

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: P731755

Luminaire Tested: **NHRS50U33BZ750-VS_50**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731755
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50U33BZ750-VS_50
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 3 AT 5000K WITH VISOR @ 50% output
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	9908.2 lumens	Max Intensity:	38729.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.46' x H: 0')		

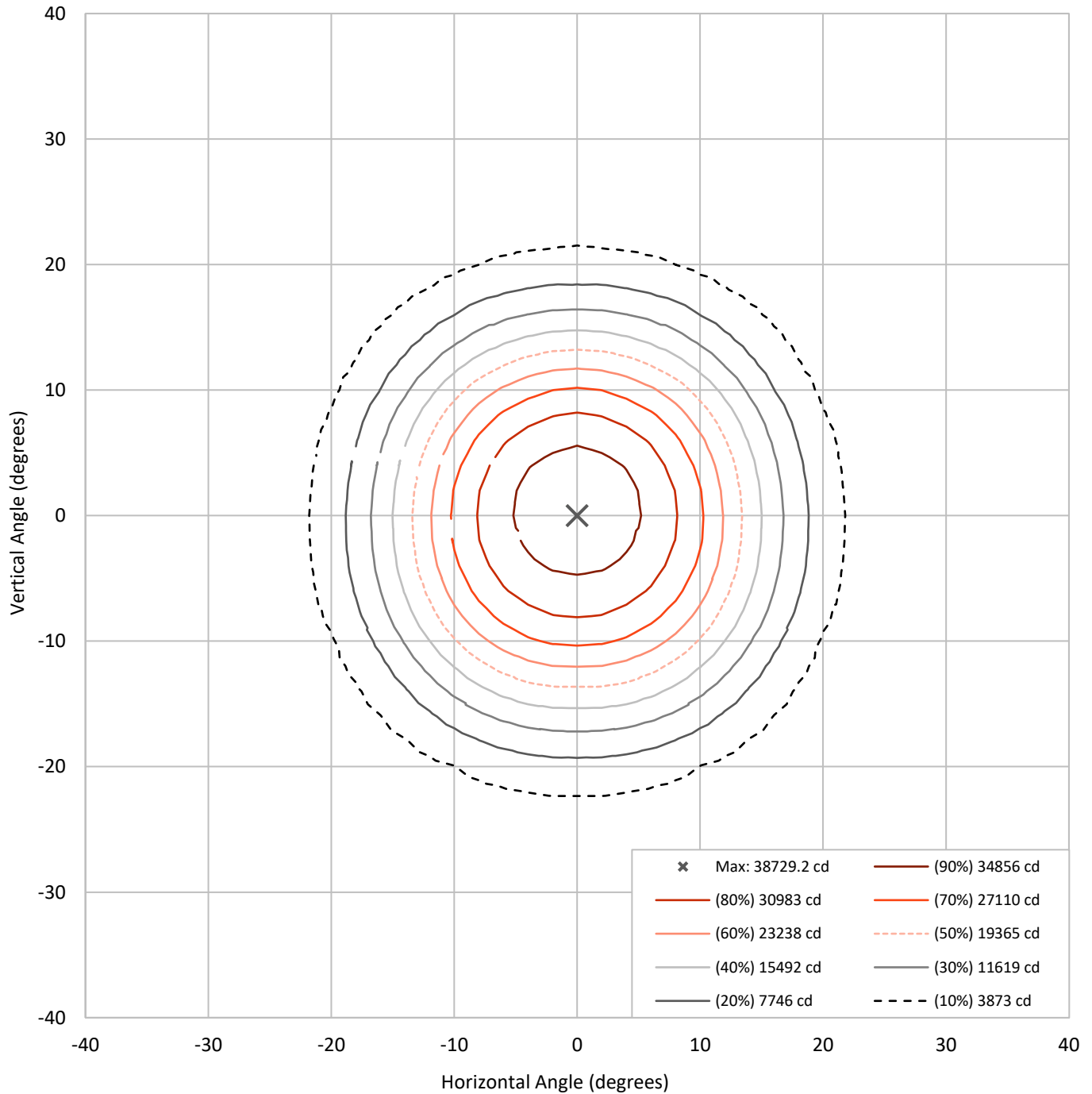
Beam Angle (50%):	26.8°H x 26.9°V	Field Angle (10%):	43.6°H x 43.7°V
Beam Lumens:	4818.8 lumens	Field Lumens:	7801.7 lumens
Beam Efficiency:	48.6%	Field Efficiency:	78.7%

Input Watts (W): 77.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Candela Plot





