84	92	100	107	114	121
-77.5°	27	32	37	42	47	53	59	65	69	73	76
-80°	14	16	20	25	28	30	33	34	36	39	43
-82.5°	9	11	12	13	13	14	15	16	18	20	21
-85°	5	6	6	8	9	9	9	9	10	10	11
-87.5°	2	2	3	4	4	4	5	5	6	6	6
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-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°	5	4	4	5	5	4	5	6	5	5	4
60°	16	13	13	15	15	13	15	15	15	14	15
57.5°	35	33	31	36	37	33	34	41	43	42	41
55°	63	67	68	72	76	81	86	89	90	92	96
52.5°	107	114	115	119	133	137	135	143	147	147	149
50°	167	175	183	193	203	207	208	214	220	221	221
47.5°	232	245	257	271	280	288	299	307	309	311	317
45°	295	309	326	340	352	362	370	379	385	391	396
42.5°	356	376	398	409	410	426	439	444	453	457	458
40°	430	452	471	480	490	505	513	514	519	529	532
37.5°	501	526	545	557	568	581	588	597	610	617	624
35°	563	586	610	619	632	646	660	676	692	708	721
32.5°	612	635	654	669	685	706	727	755	778	805	834
30°	653	677	699	716	742	775	811	854	899	939	987
27.5°	696	720	746	775	815	861	927	989	1065	1122	1219
25°	739	766	801	847	903	983	1076	1172	1311	1435	1647
22.5°	778	812	861	923	1012	1127	1264	1452	1732	2071	2515
20°	815	858	922	1014	1132	1285	1523	1926	2438	3327	4221
17.5°	847	907	985	1096	1248	1495	1944	2655	3795	5615	7543
15°	872	943	1046	1188	1407	1798	2483	3804	6176	9099	12515
12.5°	899	980	1097	1264	1556	2174	3423	5658	9110	13718	18338
10°	922	1015	1153	1375	1802	2694	4439	7687	12645	18642	24433
7.5°	940	1042	1198	1468	2044	3318	5834	10131	16099	23013	30096
5°	952	1061	1233	1551	2242	3788	6865	12014	18787	26634	34680
2.5°	963	1078	1264	1612	2375	4082	7523	13148	20335	28806	37093
0°	966	1083	1272	1622	2428	4278	7852	13655	20884	29623	37857
-2.5°	966	1079	1274	1629	2375	4200	7738	13485	20516	29330	37403
-5°	957	1065	1245	1574	2281	3921	7283	12650	19359	27464	35115
-7.5°	948	1049	1210	1494	2108	3482	6285	10886	17036	24000	31255
-10°	933	1024	1166	1402	1869	2870	4857	8539	13843	19931	25919
-12.5°	915	993	1113	1286	1610	2318	3772	6382	10318	15290	20161
-15°	894	962	1064	1214	1459	1910	2705	4341	7204	10682	14476
-17.5°	879	932	1014	1127	1289	1582	2115	3006	4500	6886	9300
-20°	861	901	968	1059	1183	1357	1639	2138	2770	4028	5202



