

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: P731738

Luminaire Tested: **NHRS50U33BZ730-VS\_25**

Issue Date: 09/15/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P731738  
Test Lab: INNOVATION CENTER  
Issue Date: 09/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NHRS50U33BZ730-VS\_25  
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 3 AT 3000K WITH VISOR @ 25% output  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	4131.1 lumens	Max Intensity:	16147.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	111.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.46' x H: 0')		

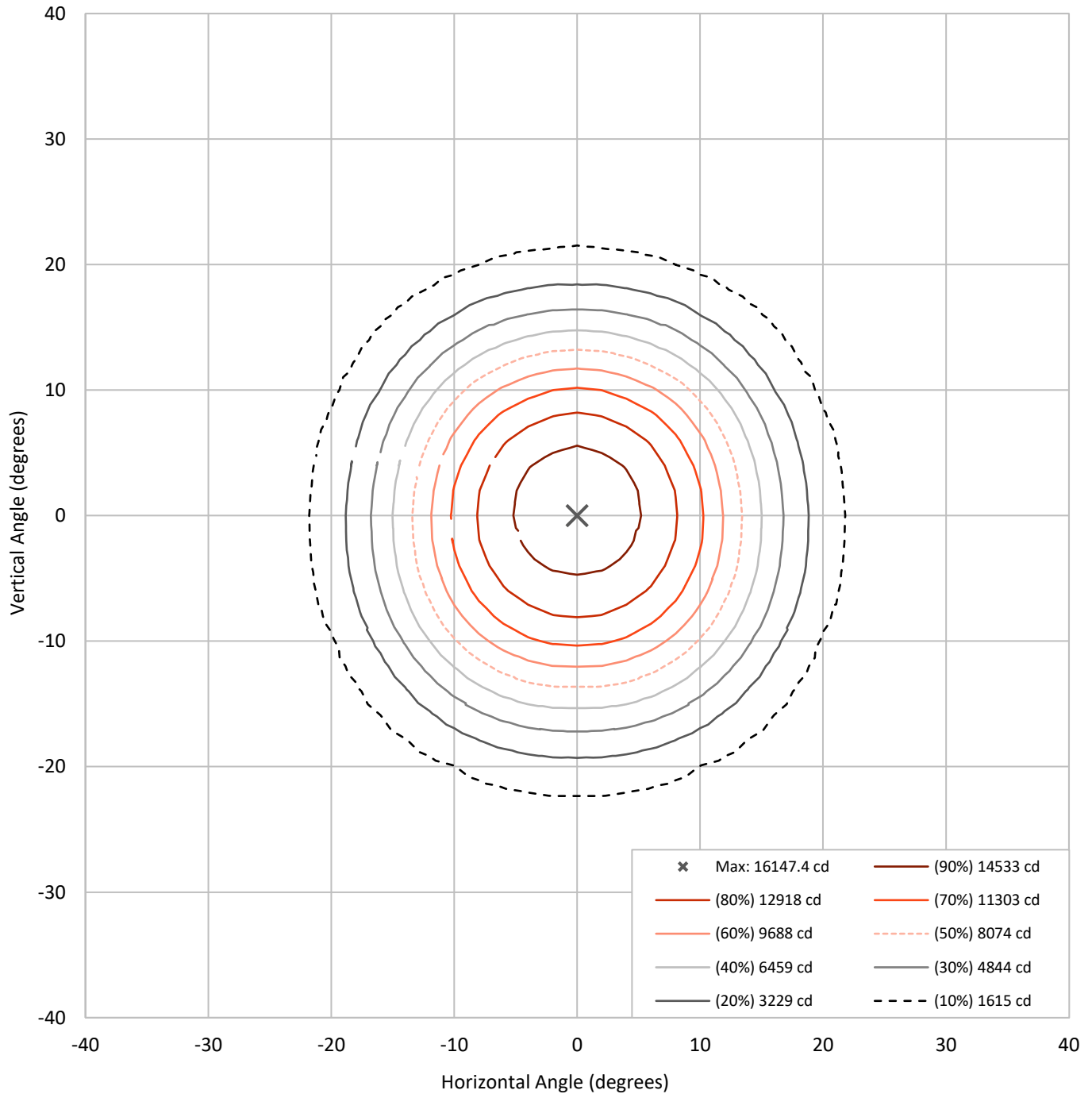
Beam Angle (50%):	26.8°H x 26.9°V	Field Angle (10%):	43.6°H x 43.7°V
Beam Lumens:	2009.1 lumens	Field Lumens:	3252.8 lumens
Beam Efficiency:	48.6%	Field Efficiency:	78.7%

