

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: P731754

Luminaire Tested: **NHRS50U33BZ750-VS\_25**

Issue Date: 09/15/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P731754  
Test Lab: INNOVATION CENTER  
Issue Date: 09/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NHRS50U33BZ750-VS\_25  
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 3 AT 5000K WITH VISOR @ 25% output  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	4450.6 lumens	Max Intensity:	17396.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.46' x H: 0')		

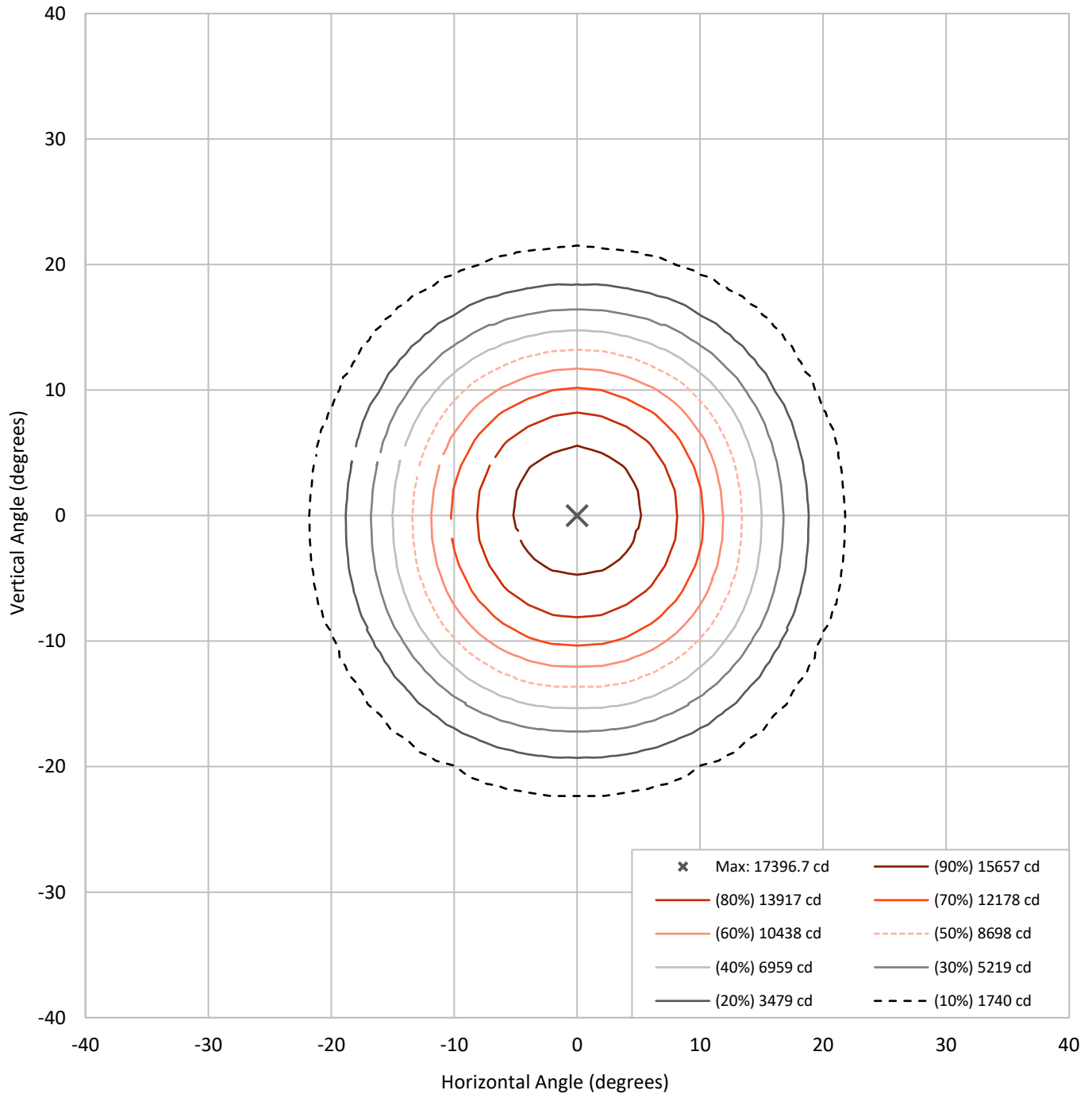
Beam Angle (50%):	26.8°H x 26.9°V	Field Angle (10%):	43.6°H x 43.7°V
Beam Lumens:	2164.5 lumens	Field Lumens:	3504.4 lumens
Beam Efficiency:	48.6%	Field Efficiency:	78.7%

Input Watts (W): 37.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P731754  
CATALOG NUMBER: NHR50U33BZ750-VS\_25