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-VS_75

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	847	879	925	992	1086	1213	1372	1607	1947	2394	3027
-25°	836	856	891	943	1006	1094	1203	1327	1506	1682	1978
-27.5°	825	843	865	899	947	998	1073	1151	1251	1335	1471
-30°	815	830	847	868	897	933	976	1030	1085	1141	1208
-32.5°	801	819	833	847	861	885	910	944	978	1014	1051
-35°	785	803	819	829	839	851	865	884	902	926	948
-37.5°	764	784	800	811	819	827	837	846	854	870	883
-40°	738	761	777	789	798	808	814	820	827	836	843
-42.5°	709	731	748	762	774	784	791	798	805	811	815
-45°	673	694	714	730	745	755	764	774	780	786	791
-47.5°	628	653	671	689	706	718	729	739	747	754	762
-50°	582	605	625	643	659	674	686	696	705	713	721
-52.5°	538	557	576	594	609	622	635	645	653	660	669
-55°	488	508	524	540	555	568	579	587	595	601	610
-57.5°	441	459	476	489	501	513	522	529	535	540	548
-60°	395	412	426	438	449	458	466	472	476	480	486
-62.5°	350	364	377	388	398	407	413	418	421	424	428
-65°	304	317	329	340	349	357	363	366	369	371	374
-67.5°	258	270	280	290	299	306	311	314	317	320	322
-70°	214	222	231	239	246	253	257	260	263	265	267
-72.5°	171	177	184	190	197	201	204	207	209	211	213
-75°	127	133	137	141	146	149	152	154	156	158	159
-77.5°	80	84	89	92	94	97	99	100	100	101	101
-80°	45	48	49	51	52	53	55	55	55	56	57
-82.5°	23	23	24	24	24	24	25	25	24	25	25
-85°	11	12	12	12	12	12	13	13	13	13	13
-87.5°	7	7	8	8	9	9	9	9	9	9	9
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-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°	4	3	3	3	3	3	4	4	5	5	6
60°	15	15	15	14	15	15	15	15	14	15	15
57.5°	39	35	34	34	34	35	39	41	42	43	41
55°	99	101	103	102	103	101	99	96	92	90	89
52.5°	151	152	154	156	154	152	151	149	147	147	143
50°	221	215	214	217	214	215	221	221	221	220	214
47.5°	326	332	339	338	339	332	326	317	311	309	307
45°	403	407	412	415	412	407	403	396	391	385	379
42.5°	465	468	472	474	472	468	465	458	457	453	444
40°	540	543	547	547	547	543	540	532	529	519	514
37.5°	633	641	647	650	647	641	633	624	617	610	597
35°	735	748	760	761	760	748	735	721	708	692	676
32.5°	856	877	893	895	893	877	856	834	805	778	755
30°	1021	1051	1073	1090	1073	1051	1021	987	939	899	854
27.5°	1292	1357	1400	1424	1400	1357	1292	1219	1122	1065	989
25°	1843	1986	2071	2163	2071	1986	1843	1647	1435	1311	1172
22.5°	3041	3421	3651	3938	3651	3421	3041	2515	2071	1732	1452
20°	5537	6467	6922	7376	6922	6467	5537	4221	3327	2438	1926
17.5°	9868	11377	12565	12451	12565	11377	9868	7543	5615	3795	2655
15°	15771	18093	19558	20063	19558	18093	15771	12515	9099	6176	3804
12.5°	22565	26098	28502	28994	28502	26098	22565	18338	13718	9110	5658
10°	30150	34128	36780	37608	36780	34128	30150	24433	18642	12645	7687
7.5°	36555	40812	43148	44116	43148	40812	36555	30096	23013	16099	10131
5°	40802	45288	47561	48697	47561	45288	40802	34680	26634	18787	12014
2.5°	43265	47530	50699	51871	50699	47530	43265	37093	28806	20335	13148
0°	43760	48033	51356	52819	51356	48033	43760	37857	29623	20884	13655
-2.5°	43229	47003	49692	50454	49692	47003	43229	37403	29330	20516	13485
-5°	41130	44789	46767	47233	46767	44789	41130	35115	27464	19359	12650
-7.5°	37158	41051	43125	43560	43125	41051	37158	31255	24000	17036	10886
-10°	31434	35425	37573	38079	37573	35425	31434	25919	19931	13843	8539
-12.5°	24548	28071	30085	30263	30085	28071	24548	20161	15290	10318	6382
-15°	17918	20494	21946	21851	21946	20494	17918	14476	10682	7204	4341
-17.5°	11759	13567	14561	14882	14561	13567	11759	9300	6886	4500	3006
-20°	6873	8057	8818	8897	8818	8057	6873	5202	4028	2770	2138