Input Watts (W): 37.2  
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: P731738  
CATALOG NUMBER: NHR50U33BZ730-VS\_25

### Iso-Candela Plot





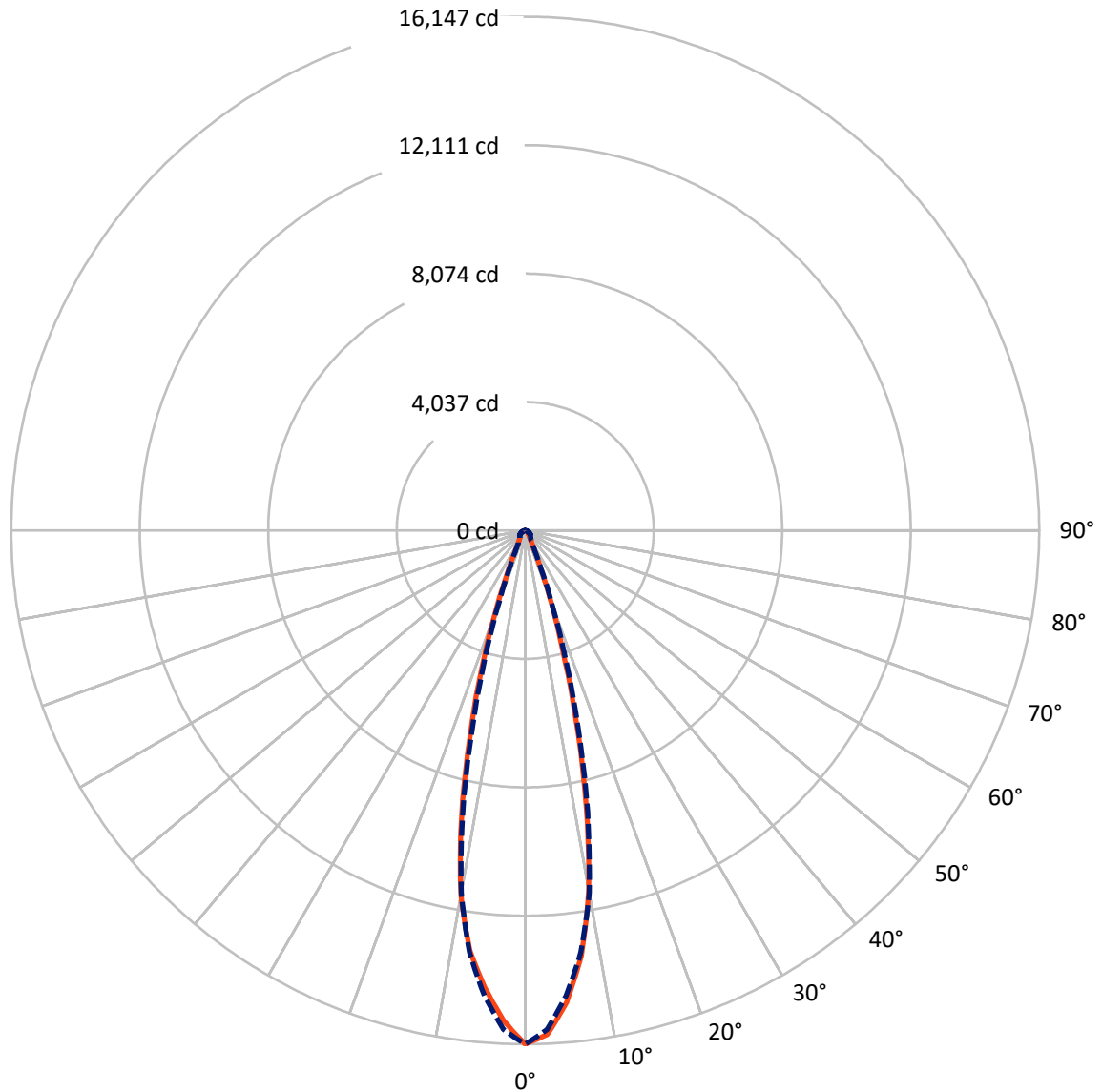
REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-VS\_25