### Iso-Candela Plot





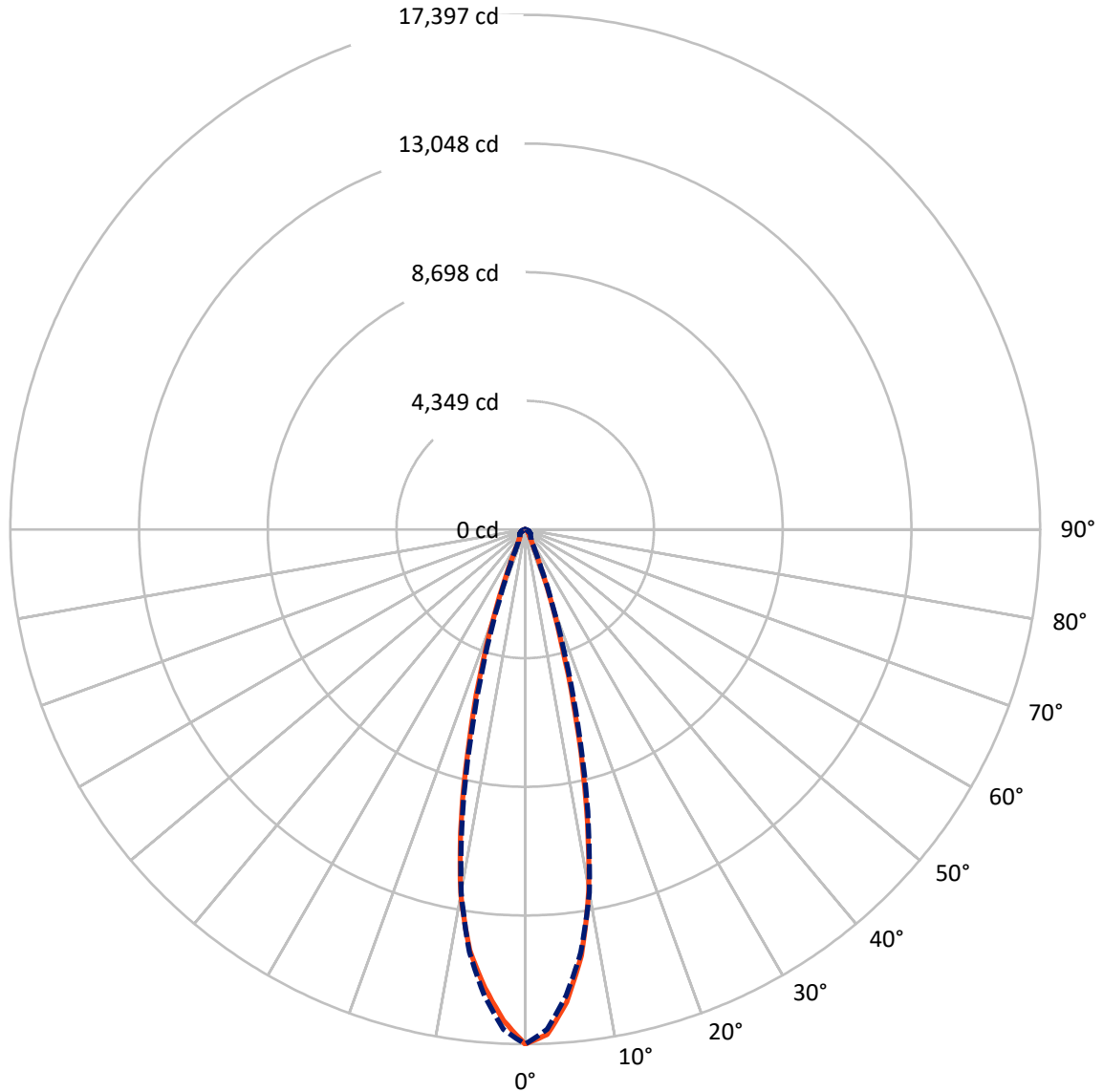
REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

### 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	0.0	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				
60		0.1	0.3	0.4	0.6	0.8	1.0	1.0	1.0	1.0	0.8	0.6	0.4	0.3		0.1			
50	0.3	0.4	0.9	1.6	2.4	3.2	3.7	4.0	4.0	3.7	3.2	2.4	1.6	0.9	0.4	0.3			
40		0.8	1.8	3.1	4.6	5.7	6.8	7.6	7.6	6.8	5.7	4.6	3.1	1.8	0.8				
30	0.7	1.1	2.6	4.4	6.1	8.5	14.4	25.6	25.6	14.4	8.5	6.1	4.4	2.6	1.1	0.7			
20		1.4	3.1	5.2	7.3	14.5	69.8	182.7	182.7	69.8	14.5	7.3	5.2	3.1	1.4				
10	0.9	1.5	3.4	5.5	8.1	25.9	182.6	423.9	423.9	182.6	25.9	8.1	5.5	3.4	1.5	0.9			
0		1.6	3.5	5.6	8.1	26.7	188.3	423.7	423.7	188.3	26.7	8.1	5.6	3.5	1.6				
-10	0.9	1.6	3.4	5.5	7.5	15.3	79.0	201.0	201.0	79.0	15.3	7.5	5.5	3.4	1.6	0.9			
-20		1.5	3.2	5.2	6.9	9.4	16.7	32.1	32.1	16.7	9.4	6.9	5.2	3.2	1.5				
-30	0.7	1.3	2.8	4.7	6.4	7.7	9.0	10.1	10.1	9.0	7.7	6.4	4.7	2.8	1.3	0.7			
-40		1.1	2.3	3.8	5.5	6.7	7.5	8.0	8.0	7.5	6.7	5.5	3.8	2.3	1.1				
-50	0.3	0.8	1.7	2.8	4.0	5.0	5.7	6.2	6.2	5.7	5.0	4.0	2.8	1.7	0.8	0.3			
-60		0.5	1.1	1.8	2.5	3.2	3.6	3.8	3.8	3.6	3.2	2.5	1.8	1.1	0.5				
-70	0.0	0.6	2.0	3.2	3.6	3.2	2.0	0.6	0.0	0.0	0.6	2.0	3.2	3.6	3.2	0.0			
-80		0.0	0.6	2.0	3.2	3.6	3.2	2.0	0.6	0.0	0.0	0.6	2.0	3.2	3.6				
-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: P731754  
CATALOG NUMBER: NHRS50U33BZ750-VS\_25