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-VS_75

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	3824	4441	4838	4833	4838	4441	3824	3027	2394	1947	1607
-25°	2280	2513	2655	2679	2655	2513	2280	1978	1682	1506	1327
-27.5°	1581	1671	1734	1732	1734	1671	1581	1471	1335	1251	1151
-30°	1263	1307	1346	1334	1346	1307	1263	1208	1141	1085	1030
-32.5°	1082	1105	1123	1122	1123	1105	1082	1051	1014	978	944
-35°	966	981	992	990	992	981	966	948	926	902	884
-37.5°	893	902	909	911	909	902	893	883	870	854	846
-40°	851	858	863	865	863	858	851	843	836	827	820
-42.5°	823	829	834	837	834	829	823	815	811	805	798
-45°	799	805	810	813	810	805	799	791	786	780	774
-47.5°	769	777	783	784	783	777	769	762	754	747	739
-50°	730	737	742	742	742	737	730	721	713	705	696
-52.5°	677	683	688	690	688	683	677	669	660	653	645
-55°	618	624	629	630	629	624	618	610	601	595	587
-57.5°	554	558	563	564	563	558	554	548	540	535	529
-60°	490	494	497	496	497	494	490	486	480	476	472
-62.5°	430	432	436	437	436	432	430	428	424	421	418
-65°	377	378	378	377	378	378	377	374	371	369	366
-67.5°	323	325	324	324	324	325	323	322	320	317	314
-70°	268	270	268	267	268	270	268	267	265	263	260
-72.5°	214	215	214	213	214	215	214	213	211	209	207
-75°	160	161	160	158	160	161	160	159	158	156	154
-77.5°	101	101	101	99	101	101	101	101	101	100	100
-80°	59	58	57	56	57	58	59	57	56	55	55
-82.5°	26	26	26	25	26	26	26	25	25	24	25
-85°	13	13	13	13	13	13	13	13	13	13	13
-87.5°	10	10	10	10	10	10	10	9	9	9	9
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-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°	5	4	5	5	4	4	5	6	5	5	6
60°	15	13	15	15	13	13	16	16	12	14	16
57.5°	34	33	37	36	31	33	35	34	31	32	30
55°	86	81	76	72	68	67	63	59	59	59	56
52.5°	135	137	133	119	115	114	107	98	94	94	89
50°	208	207	203	193	183	175	167	150	141	137	130
47.5°	299	288	280	271	257	245	232	221	200	184	175
45°	370	362	352	340	326	309	295	282	260	238	222
42.5°	439	426	410	409	398	376	356	347	328	294	272
40°	513	505	490	480	471	452	430	413	394	365	327
37.5°	588	581	568	557	545	526	501	478	461	428	390
35°	660	646	632	619	610	586	563	539	515	482	445
32.5°	727	706	685	669	654	635	612	590	566	532	494
30°	811	775	742	716	699	677	653	635	612	582	539
27.5°	927	861	815	775	746	720	696	678	655	626	585
25°	1076	983	903	847	801	766	739	717	695	666	628
22.5°	1264	1127	1012	923	861	812	778	754	732	699	663
20°	1523	1285	1132	1014	922	858	815	784	756	727	695
17.5°	1944	1495	1248	1096	985	907	847	805	777	752	726
15°	2483	1798	1407	1188	1046	943	872	823	794	770	745
12.5°	3423	2174	1556	1264	1097	980	899	844	810	784	756
10°	4439	2694	1802	1375	1153	1015	922	861	822	794	767
7.5°	5834	3318	2044	1468	1198	1042	940	874	832	803	777
5°	6865	3788	2242	1551	1233	1061	952	884	840	811	784
2.5°	7523	4082	2375	1612	1264	1078	963	892	848	819	794
0°	7852	4278	2428	1622	1272	1083	966	895	852	825	801
-2.5°	7738	4200	2375	1629	1274	1079	966	895	853	826	802
-5°	7283	3921	2281	1574	1245	1065	957	890	850	825	802
-7.5°	6285	3482	2108	1494	1210	1049	948	885	847	822	799
-10°	4857	2870	1869	1402	1166	1024	933	876	841	819	795
-12.5°	3772	2318	1610	1286	1113	993	915	865	835	814	790
-15°	2705	1910	1459	1214	1064	962	894	853	829	809	783
-17.5°	2115	1582	1289	1127	1014	932	879	845	823	804	777
-20°	1639	1357	1183	1059	968	901	861	836	816	795	767