### Lumen Table

90	0.0																		
80	0.0																		
70	0.0																		
60	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	0.0			
50	0.0	0.1	0.2	0.4	0.6	0.7	0.9	0.9	0.9	0.9	0.7	0.6	0.4	0.2	0.1	0.0			
40	0.3	0.4	0.8	1.5	2.3	2.9	3.4	3.7	3.7	3.4	2.9	2.3	1.5	0.8	0.4	0.3			
30	0.3	0.7	1.7	2.9	4.2	5.3	6.3	7.1	7.1	6.3	5.3	4.2	2.9	1.7	0.7	0.3			
20	0.6	1.0	2.4	4.1	5.7	7.9	13.4	23.7	23.7	13.4	7.9	5.7	4.1	2.4	1.0	0.6			
10	0.6	1.3	2.9	4.8	6.8	13.4	64.8	169.6	169.6	64.8	13.4	6.8	4.8	2.9	1.3	0.6			
0	0.9	1.4	3.2	5.1	7.5	24.1	169.5	393.5	393.5	169.5	24.1	7.5	5.1	3.2	1.4	0.9			
-10	0.9	1.5	3.3	5.2	7.5	24.8	174.8	393.3	393.3	174.8	24.8	7.5	5.2	3.3	1.5	0.9			
-20	0.9	1.5	3.2	5.1	7.0	14.2	73.3	186.6	186.6	73.3	14.2	7.0	5.1	3.2	1.5	0.9			
-30	0.9	1.4	2.9	4.9	6.4	8.8	15.5	29.8	29.8	15.5	8.8	6.4	4.9	2.9	1.4	0.9			
-40	0.6	1.2	2.6	4.4	5.9	7.1	8.3	9.4	9.4	8.3	7.1	5.9	4.4	2.6	1.2	0.6			
-50	0.6	1.0	2.2	3.6	5.1	6.2	7.0	7.4	7.4	7.0	6.2	5.1	3.6	2.2	1.0	0.6			
-60	0.3	0.7	1.6	2.6	3.7	4.7	5.3	5.7	5.7	5.3	4.7	3.7	2.6	1.6	0.7	0.3			
-70	0.3	0.4	1.0	1.6	2.3	2.9	3.3	3.5	3.5	3.3	2.9	2.3	1.6	1.0	0.4	0.3			
-80	0.0	0.6		1.8		2.9		3.3		2.9		1.8		0.6		0.0			
-90	0.0																		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

REPORT NUMBER: P731738  
CATALOG NUMBER: NHRS50U33BZ730-VS\_25

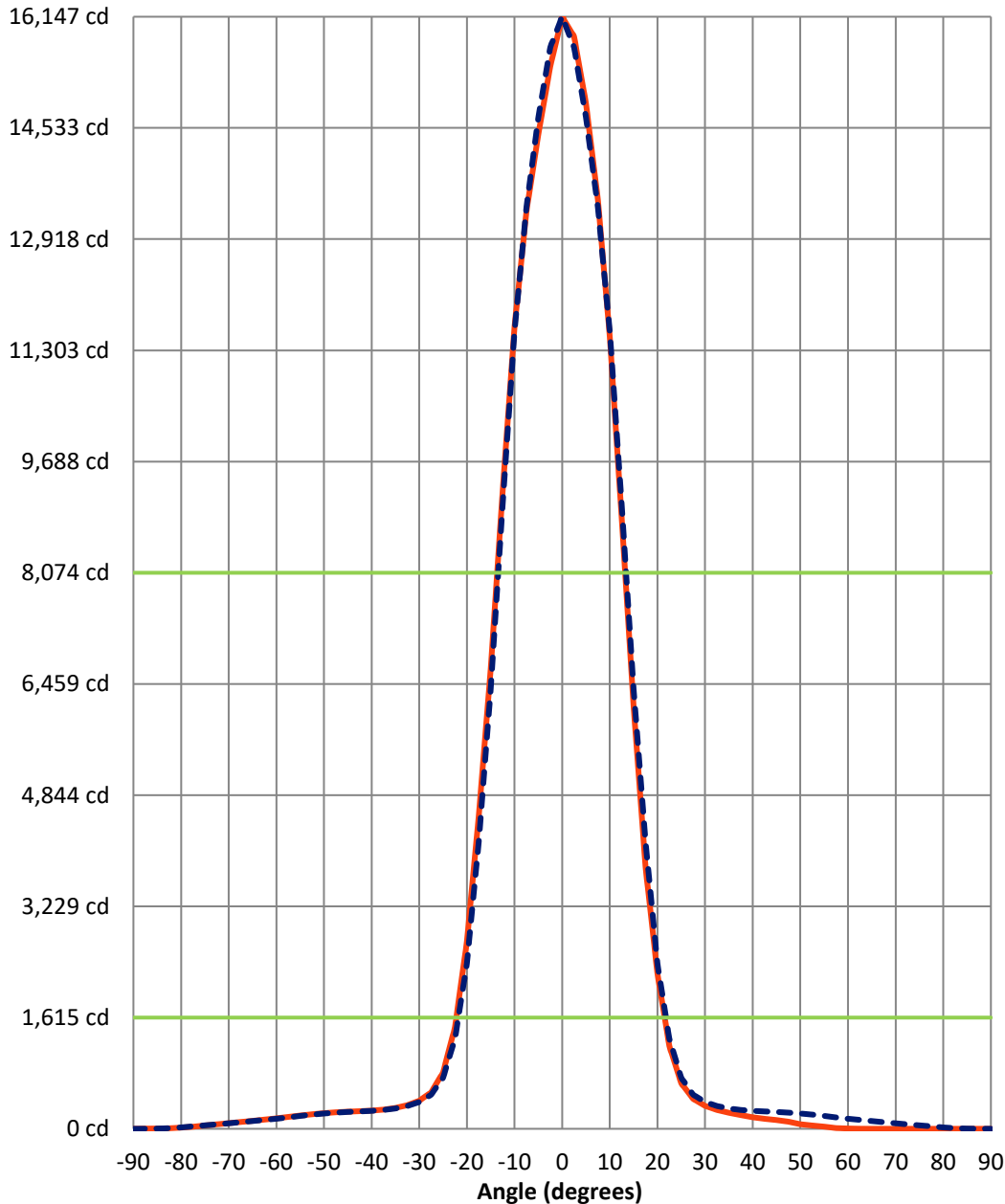
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P731738  
CATALOG NUMBER: NHRS50U33BZ730-VS\_25