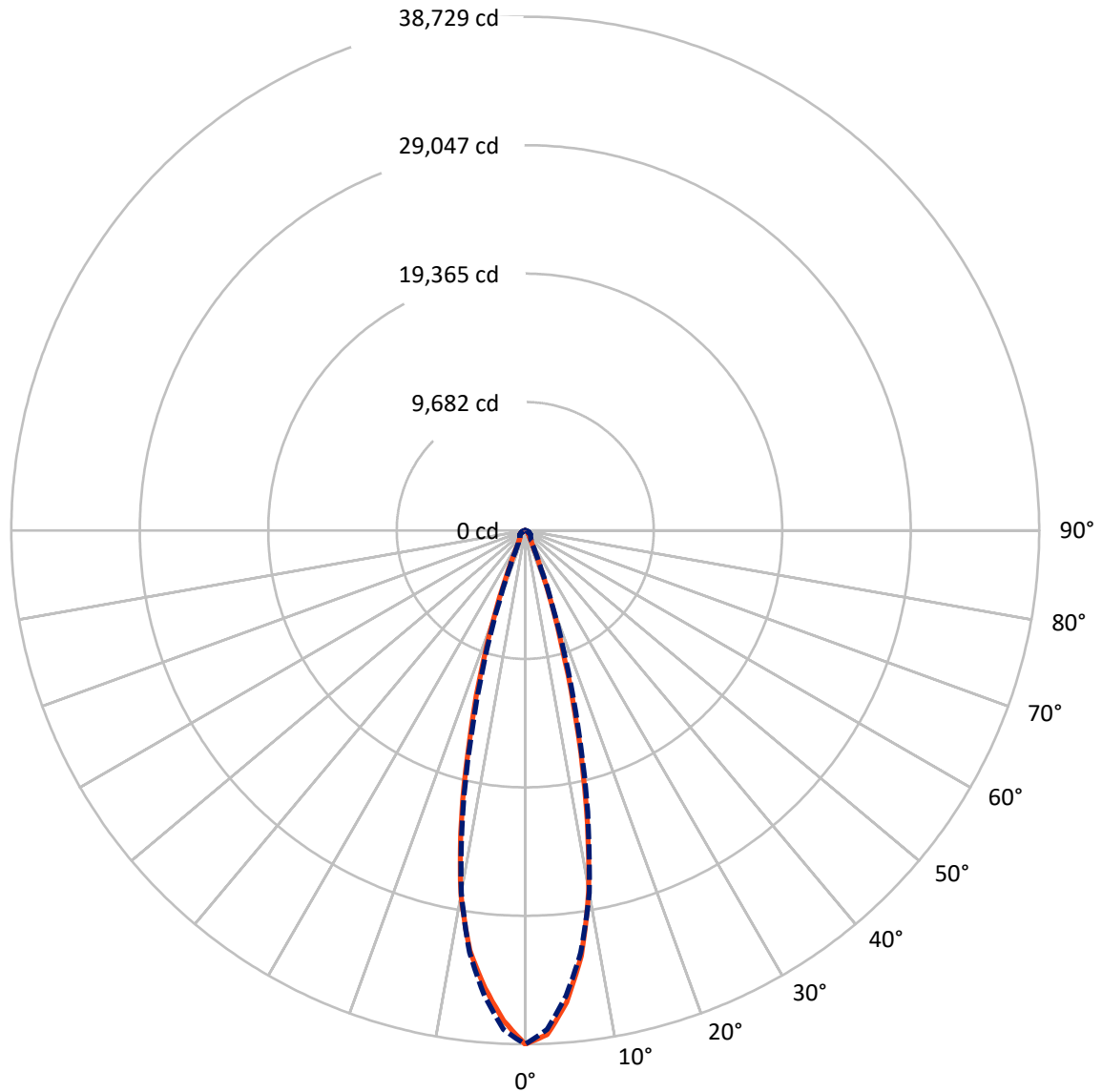
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Lumen Table