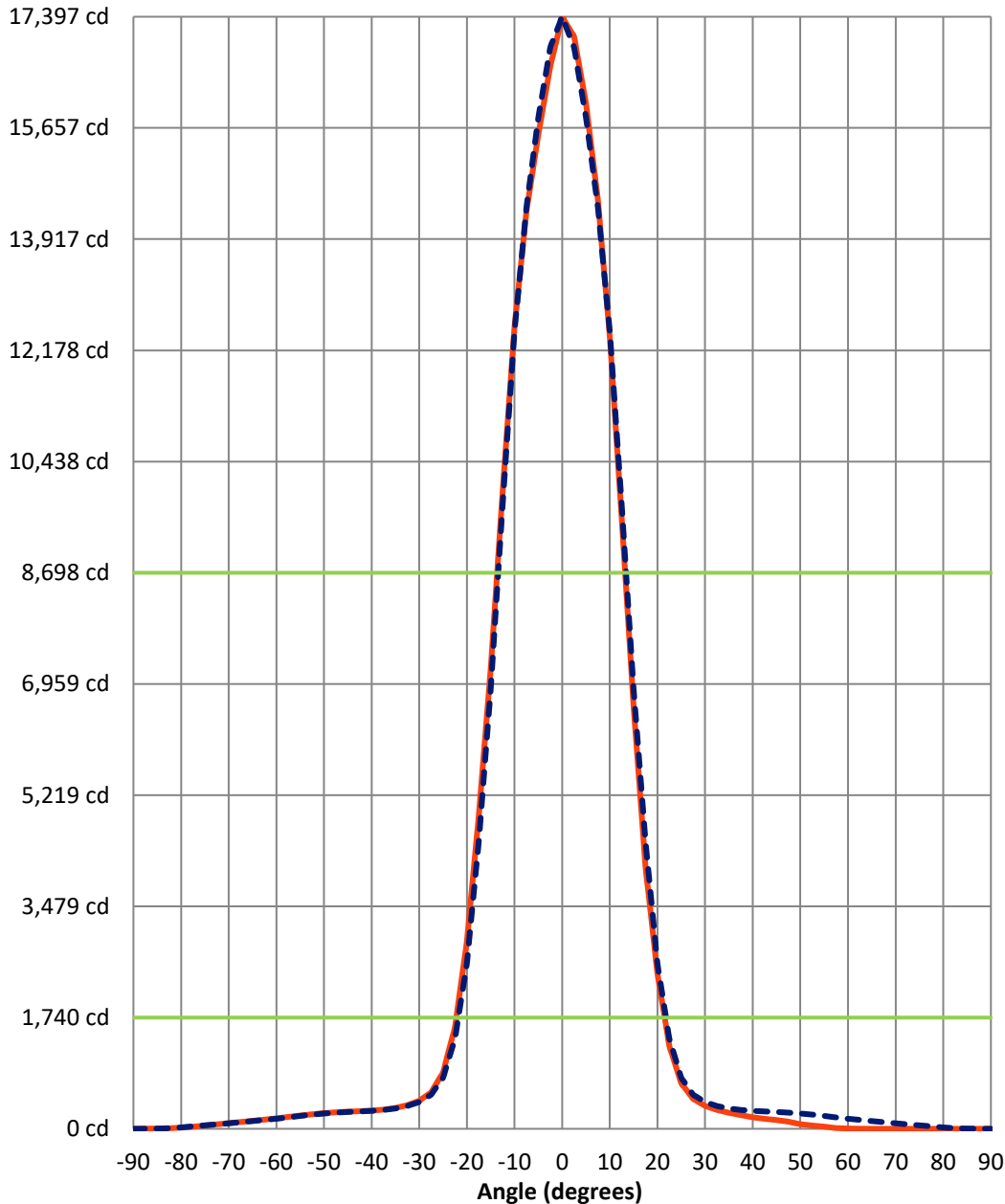
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