### Luminous Intensity Plot



**Beam:**  
H Angle: 26.8°  
V Angle: 26.9°  
Lumens: 2009.1  
Efficiency: 48.6%

**Field:**  
H Angle: 43.6°  
V Angle: 43.7°  
Lumens: 3252.8  
Efficiency: 78.7%

**Spill:**  
Lumens: 878.3  
Efficiency: 21.3%

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



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-VS\_25

FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	1	0	0	0	0	0
70°	0	0	0	0	1	1	0	1	1	1	1
67.5°	0	0	0	0	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	2	2	3	4	5
55°	0	0	1	1	2	3	3	3	5	6	7
52.5°	0	0	1	1	2	3	4	5	6	9	11
50°	0	0	1	1	3	4	6	7	8	12	15
47.5°	0	0	1	1	3	5	7	9	11	16	21
45°	0	0	1	2	4	6	9	12	16	21	27
42.5°	0	0	1	2	4	7	11	15	19	26	34
40°	0	0	1	2	5	9	14	18	24	32	41
37.5°	0	0	1	3	6	10	16	22	29	38	49
35°	0	0	1	3	7	12	18	25	34	44	56
32.5°	0	0	1	4	8	14	21	29	39	51	62
30°	0	1	2	4	9	16	24	32	44	57	68
27.5°	0	1	2	5	10	17	27	37	49	62	74
25°	0	1	2	5	11	20	30	40	53	67	79
22.5°	0	1	2	6	12	21	32	44	58	72	84
20°	0	1	2	6	13	23	35	48	62	76	89
17.5°	0	1	2	6	14	25	37	51	66	80	94
15°	0	1	2	7	15	27	39	54	70	84	98
12.5°	0	1	2	7	16	29	42	57	73	88	102
10°	0	1	3	7	17	31	44	59	74	90	105
7.5°	0	1	3	8	18	32	45	61	76	92	108
5°	0	1	3	8	19	34	47	62	78	94	109
2.5°	0	1	3	8	19	35	49	63	79	95	111
0°	0	1	3	9	20	36	50	64	80	96	113
-2.5°	0	1	3	9	20	37	51	65	81	97	113
-5°	0	1	3	9	21	37	51	65	81	98	114
-7.5°	0	1	3	9	21	37	51	65	81	97	114
-10°	0	1	3	9	21	37	51	65	81	97	114
-12.5°	0	1	3	9	21	37	51	65	80	97	113
-15°	0	1	3	9	21	37	51	64	79	96	112
-17.5°	0	1	3	9	21	37	51	64	78	95	111
-20°	0	1	3	9	20	36	50	63	77	93	109