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	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1			
60		0.2	0.6	0.9	1.3	1.8	2.1	2.3	2.3	2.1	1.8	1.3	0.9	0.6	0.2				
50	0.6	0.9	2.0	3.6	5.4	7.0	8.2	8.8	8.8	8.2	7.0	5.4	3.6	2.0	0.9	0.6			
40		1.7	4.0	7.0	10.2	12.7	15.0	17.0	17.0	15.0	12.7	10.2	7.0	4.0	1.7				
30	1.5	2.5	5.7	9.8	13.6	18.9	32.1	56.9	56.9	32.1	18.9	13.6	9.8	5.7	2.5	1.5			
20		3.1	6.9	11.6	16.3	32.3	155.4	406.8	406.8	155.4	32.3	16.3	11.6	6.9	3.1				
10	2.1	3.4	7.6	12.3	18.0	57.8	406.5	943.8	943.8	406.5	57.8	18.0	12.3	7.6	3.4	2.1			
0		3.6	7.8	12.6	18.1	59.5	419.1	943.3	943.3	419.1	59.5	18.1	12.6	7.8	3.6				
-10	2.1	3.5	7.6	12.3	16.8	34.0	175.9	447.5	447.5	175.9	34.0	16.8	12.3	7.6	3.5	2.1			
-20		3.3	7.0	11.7	15.4	21.0	37.3	71.4	71.4	37.3	21.0	15.4	11.7	7.0	3.3				
-30	1.5	2.9	6.2	10.4	14.2	17.1	19.9	22.5	22.5	19.9	17.1	14.2	10.4	6.2	2.9	1.5			
-40		2.4	5.2	8.6	12.2	14.9	16.7	17.8	17.8	16.7	14.9	12.2	8.6	5.2	2.4				
-50	0.7	1.8	3.8	6.3	8.9	11.2	12.8	13.8	13.8	12.8	11.2	8.9	6.3	3.8	1.8	0.7			
-60		1.1	2.4	3.9	5.6	7.0	7.9	8.4	8.4	7.9	7.0	5.6	3.9	2.4	1.1				
-70	0.1	1.1	2.4	3.9	5.6	7.0	7.9	8.4	8.4	7.9	7.0	5.6	3.9	2.4	1.1	0.1			
-80		1.4	4.4	7.1	7.9	7.1	4.4	1.4	0.1										
-90	0.1	1.4	4.4	7.1	7.9	7.1	4.4	1.4	0.1										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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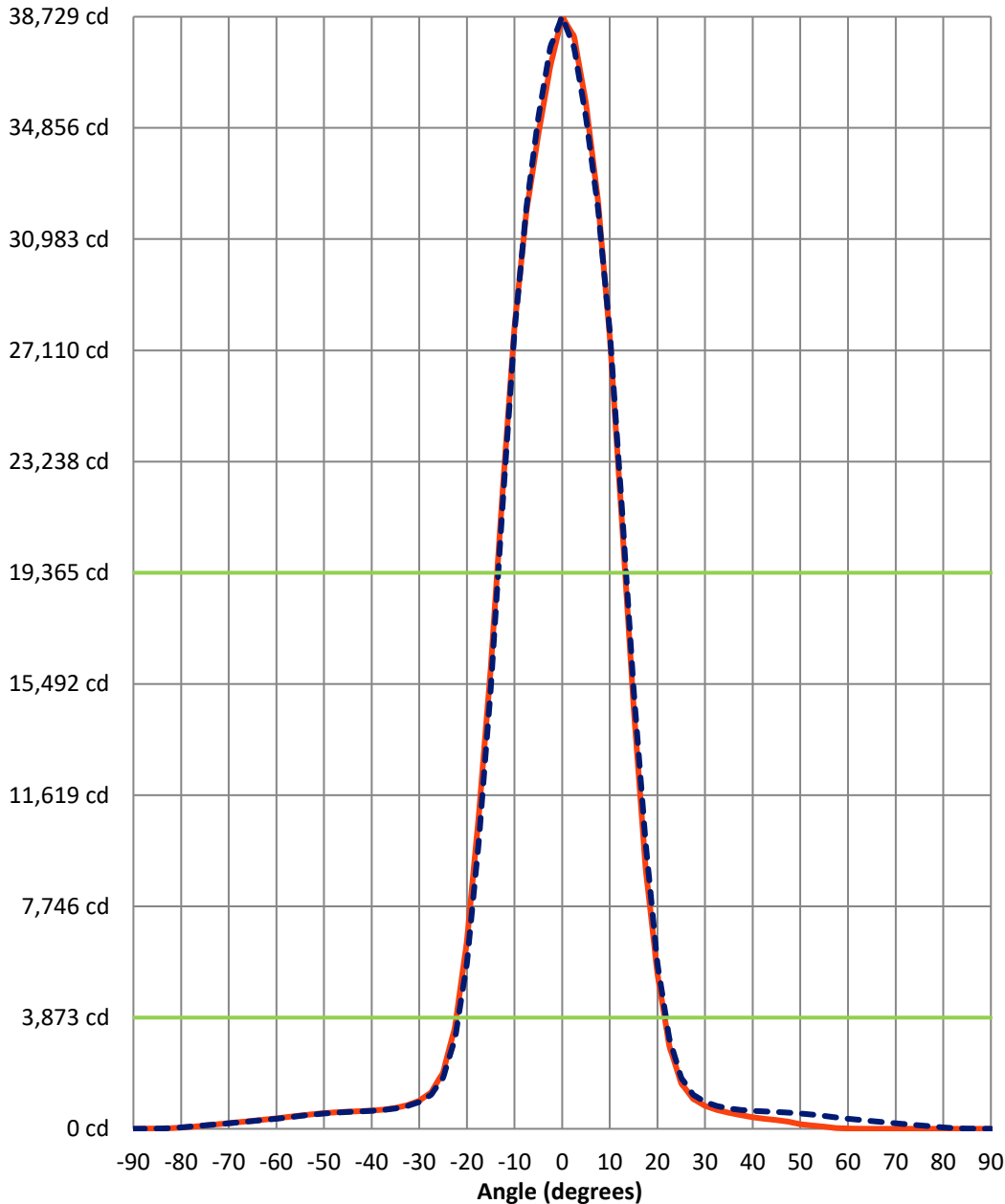
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 26.8°
V Angle: 26.9°
Lumens: 4818.8
Efficiency: 48.6%

Field:
H Angle: 43.6°
V Angle: 43.7°
Lumens: 7801.7
Efficiency: 78.7%

Spill:
Lumens: 2106.5
Efficiency: 21.3%

— Vertical Distribution through 0-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	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	1	1	1	1	1	1
70°	0	1	1	1	1	1	1	1	1	1	1
67.5°	0	1	1	1	2	2	2	1	1	2	1
65°	0	1	1	1	2	2	2	2	2	3	2
62.5°	0	1	1	2	2	3	3	2	3	4	4
60°	0	1	1	2	2	4	4	4	5	7	7
57.5°	0	1	1	2	3	5	6	5	7	10	11
55°	0	1	1	2	4	6	8	7	11	14	18
52.5°	0	1	2	3	5	7	11	12	15	21	25
50°	0	1	2	3	6	10	13	17	20	29	37
47.5°	0	1	2	3	8	13	16	22	28	37	50
45°	0	1	2	4	9	15	22	28	37	50	64
42.5°	0	1	2	5	10	18	27	36	47	63	81
40°	0	1	3	6	12	21	32	44	57	76	99
37.5°	0	1	3	7	14	24	38	53	70	91	118
35°	0	1	3	9	16	28	44	61	82	107	135
32.5°	0	1	3	9	19	33	50	69	93	122	150
30°	0	1	4	10	21	38	57	78	105	136	164
27.5°	0	1	4	11	24	42	64	88	117	149	177
25°	0	1	4	12	26	47	71	97	128	161	191
22.5°	0	1	4	13	29	52	77	106	139	172	203
20°	0	1	5	14	31	56	83	115	149	183	214
17.5°	0	1	5	15	33	61	89	123	158	192	225
15°	0	1	5	16	36	65	95	130	167	202	235
12.5°	0	1	5	17	38	69	100	136	174	210	244
10°	0	1	6	18	40	73	105	141	178	216	252
7.5°	0	1	6	19	43	76	109	145	183	221	257
5°	0	1	6	19	45	81	114	150	187	226	262
2.5°	0	1	6	20	46	83	117	152	189	228	267
0°	0	1	6	20	47	85	120	154	192	230	270
-2.5°	0	1	6	21	48	87	122	156	193	232	272
-5°	0	1	7	21	49	89	123	157	195	235	273
-7.5°	0	1	7	22	50	89	123	157	194	234	273
-10°	0	1	7	22	50	89	123	156	193	234	273
-12.5°	0	1	7	22	50	89	123	156	192	232	271
-15°	0	1	7	22	49	88	122	154	191	230	269
-17.5°	0	1	7	22	49	88	122	153	188	227	266
-20°	0	1	7	21	48	86	120	151	186	223	262