### Luminous Intensity Plot



**Beam:**  
 H Angle: 26.8°  
 V Angle: 26.9°  
 Lumens: 2164.5  
 Efficiency: 48.6%

**Field:**  
 H Angle: 43.6°  
 V Angle: 43.7°  
 Lumens: 3504.4  
 Efficiency: 78.7%

**Spill:**  
 Lumens: 946.2  
 Efficiency: 21.3%

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



REPORT NUMBER: P731754  
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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	1	1	0	0	0	0	0
70°	0	0	0	0	1	1	1	1	1	1	1
67.5°	0	0	0	1	1	1	1	1	1	1	1
65°	0	0	0	1	1	1	1	1	1	1	1
62.5°	0	0	0	1	1	1	1	1	1	2	2
60°	0	0	0	1	1	2	2	2	2	3	3
57.5°	0	0	1	1	1	2	3	2	3	5	5
55°	0	0	1	1	2	3	4	3	5	6	8
52.5°	0	0	1	1	2	3	5	6	7	10	11
50°	0	0	1	1	3	5	6	8	9	13	16
47.5°	0	0	1	1	4	6	7	10	12	17	22
45°	0	0	1	2	4	7	10	13	17	22	29
42.5°	0	0	1	2	5	8	12	16	21	28	37
40°	0	0	1	3	6	9	15	20	26	34	45
37.5°	0	0	1	3	6	11	17	24	31	41	53
35°	0	0	1	4	7	13	20	27	37	48	61
32.5°	0	0	1	4	9	15	23	31	42	55	67
30°	0	1	2	5	10	17	26	35	47	61	74
27.5°	0	1	2	5	11	19	29	39	52	67	80
25°	0	1	2	6	12	21	32	44	58	72	86
22.5°	0	1	2	6	13	23	35	48	62	77	91
20°	0	1	2	6	14	25	37	52	67	82	96
17.5°	0	1	2	7	15	27	40	55	71	86	101
15°	0	1	2	7	16	29	43	58	75	91	106
12.5°	0	1	2	8	17	31	45	61	78	94	110
10°	0	1	3	8	18	33	47	63	80	97	113
7.5°	0	1	3	8	19	34	49	65	82	99	116
5°	0	1	3	9	20	36	51	67	84	102	118
2.5°	0	1	3	9	21	37	53	68	85	103	120
0°	0	1	3	9	21	38	54	69	86	103	121
-2.5°	0	1	3	9	22	39	55	70	87	104	122
-5°	0	1	3	10	22	40	55	71	88	105	123
-7.5°	0	1	3	10	23	40	55	70	87	105	123
-10°	0	1	3	10	22	40	55	70	87	105	123
-12.5°	0	1	3	10	22	40	55	70	86	104	122
-15°	0	1	3	10	22	40	55	69	86	103	121
-17.5°	0	1	3	10	22	39	55	69	85	102	119
-20°	0	1	3	10	22	39	54	68	83	100	118



REPORT NUMBER: P731754

CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	1	3	10	21	38	53	67	82	98	116
-25°	0	1	3	9	21	37	52	65	80	96	113
-27.5°	0	1	3	9	20	35	50	64	78	94	110
-30°	0	1	3	9	19	33	49	62	76	91	107
-32.5°	0	1	3	8	18	32	47	60	73	88	104
-35°	0	1	3	8	17	30	45	57	71	85	100
-37.5°	0	1	3	7	16	28	42	55	68	82	96
-40°	0	1	2	7	14	26	40	53	65	78	92
-42.5°	0	1	2	6	13	24	37	50	62	74	87
-45°	0	1	2	6	12	22	34	47	58	70	82
-47.5°	0	1	2	5	11	20	31	44	55	65	77
-50°	0	1	2	4	10	18	28	40	51	61	71
-52.5°	0	1	2	4	9	16	26	36	47	56	66
-55°	0	1	1	4	8	14	23	33	42	51	60
-57.5°	0	1	1	3	6	12	20	29	37	46	55
-60°	0	0	1	3	5	11	17	25	33	41	49
-62.5°	0	0	1	2	5	9	15	21	28	35	43
-65°	0	0	1	2	4	7	12	17	23	30	36
-67.5°	0	0	1	2	3	5	9	14	18	24	30
-70°	0	0	1	1	3	5	7	11	14	18	23
-72.5°	0	0	1	1	2	4	5	7	10	13	16
-75°	0	0	1	1	1	3	4	5	6	9	11
-77.5°	0	0	1	1	1	2	3	4	5	5	7
-80°	0	0	0	1	1	1	2	2	3	4	4
-82.5°	0	0	0	1	1	1	1	1	2	2	3
-85°	0	0	0	0	1	1	1	1	1	1	1
-87.5°	0	0	0	0	0	0	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**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	0	0	0	0	0	0
65°	1	1	1	1	0	1	1	1	1	1	1
62.5°	1	1	2	2	1	1	2	2	1	2	2
60°	3	2	4	4	4	4	4	5	5	4	5
57.5°	5	5	7	8	9	7	9	10	11	10	11
55°	8	9	12	14	15	15	16	18	19	19	20
52.5°	14	15	19	21	23	24	26	29	31	31	32
50°	20	23	27	30	33	35	38	43	45	47	49
47.5°	27	32	36	40	44	49	54	58	61	66	73
45°	36	41	45	50	57	64	69	73	78	86	93
42.5°	45	50	56	61	72	80	85	90	97	108	114
40°	53	59	66	76	87	94	101	108	120	130	136
37.5°	61	69	77	90	101	109	118	129	141	152	157
35°	70	78	89	102	114	125	135	147	159	170	177
32.5°	78	88	101	114	127	140	150	163	175	186	195
30°	86	98	112	125	139	152	164	177	192	201	209
27.5°	92	107	122	136	151	165	178	193	206	216	223
25°	98	114	131	147	162	177	191	207	219	229	236
22.5°	105	121	139	157	173	189	204	218	230	241	248
20°	111	128	145	164	183	200	215	229	240	249	258
17.5°	117	134	151	171	190	209	225	239	248	256	265
15°	122	139	157	177	197	215	231	245	254	262	271
12.5°	126	143	162	182	203	221	237	249	258	267	278
10°	130	147	166	187	208	226	241	253	261	271	283
7.5°	133	150	170	191	212	231	245	256	265	274	288
5°	136	153	173	195	216	235	248	258	267	277	291
2.5°	138	156	176	199	220	238	251	261	270	279	294
0°	139	157	178	202	222	239	253	264	272	281	295
-2.5°	140	159	179	202	223	240	254	264	272	281	295
-5°	140	159	180	202	222	240	254	264	272	280	293
-7.5°	140	159	180	201	221	239	253	263	271	279	292
-10°	139	158	179	200	220	237	251	262	270	277	289
-12.5°	139	157	177	197	218	235	249	260	268	275	285
-15°	138	155	175	195	215	233	246	258	267	273	281
-17.5°	136	153	172	191	211	230	244	256	265	271	278
-20°	134	151	168	187	207	226	241	253	262	269	275