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-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	9	20	35	49	62	76	91	107
-25°	0	1	3	9	19	34	48	61	74	89	105
-27.5°	0	1	3	8	19	33	47	59	72	87	103
-30°	0	1	3	8	18	31	46	57	70	85	100
-32.5°	0	1	3	8	17	29	44	55	68	82	96
-35°	0	1	3	7	16	28	42	53	66	79	93
-37.5°	0	1	3	7	15	26	40	51	63	76	89
-40°	0	1	2	6	13	24	37	49	60	73	85
-42.5°	0	1	2	6	12	22	34	47	57	69	81
-45°	0	1	2	5	11	21	32	44	54	65	76
-47.5°	0	1	2	5	11	19	29	41	51	61	71
-50°	0	1	2	4	10	17	27	37	47	56	66
-52.5°	0	1	1	4	8	15	24	34	43	52	62
-55°	0	1	1	4	7	13	21	31	39	48	56
-57.5°	0	1	1	3	6	11	18	27	35	43	51
-60°	0	0	1	3	5	10	16	23	30	38	45
-62.5°	0	0	1	2	4	8	13	20	26	33	40
-65°	0	0	1	2	4	6	11	16	21	27	34
-67.5°	0	0	1	1	3	5	9	13	17	22	28
-70°	0	0	1	1	2	4	6	10	13	16	21
-72.5°	0	0	1	1	2	3	5	7	10	12	15
-75°	0	0	1	1	1	2	4	5	6	8	11
-77.5°	0	0	1	1	1	1	3	4	4	5	6
-80°	0	0	0	1	1	1	1	2	3	3	4
-82.5°	0	0	0	1	1	1	1	1	1	2	2
-85°	0	0	0	0	1	1	1	1	1	1	1
-87.5°	0	0	0	0	0	0	0	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-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	1	2	1	1	2	2	1	1	2
60°	2	2	3	4	3	4	4	5	4	4	5
57.5°	4	5	7	8	8	7	9	9	10	10	10
55°	7	9	11	13	14	13	15	17	18	18	18
52.5°	13	14	18	20	21	22	24	27	29	29	30
50°	18	22	25	28	30	33	36	40	42	43	46
47.5°	25	30	33	37	41	45	50	54	56	61	68
45°	33	38	42	47	53	60	65	68	73	79	86
42.5°	42	47	52	57	67	74	79	83	90	100	106
40°	49	55	61	71	81	88	94	100	112	120	126
37.5°	57	64	72	83	94	102	110	119	131	141	146
35°	65	73	83	95	106	116	125	136	147	158	165
32.5°	73	81	94	106	118	130	140	151	163	173	180
30°	79	90	103	116	129	141	153	165	178	187	194
27.5°	86	99	113	126	140	153	165	179	191	200	207
25°	92	106	122	136	151	164	177	192	204	212	219
22.5°	97	113	129	146	161	175	189	203	214	224	231
20°	103	118	135	153	170	185	199	212	222	231	240
17.5°	108	124	140	159	176	194	209	222	230	238	246
15°	113	129	146	164	183	200	215	228	236	243	252
12.5°	117	133	150	169	188	205	220	231	240	248	258
10°	121	136	154	174	193	210	224	235	243	251	263
7.5°	124	139	158	178	197	215	228	237	246	254	267
5°	126	142	161	181	201	218	230	240	248	257	270
2.5°	128	144	164	185	204	221	233	243	250	259	273
0°	129	146	165	187	206	222	235	245	252	261	274
-2.5°	130	147	166	188	207	223	236	245	253	261	274
-5°	130	148	167	187	206	222	236	245	252	260	272
-7.5°	130	148	167	187	205	221	235	244	251	259	271
-10°	129	147	166	185	204	220	233	243	250	257	268
-12.5°	129	146	164	183	202	218	231	241	249	255	265
-15°	128	144	162	181	199	216	229	239	247	253	261
-17.5°	126	142	159	178	196	213	226	238	246	251	258
-20°	125	140	156	174	192	210	224	235	243	250	256