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-VS_75

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1372	1213	1086	992	925	879	847	826	809	787	758
-25°	1203	1094	1006	943	891	856	836	819	800	777	747
-27.5°	1073	998	947	899	865	843	825	808	788	763	731
-30°	976	933	897	868	847	830	815	796	774	748	712
-32.5°	910	885	861	847	833	819	801	781	757	727	689
-35°	865	851	839	829	819	803	785	762	736	704	665
-37.5°	837	827	819	811	800	784	764	739	713	677	638
-40°	814	808	798	789	777	761	738	715	681	647	609
-42.5°	791	784	774	762	748	731	709	680	648	614	577
-45°	764	755	745	730	714	694	673	642	610	578	544
-47.5°	729	718	706	689	671	653	628	603	571	541	508
-50°	686	674	659	643	625	605	582	559	531	501	472
-52.5°	635	622	609	594	576	557	538	513	487	461	436
-55°	579	568	555	540	524	508	488	466	444	422	399
-57.5°	522	513	501	489	476	459	441	422	402	382	361
-60°	466	458	449	438	426	412	395	378	360	342	323
-62.5°	413	407	398	388	377	364	350	334	317	303	285
-65°	363	357	349	340	329	317	304	290	276	262	248
-67.5°	311	306	299	290	280	270	258	246	235	224	212
-70°	257	253	246	239	231	222	214	205	196	186	175
-72.5°	204	201	197	190	184	177	171	163	155	146	138
-75°	152	149	146	141	137	133	127	121	114	107	100
-77.5°	99	97	94	92	89	84	80	76	73	69	65
-80°	55	53	52	51	49	48	45	43	39	36	34
-82.5°	25	24	24	24	24	23	23	21	20	18	16
-85°	13	12	12	12	12	12	11	11	10	10	9
-87.5°	9	9	9	8	8	7	7	6	6	6	5
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-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	2	3	2	2	3	3	3	2
62.5°	6	4	5	6	5	5	3	6	6	5	3
60°	13	12	11	13	11	8	8	9	9	6	6
57.5°	28	22	26	25	22	16	14	16	13	10	7
55°	48	44	44	44	37	28	24	23	19	15	10
52.5°	80	73	69	66	58	45	41	34	29	20	16
50°	117	107	99	91	82	71	59	50	39	27	23
47.5°	164	148	133	120	108	97	83	68	51	37	30
45°	211	196	172	153	136	125	108	87	68	51	38
42.5°	258	242	218	186	168	152	137	111	86	63	48
40°	306	286	264	231	200	180	161	135	104	78	60
37.5°	359	332	306	273	234	209	186	160	124	94	71
35°	409	380	347	310	271	237	211	184	145	112	83
32.5°	457	424	384	345	306	266	237	204	165	127	94
30°	499	462	423	379	338	296	260	224	185	143	106
27.5°	540	500	458	412	369	324	280	242	203	159	119
25°	580	536	493	445	398	348	299	260	219	175	132
22.5°	618	571	525	476	420	369	318	276	235	189	144
20°	652	606	556	499	441	388	337	292	249	203	156
17.5°	682	633	577	518	459	405	353	306	262	216	168
15°	703	653	597	537	476	420	369	320	275	228	178
12.5°	720	671	615	554	492	434	383	333	287	237	185
10°	733	688	631	568	505	446	395	344	295	243	192
7.5°	745	702	645	581	517	456	405	352	301	250	198
5°	753	713	656	593	526	465	412	358	308	256	204
2.5°	762	722	667	605	535	472	419	364	311	259	207
0°	767	727	674	612	540	478	423	368	314	261	211
-2.5°	771	729	676	614	544	482	426	371	317	264	212
-5°	771	727	675	613	546	483	426	372	320	265	214
-7.5°	768	724	672	610	546	483	425	373	318	264	213
-10°	762	720	667	606	543	481	423	372	318	264	213
-12.5°	756	713	661	600	537	477	421	370	316	262	211
-15°	748	706	652	591	530	472	418	366	313	260	210
-17.5°	741	698	642	581	521	465	413	363	310	257	208
-20°	731	686	629	569	511	457	408	357	304	253	205