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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	1	7	21	47	84	118	148	182	219	257
-25°	0	1	7	21	46	81	115	145	178	214	252
-27.5°	0	1	6	20	45	78	112	142	174	209	246
-30°	0	1	6	19	42	74	109	137	169	203	239
-32.5°	0	1	6	19	40	71	105	133	163	197	231
-35°	0	1	6	18	38	66	100	128	158	190	223
-37.5°	0	1	6	16	35	62	94	123	151	182	214
-40°	0	1	5	15	32	58	89	118	144	174	204
-42.5°	0	1	5	14	29	54	83	111	137	165	194
-45°	0	1	5	12	27	50	76	105	130	155	183
-47.5°	0	1	4	11	25	45	70	97	122	145	171
-50°	0	1	4	10	23	40	63	89	114	135	159
-52.5°	0	1	4	9	20	36	57	81	104	125	147
-55°	0	1	3	8	18	31	51	73	94	114	134
-57.5°	0	1	3	7	14	28	45	64	83	103	122
-60°	0	1	2	6	12	24	38	56	73	91	108
-62.5°	0	1	2	5	10	20	32	47	62	79	95
-65°	0	1	2	5	9	15	27	38	52	66	81
-67.5°	0	1	2	4	7	12	21	31	40	53	66
-70°	0	1	2	3	6	10	15	23	31	39	51
-72.5°	0	1	1	2	4	8	12	16	23	30	36
-75°	0	1	1	2	3	6	9	12	14	20	26
-77.5°	0	1	1	2	2	4	6	9	11	12	15
-80°	0	1	1	1	2	3	4	5	7	9	10
-82.5°	0	0	1	1	2	2	3	3	4	5	6
-85°	0	0	1	1	1	1	2	2	2	3	3
-87.5°	0	0	0	1	1	1	1	1	1	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	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	1	1	1	1	1	0	1	1	1	1
65°	1	2	2	2	1	1	2	2	1	1	1
62.5°	2	3	4	4	3	3	4	5	3	4	4
60°	6	5	8	10	9	9	10	11	10	9	12
57.5°	10	11	16	19	19	16	21	22	23	23	25
55°	18	21	27	32	33	32	36	41	42	43	44
52.5°	30	33	42	48	51	53	58	65	69	69	72
50°	44	52	59	67	73	78	85	96	101	104	110
47.5°	61	71	79	89	97	109	120	128	135	146	162
45°	80	91	101	112	126	143	154	162	175	191	207
42.5°	101	112	124	136	160	177	189	200	216	240	255
40°	118	132	147	169	194	210	225	240	268	289	303
37.5°	136	153	171	200	224	244	263	286	314	338	350
35°	155	174	198	228	255	279	300	327	353	378	395
32.5°	174	195	224	253	282	311	335	362	390	415	433
30°	191	217	248	278	310	339	366	395	427	448	465
27.5°	205	238	271	302	336	367	396	429	458	480	496
25°	219	255	292	326	361	394	425	461	488	509	526
22.5°	234	270	308	349	385	420	453	486	513	537	553
20°	247	284	323	366	408	444	478	509	533	554	575
17.5°	260	297	337	380	423	464	500	532	551	570	591
15°	271	308	349	394	438	479	515	546	565	583	604
12.5°	281	318	361	406	451	492	527	555	575	594	619
10°	290	327	370	417	463	504	538	562	582	602	631
7.5°	297	335	379	426	473	515	546	569	589	610	641
5°	302	341	386	435	481	523	552	575	594	616	648
2.5°	307	347	392	444	489	530	559	582	601	622	654
0°	310	350	396	449	494	533	562	587	605	625	656
-2.5°	312	353	399	451	496	534	565	588	606	626	656
-5°	312	354	400	449	495	533	565	588	605	623	653
-7.5°	311	354	400	447	493	532	563	586	603	621	649
-10°	310	352	397	444	490	528	559	583	600	617	643
-12.5°	309	349	394	439	484	523	554	579	597	612	635
-15°	306	345	388	434	478	518	549	574	594	608	625
-17.5°	303	341	382	426	470	512	543	570	589	603	619
-20°	299	335	374	417	461	503	536	562	583	599	613