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-VS\_25

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	123	137	153	170	188	205	220	232	241	247	253
-25°	121	135	149	166	184	200	216	228	237	245	250
-27.5°	118	132	146	162	179	195	210	223	233	241	247
-30°	114	129	142	157	173	189	205	218	229	237	243
-32.5°	111	125	138	152	168	183	198	211	222	231	239
-35°	107	121	134	147	162	176	190	203	215	225	233
-37.5°	103	116	129	142	155	169	183	195	207	218	226
-40°	98	112	124	136	148	161	174	186	198	208	219
-42.5°	94	106	119	130	141	153	164	176	188	198	208
-45°	88	101	113	124	134	144	155	166	177	187	196
-47.5°	83	95	107	116	126	135	145	155	165	175	184
-50°	77	88	99	108	118	127	136	144	153	162	171
-52.5°	71	81	91	100	109	117	126	133	141	149	157
-55°	65	74	83	92	100	107	115	122	129	136	143
-57.5°	59	67	75	83	90	97	104	110	117	123	129
-60°	52	60	67	74	81	87	93	99	104	110	116
-62.5°	46	53	59	65	72	77	82	87	93	97	102
-65°	40	46	52	57	63	67	72	76	80	84	89
-67.5°	33	38	43	49	53	57	61	65	68	72	75
-70°	26	30	35	39	44	47	51	54	57	60	63
-72.5°	19	23	26	30	33	37	40	42	45	47	50
-75°	13	15	18	21	23	26	28	31	33	35	37
-77.5°	8	10	11	13	14	16	18	20	21	22	23
-80°	4	5	6	8	9	9	10	11	11	12	13
-82.5°	3	3	4	4	4	4	5	5	6	6	6
-85°	1	2	2	2	3	3	3	3	3	3	3
-87.5°	1	1	1	1	1	1	1	1	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-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	1	2	1	1	1
60°	5	4	4	5	5	4	5	5	5	4	5
57.5°	11	10	10	11	11	10	11	12	13	13	13
55°	19	21	21	22	23	25	26	27	28	28	29
52.5°	33	35	35	37	41	42	41	44	45	45	46
50°	51	53	56	59	62	63	64	66	67	67	68
47.5°	71	75	79	83	86	88	91	94	94	95	97
45°	90	94	100	104	108	111	113	116	118	120	121
42.5°	109	115	122	125	125	130	134	136	139	140	140
40°	131	138	144	147	150	154	157	157	159	162	163
37.5°	153	161	167	170	174	178	180	183	186	189	191
35°	172	179	186	189	193	198	202	207	211	216	221
32.5°	187	194	200	205	209	216	222	231	238	246	255
30°	200	207	214	219	227	237	248	261	275	287	302
27.5°	213	220	228	237	249	263	283	302	326	343	373
25°	226	234	245	259	276	301	329	358	401	439	504
22.5°	238	248	263	282	309	344	386	444	529	633	769
20°	249	262	282	310	346	393	466	589	745	1017	1291
17.5°	259	277	301	335	382	457	594	812	1160	1717	2306
15°	267	288	320	363	430	550	759	1163	1888	2782	3826
12.5°	275	300	335	386	476	665	1047	1730	2785	4194	5606
10°	282	310	353	420	551	823	1357	2350	3866	5699	7469
7.5°	287	319	366	449	625	1014	1784	3097	4922	7035	9201
5°	291	324	377	474	685	1158	2099	3673	5744	8142	10602
2.5°	294	330	386	493	726	1248	2300	4019	6217	8806	11340
0°	295	331	389	496	742	1308	2400	4175	6384	9056	11573
-2.5°	295	330	389	498	726	1284	2366	4123	6272	8967	11435
-5°	293	326	381	481	697	1199	2227	3867	5918	8396	10735
-7.5°	290	321	370	457	644	1065	1921	3328	5208	7337	9555
-10°	285	313	357	429	572	877	1485	2610	4232	6093	7924
-12.5°	280	304	340	393	492	709	1153	1951	3154	4674	6163
-15°	273	294	325	371	446	584	827	1327	2202	3266	4426
-17.5°	269	285	310	345	394	484	647	919	1376	2105	2843
-20°	263	276	296	324	362	415	501	654	847	1231	1590