REPORT NUMBER: P731754

CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	132	148	164	183	203	221	237	250	259	267	272
-25°	130	145	161	179	198	216	233	246	256	263	270
-27.5°	127	142	157	174	192	210	227	241	251	260	267
-30°	123	139	153	169	187	204	220	235	246	255	262
-32.5°	119	135	149	164	180	197	213	227	239	250	257
-35°	115	130	144	159	175	190	205	219	232	242	251
-37.5°	111	125	139	153	167	182	197	210	223	235	244
-40°	106	120	134	147	160	173	187	200	213	225	236
-42.5°	102	115	128	140	152	164	177	190	202	214	224
-45°	95	109	122	133	144	155	167	179	190	201	212
-47.5°	89	102	115	125	135	146	157	167	178	188	199
-50°	83	95	107	117	127	136	146	155	165	175	184
-52.5°	76	88	98	108	117	126	135	144	152	160	169
-55°	70	80	89	98	107	116	124	131	139	146	154
-57.5°	63	72	81	89	97	105	112	119	126	132	139
-60°	57	64	72	80	87	94	100	106	113	119	124
-62.5°	50	57	63	70	77	83	89	94	100	105	110
-65°	43	49	55	61	67	72	77	82	86	91	96
-67.5°	36	41	47	52	57	62	66	70	74	78	81
-70°	28	33	37	42	47	51	54	58	61	64	67
-72.5°	20	24	28	32	36	39	43	45	48	51	54
-75°	14	16	19	22	25	28	30	33	35	38	40
-77.5°	9	11	12	14	15	17	19	21	23	24	25
-80°	5	5	7	8	9	10	11	11	12	13	14
-82.5°	3	4	4	4	4	5	5	5	6	6	7
-85°	2	2	2	3	3	3	3	3	3	3	4
-87.5°	1	1	1	1	1	1	2	2	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**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	0	0	0	0	0	0	0	0	0	0
62.5°	1	1	1	1	1	1	2	2	2	1	1
60°	5	4	4	5	5	4	5	5	5	5	5
57.5°	11	11	10	12	12	11	11	13	14	14	14
55°	21	22	22	24	25	27	28	29	30	31	32
52.5°	35	38	38	39	44	45	44	47	49	48	49
50°	55	57	60	64	67	68	69	71	73	73	73
47.5°	77	81	85	89	93	95	98	101	102	103	105
45°	97	102	108	112	116	119	122	125	127	129	130
42.5°	117	124	131	135	135	140	144	146	149	151	151
40°	141	149	155	158	161	166	169	169	171	174	175
37.5°	165	173	180	184	187	191	194	197	201	203	205
35°	185	193	201	204	208	213	218	223	228	233	238
32.5°	201	209	215	221	226	233	240	249	256	266	275
30°	215	223	230	236	245	255	267	282	296	309	325
27.5°	229	237	246	255	268	284	305	326	351	369	402
25°	243	252	264	279	297	324	354	386	432	473	542
22.5°	256	267	284	304	333	371	416	478	570	682	828
20°	268	283	303	334	373	423	501	634	803	1096	1390
17.5°	279	299	325	361	411	493	640	874	1250	1849	2484
15°	287	311	345	391	464	592	818	1253	2034	2997	4122
12.5°	296	323	361	416	512	716	1128	1864	3001	4518	6040
10°	304	334	380	453	594	887	1462	2532	4165	6140	8047
7.5°	310	343	395	484	674	1093	1921	3337	5303	7580	9912
5°	313	349	406	511	738	1247	2261	3957	6188	8772	11422
2.5°	317	355	416	531	782	1345	2478	4330	6698	9488	12217
0°	318	357	419	534	800	1409	2586	4498	6878	9757	12468
-2.5°	318	355	420	536	782	1383	2549	4442	6757	9660	12319
-5°	316	351	410	519	751	1292	2399	4166	6376	9046	11565
-7.5°	312	346	399	492	694	1147	2070	3585	5611	7905	10294
-10°	307	338	384	462	616	945	1600	2813	4559	6565	8536
-12.5°	301	327	366	424	530	763	1242	2102	3398	5036	6640
-15°	295	317	351	400	481	629	891	1430	2373	3518	4768
-17.5°	289	307	334	371	425	521	697	990	1482	2268	3063
-20°	284	297	318	349	390	447	540	704	912	1327	1713



REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	279	289	305	327	358	399	452	529	641	788	997
-25°	275	282	294	310	332	360	396	437	496	554	652
-27.5°	272	278	285	296	312	329	353	379	412	440	485
-30°	268	273	279	286	296	307	322	339	358	376	398
-32.5°	264	270	274	279	284	292	300	311	322	334	346
-35°	258	264	270	273	276	281	285	291	297	305	312
-37.5°	251	258	263	267	270	272	276	279	282	287	291
-40°	243	251	256	260	263	266	268	270	272	275	278
-42.5°	234	241	246	251	255	258	261	263	265	267	269
-45°	222	229	235	241	246	249	251	255	257	259	261
-47.5°	207	215	221	227	232	236	240	243	246	248	251
-50°	192	199	206	212	217	222	226	230	232	235	237
-52.5°	177	183	190	196	200	205	209	212	215	217	220
-55°	161	167	172	178	183	187	190	194	196	198	201
-57.5°	145	151	156	161	165	169	172	174	176	178	180
-60°	130	136	140	144	148	151	154	155	157	158	160
-62.5°	115	120	124	128	131	134	136	138	139	139	141
-65°	100	104	108	112	115	118	119	121	121	122	123
-67.5°	85	89	92	96	98	101	102	103	104	105	106
-70°	71	73	76	79	81	83	85	86	87	87	88
-72.5°	56	59	61	63	65	66	67	68	69	70	70
-75°	42	44	45	47	48	49	50	51	51	52	52
-77.5°	27	28	29	30	31	32	32	33	33	33	33
-80°	15	16	16	17	17	17	18	18	18	19	19
-82.5°	7	8	8	8	8	8	8	8	8	8	8
-85°	4	4	4	4	4	4	4	4	4	4	4
-87.5°	2	2	2	3	3	3	3	3	3	3	3
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**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	0	0	0	0
62.5°	1	1	1	1	1	1	1	1	1	2	2
60°	5	5	5	5	5	5	5	5	5	5	5
57.5°	13	11	11	11	11	11	13	14	14	14	13
55°	33	33	34	34	34	33	33	32	31	30	29
52.5°	50	50	51	51	51	50	50	49	48	49	47
50°	73	71	71	72	71	71	73	73	73	73	71
47.5°	108	109	112	111	112	109	108	105	103	102	101
45°	133	134	136	137	136	134	133	130	129	127	125
42.5°	153	154	155	156	155	154	153	151	151	149	146
40°	178	179	180	180	180	179	178	175	174	171	169
37.5°	209	211	213	214	213	211	209	205	203	201	197
35°	242	246	250	251	250	246	242	238	233	228	223
32.5°	282	289	294	295	294	289	282	275	266	256	249
30°	337	346	353	359	353	346	337	325	309	296	282
27.5°	426	447	461	469	461	447	426	402	369	351	326
25°	607	654	682	712	682	654	607	542	473	432	386
22.5°	1002	1127	1202	1297	1202	1127	1002	828	682	570	478
20°	1824	2130	2280	2429	2280	2130	1824	1390	1096	803	634
17.5°	3250	3747	4138	4101	4138	3747	3250	2484	1849	1250	874
15°	5195	5959	6442	6608	6442	5959	5195	4122	2997	2034	1253
12.5°	7432	8596	9388	9550	9388	8596	7432	6040	4518	3001	1864
10°	9930	11241	12114	12387	12114	11241	9930	8047	6140	4165	2532
7.5°	12040	13442	14211	14530	14211	13442	12040	9912	7580	5303	3337
5°	13439	14917	15665	16039	15665	14917	13439	11422	8772	6188	3957
2.5°	14250	15655	16698	17084	16698	15655	14250	12217	9488	6698	4330
0°	14413	15820	16915	17397	16915	15820	14413	12468	9757	6878	4498
-2.5°	14238	15481	16367	16618	16367	15481	14238	12319	9660	6757	4442
-5°	13547	14752	15403	15557	15403	14752	13547	11565	9046	6376	4166
-7.5°	12239	13520	14204	14347	14204	13520	12239	10294	7905	5611	3585
-10°	10353	11667	12375	12542	12375	11667	10353	8536	6565	4559	2813
-12.5°	8086	9245	9909	9967	9909	9245	8086	6640	5036	3398	2102
-15°	5902	6750	7228	7197	7228	6750	5902	4768	3518	2373	1430
-17.5°	3873	4469	4796	4901	4796	4469	3873	3063	2268	1482	990
-20°	2264	2654	2904	2931	2904	2654	2264	1713	1327	912	704



REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1260	1463	1594	1592	1594	1463	1260	997	788	641	529
-25°	751	828	874	883	874	828	751	652	554	496	437
-27.5°	521	551	571	571	571	551	521	485	440	412	379
-30°	416	430	443	439	443	430	416	398	376	358	339
-32.5°	357	364	370	370	370	364	357	346	334	322	311
-35°	318	323	327	326	327	323	318	312	305	297	291
-37.5°	294	297	300	300	300	297	294	291	287	282	279
-40°	280	282	284	285	284	282	280	278	275	272	270
-42.5°	271	273	275	276	275	273	271	269	267	265	263
-45°	263	265	267	268	267	265	263	261	259	257	255
-47.5°	254	256	258	258	258	256	254	251	248	246	243
-50°	241	243	245	245	245	243	241	237	235	232	230
-52.5°	223	225	226	227	226	225	223	220	217	215	212
-55°	204	206	207	208	207	206	204	201	198	196	194
-57.5°	182	184	185	186	185	184	182	180	178	176	174
-60°	162	163	164	163	164	163	162	160	158	157	155
-62.5°	142	143	144	144	144	143	142	141	139	139	138
-65°	124	124	125	124	125	124	124	123	122	121	121
-67.5°	107	107	107	107	107	107	107	106	105	104	103
-70°	88	89	88	88	88	89	88	88	87	87	86
-72.5°	70	71	71	70	71	71	70	70	70	69	68
-75°	53	53	53	52	53	53	53	52	52	51	51
-77.5°	33	33	33	32	33	33	33	33	33	33	33
-80°	19	19	19	19	19	19	19	19	19	18	18
-82.5°	9	9	9	8	9	9	9	8	8	8	8
-85°	4	4	4	4	4	4	4	4	4	4	4
-87.5°	3	3	3	3	3	3	3	3	3	3	3
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731754

CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**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°	0	0	0	0	0	0	1	1	1	1	1
62.5°	2	1	1	1	1	1	1	2	2	1	2
60°	5	4	5	5	4	4	5	5	4	5	5
57.5°	11	11	12	12	10	11	11	11	10	11	10
55°	28	27	25	24	22	22	21	20	19	19	18
52.5°	44	45	44	39	38	38	35	32	31	31	29
50°	69	68	67	64	60	57	55	49	47	45	43
47.5°	98	95	93	89	85	81	77	73	66	61	58
45°	122	119	116	112	108	102	97	93	86	78	73
42.5°	144	140	135	135	131	124	117	114	108	97	90
40°	169	166	161	158	155	149	141	136	130	120	108
37.5°	194	191	187	184	180	173	165	157	152	141	129
35°	218	213	208	204	201	193	185	177	170	159	147
32.5°	240	233	226	221	215	209	201	195	186	175	163
30°	267	255	245	236	230	223	215	209	201	192	177
27.5°	305	284	268	255	246	237	229	223	216	206	193
25°	354	324	297	279	264	252	243	236	229	219	207
22.5°	416	371	333	304	284	267	256	248	241	230	218
20°	501	423	373	334	303	283	268	258	249	240	229
17.5°	640	493	411	361	325	299	279	265	256	248	239
15°	818	592	464	391	345	311	287	271	262	254	245
12.5°	1128	716	512	416	361	323	296	278	267	258	249
10°	1462	887	594	453	380	334	304	283	271	261	253
7.5°	1921	1093	674	484	395	343	310	288	274	265	256
5°	2261	1247	738	511	406	349	313	291	277	267	258
2.5°	2478	1345	782	531	416	355	317	294	279	270	261
0°	2586	1409	800	534	419	357	318	295	281	272	264
-2.5°	2549	1383	782	536	420	355	318	295	281	272	264
-5°	2399	1292	751	519	410	351	316	293	280	272	264
-7.5°	2070	1147	694	492	399	346	312	292	279	271	263
-10°	1600	945	616	462	384	338	307	289	277	270	262
-12.5°	1242	763	530	424	366	327	301	285	275	268	260
-15°	891	629	481	400	351	317	295	281	273	267	258
-17.5°	697	521	425	371	334	307	289	278	271	265	256
-20°	540	447	390	349	318	297	284	275	269	262	253



REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	452	399	358	327	305	289	279	272	267	259	250
-25°	396	360	332	310	294	282	275	270	263	256	246
-27.5°	353	329	312	296	285	278	272	267	260	251	241
-30°	322	307	296	286	279	273	268	262	255	246	235
-32.5°	300	292	284	279	274	270	264	257	250	239	227
-35°	285	281	276	273	270	264	258	251	242	232	219
-37.5°	276	272	270	267	263	258	251	244	235	223	210
-40°	268	266	263	260	256	251	243	236	225	213	200
-42.5°	261	258	255	251	246	241	234	224	214	202	190
-45°	251	249	246	241	235	229	222	212	201	190	179
-47.5°	240	236	232	227	221	215	207	199	188	178	167
-50°	226	222	217	212	206	199	192	184	175	165	155
-52.5°	209	205	200	196	190	183	177	169	160	152	144
-55°	190	187	183	178	172	167	161	154	146	139	131
-57.5°	172	169	165	161	156	151	145	139	132	126	119
-60°	154	151	148	144	140	136	130	124	119	113	106
-62.5°	136	134	131	128	124	120	115	110	105	100	94
-65°	119	118	115	112	108	104	100	96	91	86	82
-67.5°	102	101	98	96	92	89	85	81	78	74	70
-70°	85	83	81	79	76	73	71	67	64	61	58
-72.5°	67	66	65	63	61	59	56	54	51	48	45
-75°	50	49	48	47	45	44	42	40	38	35	33
-77.5°	32	32	31	30	29	28	27	25	24	23	21
-80°	18	17	17	17	16	16	15	14	13	12	11
-82.5°	8	8	8	8	8	8	7	7	6	6	5
-85°	4	4	4	4	4	4	4	4	3	3	3
-87.5°	3	3	3	3	2	2	2	2	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**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	1	1	1	1
67.5°	0	0	0	1	1	1	0	1	1	1	1
65°	1	1	0	1	1	1	1	1	1	1	1
62.5°	2	1	1	2	2	1	1	2	2	1	1
60°	4	4	4	4	4	2	3	3	3	2	2
57.5°	9	7	9	8	7	5	5	5	5	3	2
55°	16	15	15	14	12	9	8	8	6	5	3
52.5°	26	24	23	21	19	15	14	11	10	7	6
50°	38	35	33	30	27	23	20	16	13	9	8
47.5°	54	49	44	40	36	32	27	22	17	12	10
45°	69	64	57	50	45	41	36	29	22	17	13
42.5°	85	80	72	61	56	50	45	37	28	21	16
40°	101	94	87	76	66	59	53	45	34	26	20
37.5°	118	109	101	90	77	69	61	53	41	31	24
35°	135	125	114	102	89	78	70	61	48	37	27
32.5°	150	140	127	114	101	88	78	67	55	42	31
30°	164	152	139	125	112	98	86	74	61	47	35
27.5°	178	165	151	136	122	107	92	80	67	52	39
25°	191	177	162	147	131	114	98	86	72	58	44
22.5°	204	189	173	157	139	121	105	91	77	62	48
20°	215	200	183	164	145	128	111	96	82	67	52
17.5°	225	209	190	171	151	134	117	101	86	71	55
15°	231	215	197	177	157	139	122	106	91	75	58
12.5°	237	221	203	182	162	143	126	110	94	78	61
10°	241	226	208	187	166	147	130	113	97	80	63
7.5°	245	231	212	191	170	150	133	116	99	82	65
5°	248	235	216	195	173	153	136	118	102	84	67
2.5°	251	238	220	199	176	156	138	120	103	85	68
0°	253	239	222	202	178	157	139	121	103	86	69
-2.5°	254	240	223	202	179	159	140	122	104	87	70
-5°	254	240	222	202	180	159	140	123	105	88	71
-7.5°	253	239	221	201	180	159	140	123	105	87	70
-10°	251	237	220	200	179	158	139	123	105	87	70
-12.5°	249	235	218	197	177	157	139	122	104	86	70
-15°	246	233	215	195	175	155	138	121	103	86	69
-17.5°	244	230	211	191	172	153	136	119	102	85	69
-20°	241	226	207	187	168	151	134	118	100	83	68



REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	237	221	203	183	164	148	132	116	98	82	67
-25°	233	216	198	179	161	145	130	113	96	80	65
-27.5°	227	210	192	174	157	142	127	110	94	78	64
-30°	220	204	187	169	153	139	123	107	91	76	62
-32.5°	213	197	180	164	149	135	119	104	88	73	60
-35°	205	190	175	159	144	130	115	100	85	71	57
-37.5°	197	182	167	153	139	125	111	96	82	68	55
-40°	187	173	160	147	134	120	106	92	78	65	53
-42.5°	177	164	152	140	128	115	102	87	74	62	50
-45°	167	155	144	133	122	109	95	82	70	58	47
-47.5°	157	146	135	125	115	102	89	77	65	55	44
-50°	146	136	127	117	107	95	83	71	61	51	40
-52.5°	135	126	117	108	98	88	76	66	56	47	36
-55°	124	116	107	98	89	80	70	60	51	42	33
-57.5°	112	105	97	89	81	72	63	55	46	37	29
-60°	100	94	87	80	72	64	57	49	41	33	25
-62.5°	89	83	77	70	63	57	50	43	35	28	21
-65°	77	72	67	61	55	49	43	36	30	23	17
-67.5°	66	62	57	52	47	41	36	30	24	18	14
-70°	54	51	47	42	37	33	28	23	18	14	11
-72.5°	43	39	36	32	28	24	20	16	13	10	7
-75°	30	28	25	22	19	16	14	11	9	6	5
-77.5°	19	17	15	14	12	11	9	7	5	5	4
-80°	11	10	9	8	7	5	5	4	4	3	2
-82.5°	5	5	4	4	4	4	3	3	2	2	1
-85°	3	3	3	3	2	2	2	1	1	1	1
-87.5°	2	1	1	1	1	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731754  
 CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**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	1	0	0	0	0
70°	1	1	1	0	0	0	0
67.5°	1	1	1	1	0	0	0
65°	1	1	1	1	0	0	0
62.5°	1	1	1	1	0	0	0
60°	2	2	1	1	0	0	0
57.5°	3	2	1	1	1	0	0
55°	4	3	2	1	1	0	0
52.5°	5	3	2	1	1	0	0
50°	6	5	3	1	1	0	0
47.5°	7	6	4	1	1	0	0
45°	10	7	4	2	1	0	0
42.5°	12	8	5	2	1	0	0
40°	15	9	6	3	1	0	0
37.5°	17	11	6	3	1	0	0
35°	20	13	7	4	1	0	0
32.5°	23	15	9	4	1	0	0
30°	26	17	10	5	2	1	0
27.5°	29	19	11	5	2	1	0
25°	32	21	12	6	2	1	0
22.5°	35	23	13	6	2	1	0
20°	37	25	14	6	2	1	0
17.5°	40	27	15	7	2	1	0
15°	43	29	16	7	2	1	0
12.5°	45	31	17	8	2	1	0
10°	47	33	18	8	3	1	0
7.5°	49	34	19	8	3	1	0
5°	51	36	20	9	3	1	0
2.5°	53	37	21	9	3	1	0
0°	54	38	21	9	3	1	0
-2.5°	55	39	22	9	3	1	0
-5°	55	40	22	10	3	1	0
-7.5°	55	40	23	10	3	1	0
-10°	55	40	22	10	3	1	0
-12.5°	55	40	22	10	3	1	0
-15°	55	40	22	10	3	1	0
-17.5°	55	39	22	10	3	1	0
-20°	54	39	22	10	3	1	0



REPORT NUMBER: P731754

CATALOG NUMBER: NHRS50U33BZ750-VS\_25

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	53	38	21	10	3	1	0
-25°	52	37	21	9	3	1	0
-27.5°	50	35	20	9	3	1	0
-30°	49	33	19	9	3	1	0
-32.5°	47	32	18	8	3	1	0
-35°	45	30	17	8	3	1	0
-37.5°	42	28	16	7	3	1	0
-40°	40	26	14	7	2	1	0
-42.5°	37	24	13	6	2	1	0
-45°	34	22	12	6	2	1	0
-47.5°	31	20	11	5	2	1	0
-50°	28	18	10	4	2	1	0
-52.5°	26	16	9	4	2	1	0
-55°	23	14	8	4	1	1	0
-57.5°	20	12	6	3	1	1	0
-60°	17	11	5	3	1	0	0
-62.5°	15	9	5	2	1	0	0
-65°	12	7	4	2	1	0	0
-67.5°	9	5	3	2	1	0	0
-70°	7	5	3	1	1	0	0
-72.5°	5	4	2	1	1	0	0
-75°	4	3	1	1	1	0	0
-77.5°	3	2	1	1	1	0	0
-80°	2	1	1	1	0	0	0
-82.5°	1	1	1	1	0	0	0
-85°	1	1	1	0	0	0	0
-87.5°	1	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)