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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°	295	329	366	408	451	492	527	556	577	593	606
-25°	289	323	358	398	440	481	518	548	570	586	600
-27.5°	282	316	350	387	428	468	505	536	560	578	593
-30°	274	308	341	376	415	454	490	522	548	568	584
-32.5°	266	301	332	366	402	439	474	506	533	556	573
-35°	257	290	321	353	388	423	456	488	516	540	559
-37.5°	247	279	310	340	373	404	438	467	496	523	542
-40°	236	267	297	327	356	385	416	446	475	500	524
-42.5°	226	255	284	312	338	366	394	423	450	475	499
-45°	212	242	271	296	320	345	372	399	424	448	472
-47.5°	198	228	255	279	301	325	349	373	396	419	442
-50°	184	212	238	260	282	304	326	346	367	389	410
-52.5°	170	195	219	240	261	281	301	319	338	357	376
-55°	155	178	198	219	239	257	275	292	309	325	342
-57.5°	141	160	179	198	217	234	249	265	280	295	309
-60°	126	143	160	177	194	209	223	237	250	264	277
-62.5°	111	126	141	156	171	185	197	209	222	233	245
-65°	96	109	123	136	150	161	171	182	192	202	213
-67.5°	80	91	104	117	128	137	146	156	164	172	181
-70°	62	73	83	94	105	114	121	128	136	143	150
-72.5°	45	54	63	72	79	88	95	101	107	114	120
-75°	31	36	42	50	56	62	67	73	79	84	89
-77.5°	19	23	28	31	34	39	43	47	51	54	56
-80°	11	12	15	18	20	22	24	25	27	29	31
-82.5°	7	8	9	10	10	10	11	12	13	14	15
-85°	4	4	5	6	6	6	7	7	7	7	8
-87.5°	2	2	3	3	3	3	4	4	4	4	5
-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	0	1	1	1	1	1	1
62.5°	3	3	3	3	3	3	4	4	4	3	3
60°	12	10	10	11	11	10	11	11	11	11	11
57.5°	26	24	23	27	27	24	26	30	31	31	31
55°	46	49	49	53	56	60	63	65	67	68	71
52.5°	79	84	84	88	97	100	99	105	108	108	109
50°	122	128	134	142	149	152	153	158	161	162	163
47.5°	170	179	188	198	206	211	219	225	227	229	233
45°	216	227	239	250	258	265	271	278	282	287	290
42.5°	261	276	292	300	301	312	322	325	332	335	336
40°	315	331	345	352	359	370	376	377	381	388	390
37.5°	367	386	400	409	417	426	431	438	447	453	457
35°	413	429	447	454	464	474	484	496	507	519	529
32.5°	448	465	479	491	502	518	534	554	571	591	612
30°	479	496	512	525	544	568	595	627	659	689	724
27.5°	510	529	547	568	597	632	680	725	781	822	895
25°	542	561	587	621	662	721	789	859	961	1052	1208
22.5°	570	595	631	677	742	826	927	1064	1270	1519	1844
20°	597	629	675	743	830	942	1116	1411	1788	2440	3095
17.5°	621	665	723	804	915	1097	1425	1947	2783	4117	5530
15°	639	692	767	871	1032	1318	1820	2790	4529	6671	9177
12.5°	659	718	804	927	1141	1594	2510	4149	6680	10058	13446
10°	676	744	846	1009	1322	1975	3255	5636	9272	13669	17915
7.5°	689	764	879	1077	1499	2433	4278	7429	11805	16874	22067
5°	698	778	904	1138	1644	2777	5033	8809	13776	19529	25428
2.5°	706	790	926	1182	1741	2994	5516	9640	14911	21122	27198
0°	708	794	932	1190	1781	3137	5758	10013	15313	21721	27758
-2.5°	708	791	934	1194	1741	3079	5674	9888	15043	21506	27425
-5°	703	781	913	1155	1673	2875	5340	9275	14194	20138	25747
-7.5°	695	769	887	1095	1546	2553	4608	7982	12491	17598	22917
-10°	684	751	855	1028	1371	2104	3561	6261	10150	14614	19004
-12.5°	671	728	816	943	1180	1699	2766	4679	7566	11211	14783
-15°	656	705	781	890	1070	1400	1983	3182	5282	7832	10614
-17.5°	644	683	744	826	945	1160	1551	2204	3299	5049	6819
-20°	631	661	709	776	868	995	1201	1567	2031	2954	3814



REPORT NUMBER: P731755
 CATALOG NUMBER: NHRS50U33BZ750-VS_50

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	621	644	679	727	796	889	1006	1178	1428	1755	2219
-25°	613	628	654	691	738	802	882	973	1104	1233	1451
-27.5°	605	618	634	660	695	732	786	844	916	979	1079
-30°	597	609	621	636	658	684	716	755	796	836	886
-32.5°	587	600	610	621	632	649	667	692	717	744	771
-35°	575	588	601	608	615	625	635	648	661	679	695
-37.5°	560	575	586	594	601	606	613	620	627	638	647
-40°	541	558	569	579	585	592	597	602	606	613	618
-42.5°	520	535	549	559	568	575	580	585	591	594	598
-45°	493	509	524	535	547	553	560	567	571	576	580
-47.5°	461	479	492	506	517	526	534	542	548	553	559
-50°	427	444	458	471	483	493	503	511	517	522	529
-52.5°	395	408	422	436	446	456	465	472	479	484	490
-55°	358	371	384	396	407	416	424	431	436	441	448
-57.5°	323	336	348	358	367	376	383	388	393	396	402
-60°	290	302	312	321	330	336	342	346	349	352	357
-62.5°	256	267	276	285	292	299	303	306	308	310	314
-65°	223	232	241	249	256	262	265	269	270	272	274
-67.5°	189	197	205	213	219	224	228	230	232	234	236
-70°	157	163	169	175	180	185	188	191	193	194	196
-72.5°	125	131	135	140	144	148	150	152	153	155	156
-75°	94	98	101	104	107	109	111	113	114	116	117
-77.5°	59	62	65	67	70	71	72	73	73	74	74
-80°	33	35	36	37	38	39	40	40	41	41	42
-82.5°	16	17	18	18	18	18	18	18	18	19	19
-85°	8	8	9	9	9	9	9	9	9	9	9
-87.5°	5	5	5	6	6	6	6	6	7	7	7
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731755
 CATALOG NUMBER: NHRS50U33BZ750-VS_50