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-VS\_25

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	259	269	283	303	332	371	420	491	595	732	925
-25°	256	262	272	288	308	334	368	406	460	514	605
-27.5°	252	258	264	275	290	305	328	352	382	408	450
-30°	249	254	259	265	274	285	298	315	332	349	369
-32.5°	245	250	255	259	263	271	278	289	299	310	321
-35°	240	246	251	253	256	260	265	270	276	283	290
-37.5°	234	240	245	248	251	253	256	259	261	266	270
-40°	226	233	237	241	244	247	249	251	253	256	258
-42.5°	217	223	229	233	237	240	242	244	246	248	249
-45°	206	212	218	223	228	231	234	237	238	240	242
-47.5°	192	200	205	211	216	220	223	226	228	231	233
-50°	178	185	191	197	201	206	210	213	215	218	221
-52.5°	164	170	176	182	186	190	194	197	200	202	205
-55°	149	155	160	165	170	174	177	180	182	184	187
-57.5°	135	140	145	149	153	157	159	162	164	165	168
-60°	121	126	130	134	137	140	143	144	146	147	149
-62.5°	107	111	115	119	122	124	126	128	129	130	131
-65°	93	97	101	104	107	109	111	112	113	113	114
-67.5°	79	83	86	89	92	94	95	96	97	98	98
-70°	65	68	71	73	75	77	79	80	80	81	82
-72.5°	52	54	56	58	60	62	62	63	64	65	65
-75°	39	41	42	43	45	46	47	47	48	48	49
-77.5°	24	26	27	28	29	30	30	31	31	31	31
-80°	14	15	15	16	16	16	17	17	17	17	17
-82.5°	7	7	7	7	7	7	8	8	7	8	8
-85°	3	4	4	4	4	4	4	4	4	4	4
-87.5°	2	2	2	2	3	3	3	3	3	3	3
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-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	1	2
60°	5	5	5	4	5	5	5	5	4	5	5
57.5°	12	11	11	11	11	11	12	13	13	13	12
55°	30	31	32	31	32	31	30	29	28	28	27
52.5°	46	47	47	48	47	47	46	46	45	45	44
50°	67	66	66	66	66	66	67	68	67	67	66
47.5°	100	102	104	103	104	102	100	97	95	94	94
45°	123	124	126	127	126	124	123	121	120	118	116
42.5°	142	143	144	145	144	143	142	140	140	139	136
40°	165	166	167	167	167	166	165	163	162	159	157
37.5°	194	196	198	199	198	196	194	191	189	186	183
35°	225	229	232	233	232	229	225	221	216	211	207
32.5°	262	268	273	274	273	268	262	255	246	238	231
30°	312	321	328	333	328	321	312	302	287	275	261
27.5°	395	415	428	435	428	415	395	373	343	326	302
25°	563	607	633	661	633	607	563	504	439	401	358
22.5°	930	1046	1116	1204	1116	1046	930	769	633	529	444
20°	1693	1977	2116	2255	2116	1977	1693	1291	1017	745	589
17.5°	3017	3478	3841	3806	3841	3478	3017	2306	1717	1160	812
15°	4821	5531	5979	6134	5979	5531	4821	3826	2782	1888	1163
12.5°	6898	7979	8714	8864	8714	7979	6898	5606	4194	2785	1730
10°	9217	10433	11244	11497	11244	10433	9217	7469	5699	3866	2350
7.5°	11175	12477	13191	13487	13191	12477	11175	9201	7035	4922	3097
5°	12474	13845	14540	14887	14540	13845	12474	10602	8142	5744	3673
2.5°	13227	14531	15499	15858	15499	14531	13227	11340	8806	6217	4019
0°	13378	14684	15700	16147	15700	14684	13378	11573	9056	6384	4175
-2.5°	13216	14369	15192	15424	15192	14369	13216	11435	8967	6272	4123
-5°	12574	13693	14297	14440	14297	13693	12574	10735	8396	5918	3867
-7.5°	11360	12550	13184	13317	13184	12550	11360	9555	7337	5208	3328
-10°	9610	10830	11486	11641	11486	10830	9610	7924	6093	4232	2610
-12.5°	7505	8582	9197	9252	9197	8582	7505	6163	4674	3154	1951
-15°	5478	6265	6709	6680	6709	6265	5478	4426	3266	2202	1327
-17.5°	3595	4148	4452	4549	4452	4148	3595	2843	2105	1376	919
-20°	2101	2463	2696	2720	2696	2463	2101	1590	1231	847	654