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-VS_75

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	720	671	615	556	500	448	402	351	299	248	202
-25°	706	656	600	543	489	441	395	344	292	243	198
-27.5°	688	639	584	529	478	431	385	335	285	236	193
-30°	669	619	567	514	465	421	374	326	277	230	187
-32.5°	647	600	548	498	452	410	363	315	268	223	181
-35°	622	577	530	482	438	395	350	304	259	215	175
-37.5°	598	551	508	465	423	380	336	292	249	206	168
-40°	568	525	485	446	405	365	322	279	238	197	161
-42.5°	538	499	462	426	388	348	308	264	225	186	153
-45°	507	471	437	404	370	330	289	250	211	177	143
-47.5°	476	443	411	380	349	310	271	233	198	167	133
-50°	444	414	384	355	324	288	251	217	184	155	122
-52.5°	411	383	356	327	298	265	232	201	171	142	110
-55°	375	351	326	299	271	243	211	183	156	128	100
-57.5°	340	318	296	271	245	218	192	166	140	114	87
-60°	304	285	264	242	218	195	172	148	124	99	76
-62.5°	269	253	234	213	193	172	151	129	107	85	64
-65°	234	219	205	186	168	149	130	111	90	69	52
-67.5°	200	187	175	160	142	125	109	90	72	55	42
-70°	165	155	143	129	113	99	85	69	53	43	32
-72.5°	129	119	108	97	85	74	61	49	41	31	22
-75°	92	84	76	68	59	50	42	34	27	20	16
-77.5°	59	53	47	42	37	32	27	20	16	14	12
-80°	33	30	28	25	20	16	14	13	11	9	7
-82.5°	15	14	13	13	12	11	9	8	6	5	4
-85°	9	9	9	8	6	6	5	4	3	3	2
-87.5°	5	4	4	4	3	2	2	2	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-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	1	1	1	0	0
70°	1	2	2	1	1	1	0
67.5°	2	2	2	1	1	1	0
65°	3	2	2	2	1	1	0
62.5°	4	4	2	2	1	1	0
60°	6	6	3	2	1	1	0
57.5°	8	7	4	2	2	1	0
55°	11	9	6	3	2	1	0
52.5°	14	10	7	3	2	1	0
50°	18	13	9	3	2	1	0
47.5°	22	17	10	4	2	1	0
45°	29	20	13	6	3	1	0
42.5°	37	24	14	6	3	1	0
40°	44	28	16	8	4	1	0
37.5°	52	32	20	9	4	1	0
35°	60	38	23	11	5	1	0
32.5°	69	44	26	13	5	1	0
30°	78	51	29	14	6	2	0
27.5°	87	57	32	16	6	2	0
25°	97	64	35	17	6	2	0
22.5°	105	70	39	18	6	2	0
20°	114	76	42	20	7	2	0
17.5°	122	83	45	21	7	2	0
15°	129	89	48	22	8	2	0
12.5°	136	94	52	23	8	2	0
10°	143	100	55	24	9	2	0
7.5°	148	105	59	26	9	2	0
5°	155	110	61	27	9	2	0
2.5°	160	114	62	27	9	2	0
0°	164	117	65	28	9	2	0
-2.5°	166	119	66	29	9	2	0
-5°	168	122	68	30	10	2	0
-7.5°	168	122	69	30	10	2	0
-10°	168	122	68	30	10	2	0
-12.5°	168	122	68	30	10	2	0
-15°	167	121	68	30	10	2	0
-17.5°	165	119	67	30	10	2	0
-20°	164	118	66	30	10	2	0



REPORT NUMBER: P731740
 CATALOG NUMBER: NHRS50U33BZ730-VS_75

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	161	115	65	29	10	2	0
-25°	157	112	63	28	9	2	0
-27.5°	153	107	61	27	9	2	0
-30°	149	101	58	27	9	2	0
-32.5°	143	96	55	26	9	2	0
-35°	137	90	52	24	9	2	0
-37.5°	129	84	48	23	9	2	0
-40°	121	80	43	21	8	2	0
-42.5°	112	73	40	19	7	2	0
-45°	104	68	37	17	7	2	0
-47.5°	94	62	34	15	6	2	0
-50°	87	55	31	13	6	2	0
-52.5°	78	48	27	13	5	2	0
-55°	69	43	24	12	5	2	0
-57.5°	60	37	20	10	4	2	0
-60°	52	32	16	9	3	1	0
-62.5°	44	27	14	8	2	1	0
-65°	37	20	13	6	2	1	0
-67.5°	28	16	10	5	2	1	0
-70°	20	13	8	4	2	1	0
-72.5°	16	11	6	3	2	1	0
-75°	13	8	4	2	2	1	0
-77.5°	9	5	3	2	2	1	0
-80°	5	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)