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°	3	3	3	3	3	3	3	3	3	4	4
60°	11	11	11	10	11	11	11	11	11	11	11
57.5°	29	26	25	25	25	26	29	31	31	31	30
55°	73	74	75	75	75	74	73	71	68	67	65
52.5°	111	111	113	114	113	111	111	109	108	108	105
50°	162	158	158	159	158	158	162	163	162	161	158
47.5°	239	244	249	247	249	244	239	233	229	227	225
45°	295	298	302	304	302	298	295	290	287	282	278
42.5°	341	343	345	348	345	343	341	336	335	332	325
40°	395	399	401	401	401	399	395	390	388	381	377
37.5°	464	470	474	477	474	470	464	457	453	447	438
35°	539	549	557	558	557	549	539	529	519	507	496
32.5°	628	643	655	656	655	643	628	612	591	571	554
30°	749	771	787	799	787	771	749	724	689	659	627
27.5°	948	994	1027	1044	1027	994	948	895	822	781	725
25°	1351	1456	1519	1586	1519	1456	1351	1208	1052	961	859
22.5°	2230	2508	2677	2887	2677	2508	2230	1844	1519	1270	1064
20°	4061	4743	5076	5408	5076	4743	4061	3095	2440	1788	1411
17.5°	7235	8342	9213	9130	9213	8342	7235	5530	4117	2783	1947
15°	11564	13266	14341	14711	14341	13266	11564	9177	6671	4529	2790
12.5°	16545	19136	20899	21260	20899	19136	16545	13446	10058	6680	4149
10°	22107	25024	26968	27576	26968	25024	22107	17915	13669	9272	5636
7.5°	26804	29925	31638	32348	31638	29925	26804	22067	16874	11805	7429
5°	29918	33208	34874	35707	34874	33208	29918	25428	19529	13776	8809
2.5°	31723	34851	37174	38034	37174	34851	31723	27198	21122	14911	9640
0°	32086	35220	37656	38729	37656	35220	32086	27758	21721	15313	10013
-2.5°	31698	34464	36436	36995	36436	34464	31698	27425	21506	15043	9888
-5°	30158	32842	34292	34633	34292	32842	30158	25747	20138	14194	9275
-7.5°	27246	30099	31621	31940	31621	30099	27246	22917	17598	12491	7982
-10°	23048	25974	27550	27921	27550	25974	23048	19004	14614	10150	6261
-12.5°	18000	20583	22060	22189	22060	20583	18000	14783	11211	7566	4679
-15°	13139	15027	16092	16022	16092	15027	13139	10614	7832	5282	3182
-17.5°	8621	9948	10676	10912	10676	9948	8621	6819	5049	3299	2204
-20°	5039	5908	6466	6524	6466	5908	5039	3814	2954	2031	1567



REPORT NUMBER: P731755
 CATALOG NUMBER: NHRS50U33BZ750-VS_50

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2804	3257	3547	3544	3547	3257	2804	2219	1755	1428	1178
-25°	1672	1842	1947	1965	1947	1842	1672	1451	1233	1104	973
-27.5°	1160	1226	1271	1270	1271	1226	1160	1079	979	916	844
-30°	926	958	986	978	986	958	926	886	836	796	755
-32.5°	794	810	824	823	824	810	794	771	744	717	692
-35°	708	720	728	726	728	720	708	695	679	661	648
-37.5°	655	662	667	668	667	662	655	647	638	627	620
-40°	624	629	632	634	632	629	624	618	613	606	602
-42.5°	603	608	612	613	612	608	603	598	594	591	585
-45°	586	590	594	596	594	590	586	580	576	571	567
-47.5°	565	570	574	575	574	570	565	559	553	548	542
-50°	535	541	544	544	544	541	535	529	522	517	511
-52.5°	496	500	504	506	504	500	496	490	484	479	472
-55°	454	458	462	462	462	458	454	448	441	436	431
-57.5°	406	409	413	414	413	409	406	402	396	393	388
-60°	360	362	364	363	364	362	360	357	352	349	346
-62.5°	316	317	319	321	319	317	316	314	310	308	306
-65°	276	277	278	276	278	277	276	274	272	270	269
-67.5°	237	239	238	237	238	239	237	236	234	232	230
-70°	197	198	197	195	197	198	197	196	194	193	191
-72.5°	157	158	157	156	157	158	157	156	155	153	152
-75°	117	118	117	116	117	118	117	117	116	114	113
-77.5°	74	74	73	72	73	74	74	74	74	73	73
-80°	43	42	42	41	42	42	43	42	41	41	40
-82.5°	19	19	19	19	19	19	19	19	19	18	18
-85°	10	10	10	10	10	10	10	9	9	9	9
-87.5°	7	7	7	7	7	7	7	7	7	7	6
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731755
 CATALOG NUMBER: NHRS50U33BZ750-VS_50

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	1	1	1	1	2
62.5°	4	3	3	3	3	3	3	4	4	3	5
60°	11	10	11	11	10	10	12	12	9	10	11
57.5°	26	24	27	27	23	24	26	25	23	23	22
55°	63	60	56	53	49	49	46	44	43	42	41
52.5°	99	100	97	88	84	84	79	72	69	69	65
50°	153	152	149	142	134	128	122	110	104	101	96
47.5°	219	211	206	198	188	179	170	162	146	135	128
45°	271	265	258	250	239	227	216	207	191	175	162
42.5°	322	312	301	300	292	276	261	255	240	216	200
40°	376	370	359	352	345	331	315	303	289	268	240
37.5°	431	426	417	409	400	386	367	350	338	314	286
35°	484	474	464	454	447	429	413	395	378	353	327
32.5°	534	518	502	491	479	465	448	433	415	390	362
30°	595	568	544	525	512	496	479	465	448	427	395
27.5°	680	632	597	568	547	529	510	496	480	458	429
25°	789	721	662	621	587	561	542	526	509	488	461
22.5°	927	826	742	677	631	595	570	553	537	513	486
20°	1116	942	830	743	675	629	597	575	554	533	509
17.5°	1425	1097	915	804	723	665	621	591	570	551	532
15°	1820	1318	1032	871	767	692	639	604	583	565	546
12.5°	2510	1594	1141	927	804	718	659	619	594	575	555
10°	3255	1975	1322	1009	846	744	676	631	602	582	562
7.5°	4278	2433	1499	1077	879	764	689	641	610	589	569
5°	5033	2777	1644	1138	904	778	698	648	616	594	575
2.5°	5516	2994	1741	1182	926	790	706	654	622	601	582
0°	5758	3137	1781	1190	932	794	708	656	625	605	587
-2.5°	5674	3079	1741	1194	934	791	708	656	626	606	588
-5°	5340	2875	1673	1155	913	781	703	653	623	605	588
-7.5°	4608	2553	1546	1095	887	769	695	649	621	603	586
-10°	3561	2104	1371	1028	855	751	684	643	617	600	583
-12.5°	2766	1699	1180	943	816	728	671	635	612	597	579
-15°	1983	1400	1070	890	781	705	656	625	608	594	574
-17.5°	1551	1160	945	826	744	683	644	619	603	589	570
-20°	1201	995	868	776	709	661	631	613	599	583	562



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 CATALOG NUMBER: NHRS50U33BZ750-VS_50

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1006	889	796	727	679	644	621	606	593	577	556
-25°	882	802	738	691	654	628	613	600	586	570	548
-27.5°	786	732	695	660	634	618	605	593	578	560	536
-30°	716	684	658	636	621	609	597	584	568	548	522
-32.5°	667	649	632	621	610	600	587	573	556	533	506
-35°	635	625	615	608	601	588	575	559	540	516	488
-37.5°	613	606	601	594	586	575	560	542	523	496	467
-40°	597	592	585	579	569	558	541	524	500	475	446
-42.5°	580	575	568	559	549	535	520	499	475	450	423
-45°	560	553	547	535	524	509	493	472	448	424	399
-47.5°	534	526	517	506	492	479	461	442	419	396	373
-50°	503	493	483	471	458	444	427	410	389	367	346
-52.5°	465	456	446	436	422	408	395	376	357	338	319
-55°	424	416	407	396	384	371	358	342	325	309	292
-57.5°	383	376	367	358	348	336	323	309	295	280	265
-60°	342	336	330	321	312	302	290	277	264	250	237
-62.5°	303	299	292	285	276	267	256	245	233	222	209
-65°	265	262	256	249	241	232	223	213	202	192	182
-67.5°	228	224	219	213	205	197	189	181	172	164	156
-70°	188	185	180	175	169	163	157	150	143	136	128
-72.5°	150	148	144	140	135	131	125	120	114	107	101
-75°	111	109	107	104	101	98	94	89	84	79	73
-77.5°	72	71	70	67	65	62	59	56	54	51	47
-80°	40	39	38	37	36	35	33	31	29	27	25
-82.5°	18	18	18	18	18	17	16	15	14	13	12
-85°	9	9	9	9	9	8	8	8	7	7	7
-87.5°	6	6	6	6	5	5	5	5	4	4	4
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731755
 CATALOG NUMBER: NHRS50U33BZ750-VS_50

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	1	1	1	1
67.5°	0	1	1	1	1	1	1	1	2	1	1
65°	2	1	1	2	2	2	1	2	3	2	2
62.5°	4	3	3	4	4	3	2	4	4	3	2
60°	10	9	9	10	8	5	6	7	7	5	4
57.5°	21	16	19	19	16	11	10	11	10	7	5
55°	36	32	33	32	27	21	18	18	14	11	7
52.5°	58	53	51	48	42	33	30	25	21	15	12
50°	85	78	73	67	59	52	44	37	29	20	17
47.5°	120	109	97	89	79	71	61	50	37	28	22
45°	154	143	126	112	101	91	80	64	50	37	28
42.5°	189	177	160	136	124	112	101	81	63	47	36
40°	225	210	194	169	147	132	118	99	76	57	44
37.5°	263	244	224	200	171	153	136	118	91	70	53
35°	300	279	255	228	198	174	155	135	107	82	61
32.5°	335	311	282	253	224	195	174	150	122	93	69
30°	366	339	310	278	248	217	191	164	136	105	78
27.5°	396	367	336	302	271	238	205	177	149	117	88
25°	425	394	361	326	292	255	219	191	161	128	97
22.5°	453	420	385	349	308	270	234	203	172	139	106
20°	478	444	408	366	323	284	247	214	183	149	115
17.5°	500	464	423	380	337	297	260	225	192	158	123
15°	515	479	438	394	349	308	271	235	202	167	130
12.5°	527	492	451	406	361	318	281	244	210	174	136
10°	538	504	463	417	370	327	290	252	216	178	141
7.5°	546	515	473	426	379	335	297	257	221	183	145
5°	552	523	481	435	386	341	302	262	226	187	150
2.5°	559	530	489	444	392	347	307	267	228	189	152
0°	562	533	494	449	396	350	310	270	230	192	154
-2.5°	565	534	496	451	399	353	312	272	232	193	156
-5°	565	533	495	449	400	354	312	273	235	195	157
-7.5°	563	532	493	447	400	354	311	273	234	194	157
-10°	559	528	490	444	397	352	310	273	234	193	156
-12.5°	554	523	484	439	394	349	309	271	232	192	156
-15°	549	518	478	434	388	345	306	269	230	191	154
-17.5°	543	512	470	426	382	341	303	266	227	188	153
-20°	536	503	461	417	374	335	299	262	223	186	151



REPORT NUMBER: P731755
 CATALOG NUMBER: NHRS50U33BZ750-VS_50

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	527	492	451	408	366	329	295	257	219	182	148
-25°	518	481	440	398	358	323	289	252	214	178	145
-27.5°	505	468	428	387	350	316	282	246	209	174	142
-30°	490	454	415	376	341	308	274	239	203	169	137
-32.5°	474	439	402	366	332	301	266	231	197	163	133
-35°	456	423	388	353	321	290	257	223	190	158	128
-37.5°	438	404	373	340	310	279	247	214	182	151	123
-40°	416	385	356	327	297	267	236	204	174	144	118
-42.5°	394	366	338	312	284	255	226	194	165	137	111
-45°	372	345	320	296	271	242	212	183	155	130	105
-47.5°	349	325	301	279	255	228	198	171	145	122	97
-50°	326	304	282	260	238	212	184	159	135	114	89
-52.5°	301	281	261	240	219	195	170	147	125	104	81
-55°	275	257	239	219	198	178	155	134	114	94	73
-57.5°	249	234	217	198	179	160	141	122	103	83	64
-60°	223	209	194	177	160	143	126	108	91	73	56
-62.5°	197	185	171	156	141	126	111	95	79	62	47
-65°	171	161	150	136	123	109	96	81	66	52	38
-67.5°	146	137	128	117	104	91	80	66	53	40	31
-70°	121	114	105	94	83	73	62	51	39	31	23
-72.5°	95	88	79	72	63	54	45	36	30	23	16
-75°	67	62	56	50	42	36	31	26	20	14	12
-77.5°	43	39	34	31	28	23	19	15	12	11	9
-80°	24	22	20	18	15	12	11	10	9	7	5
-82.5°	11	10	10	10	9	8	7	6	5	4	3
-85°	7	6	6	6	5	4	4	3	3	2	2
-87.5°	4	3	3	3	3	2	2	2	2	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731755
 CATALOG NUMBER: NHRS50U33BZ750-VS_50

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	1	1	1	1	0	0
70°	1	1	1	1	1	1	0
67.5°	2	2	2	1	1	1	0
65°	2	2	2	1	1	1	0
62.5°	3	3	2	2	1	1	0
60°	4	4	2	2	1	1	0
57.5°	6	5	3	2	1	1	0
55°	8	6	4	2	1	1	0
52.5°	11	7	5	3	2	1	0
50°	13	10	6	3	2	1	0
47.5°	16	13	8	3	2	1	0
45°	22	15	9	4	2	1	0
42.5°	27	18	10	5	2	1	0
40°	32	21	12	6	3	1	0
37.5°	38	24	14	7	3	1	0
35°	44	28	16	9	3	1	0
32.5°	50	33	19	9	3	1	0
30°	57	38	21	10	4	1	0
27.5°	64	42	24	11	4	1	0
25°	71	47	26	12	4	1	0
22.5°	77	52	29	13	4	1	0
20°	83	56	31	14	5	1	0
17.5°	89	61	33	15	5	1	0
15°	95	65	36	16	5	1	0
12.5°	100	69	38	17	5	1	0
10°	105	73	40	18	6	1	0
7.5°	109	76	43	19	6	1	0
5°	114	81	45	19	6	1	0
2.5°	117	83	46	20	6	1	0
0°	120	85	47	20	6	1	0
-2.5°	122	87	48	21	6	1	0
-5°	123	89	49	21	7	1	0
-7.5°	123	89	50	22	7	1	0
-10°	123	89	50	22	7	1	0
-12.5°	123	89	50	22	7	1	0
-15°	122	88	49	22	7	1	0
-17.5°	122	88	49	22	7	1	0
-20°	120	86	48	21	7	1	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	118	84	47	21	7	1	0
-25°	115	81	46	21	7	1	0
-27.5°	112	78	45	20	6	1	0
-30°	109	74	42	19	6	1	0
-32.5°	105	71	40	19	6	1	0
-35°	100	66	38	18	6	1	0
-37.5°	94	62	35	16	6	1	0
-40°	89	58	32	15	5	1	0
-42.5°	83	54	29	14	5	1	0
-45°	76	50	27	12	5	1	0
-47.5°	70	45	25	11	4	1	0
-50°	63	40	23	10	4	1	0
-52.5°	57	36	20	9	4	1	0
-55°	51	31	18	8	3	1	0
-57.5°	45	28	14	7	3	1	0
-60°	38	24	12	6	2	1	0
-62.5°	32	20	10	5	2	1	0
-65°	27	15	9	5	2	1	0
-67.5°	21	12	7	4	2	1	0
-70°	15	10	6	3	2	1	0
-72.5°	12	8	4	2	1	1	0
-75°	9	6	3	2	1	1	0
-77.5°	6	4	2	2	1	1	0
-80°	4	3	2	1	1	1	0
-82.5°	3	2	2	1	1	0	0
-85°	2	1	1	1	1	0	0
-87.5°	1	1	1	1	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)