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-VS\_25

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1169	1358	1479	1477	1479	1358	1169	925	732	595	491
-25°	697	768	812	819	812	768	697	605	514	460	406
-27.5°	483	511	530	530	530	511	483	450	408	382	352
-30°	386	399	411	408	411	399	386	369	349	332	315
-32.5°	331	338	343	343	343	338	331	321	310	299	289
-35°	295	300	303	303	303	300	295	290	283	276	270
-37.5°	273	276	278	278	278	276	273	270	266	261	259
-40°	260	262	264	264	264	262	260	258	256	253	251
-42.5°	251	253	255	256	255	253	251	249	248	246	244
-45°	244	246	248	249	248	246	244	242	240	238	237
-47.5°	235	238	239	240	239	238	235	233	231	228	226
-50°	223	225	227	227	227	225	223	221	218	215	213
-52.5°	207	209	210	211	210	209	207	205	202	200	197
-55°	189	191	192	193	192	191	189	187	184	182	180
-57.5°	170	171	172	173	172	171	170	168	165	164	162
-60°	150	151	152	152	152	151	150	149	147	146	144
-62.5°	132	132	133	134	133	132	132	131	130	129	128
-65°	115	116	116	115	116	116	115	114	113	113	112
-67.5°	99	99	99	99	99	99	99	98	98	97	96
-70°	82	83	82	82	82	83	82	82	81	80	80
-72.5°	65	66	66	65	66	66	65	65	65	64	63
-75°	49	49	49	48	49	49	49	49	48	48	47
-77.5°	31	31	31	30	31	31	31	31	31	31	31
-80°	18	18	17	17	17	18	18	17	17	17	17
-82.5°	8	8	8	8	8	8	8	8	8	7	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: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-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°	1	1	1	1	1	1	1	2	1	1	2
60°	5	4	5	5	4	4	5	5	4	4	5
57.5°	11	10	11	11	10	10	11	10	10	10	9
55°	26	25	23	22	21	21	19	18	18	18	17
52.5°	41	42	41	37	35	35	33	30	29	29	27
50°	64	63	62	59	56	53	51	46	43	42	40
47.5°	91	88	86	83	79	75	71	68	61	56	54
45°	113	111	108	104	100	94	90	86	79	73	68
42.5°	134	130	125	125	122	115	109	106	100	90	83
40°	157	154	150	147	144	138	131	126	120	112	100
37.5°	180	178	174	170	167	161	153	146	141	131	119
35°	202	198	193	189	186	179	172	165	158	147	136
32.5°	222	216	209	205	200	194	187	180	173	163	151
30°	248	237	227	219	214	207	200	194	187	178	165
27.5°	283	263	249	237	228	220	213	207	200	191	179
25°	329	301	276	259	245	234	226	219	212	204	192
22.5°	386	344	309	282	263	248	238	231	224	214	203
20°	466	393	346	310	282	262	249	240	231	222	212
17.5°	594	457	382	335	301	277	259	246	238	230	222
15°	759	550	430	363	320	288	267	252	243	236	228
12.5°	1047	665	476	386	335	300	275	258	248	240	231
10°	1357	823	551	420	353	310	282	263	251	243	235
7.5°	1784	1014	625	449	366	319	287	267	254	246	237
5°	2099	1158	685	474	377	324	291	270	257	248	240
2.5°	2300	1248	726	493	386	330	294	273	259	250	243
0°	2400	1308	742	496	389	331	295	274	261	252	245
-2.5°	2366	1284	726	498	389	330	295	274	261	253	245
-5°	2227	1199	697	481	381	326	293	272	260	252	245
-7.5°	1921	1065	644	457	370	321	290	271	259	251	244
-10°	1485	877	572	429	357	313	285	268	257	250	243
-12.5°	1153	709	492	393	340	304	280	265	255	249	241
-15°	827	584	446	371	325	294	273	261	253	247	239
-17.5°	647	484	394	345	310	285	269	258	251	246	238
-20°	501	415	362	324	296	276	263	256	250	243	235



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-VS\_25

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	420	371	332	303	283	269	259	253	247	241	232
-25°	368	334	308	288	272	262	256	250	245	237	228
-27.5°	328	305	290	275	264	258	252	247	241	233	223
-30°	298	285	274	265	259	254	249	243	237	229	218
-32.5°	278	271	263	259	255	250	245	239	231	222	211
-35°	265	260	256	253	251	246	240	233	225	215	203
-37.5°	256	253	251	248	245	240	234	226	218	207	195
-40°	249	247	244	241	237	233	226	219	208	198	186
-42.5°	242	240	237	233	229	223	217	208	198	188	176
-45°	234	231	228	223	218	212	206	196	187	177	166
-47.5°	223	220	216	211	205	200	192	184	175	165	155
-50°	210	206	201	197	191	185	178	171	162	153	144
-52.5°	194	190	186	182	176	170	164	157	149	141	133
-55°	177	174	170	165	160	155	149	143	136	129	122
-57.5°	159	157	153	149	145	140	135	129	123	117	110
-60°	143	140	137	134	130	126	121	116	110	104	99
-62.5°	126	124	122	119	115	111	107	102	97	93	87
-65°	111	109	107	104	101	97	93	89	84	80	76
-67.5°	95	94	92	89	86	83	79	75	72	68	65
-70°	79	77	75	73	71	68	65	63	60	57	54
-72.5°	62	62	60	58	56	54	52	50	47	45	42
-75°	47	46	45	43	42	41	39	37	35	33	31
-77.5°	30	30	29	28	27	26	24	23	22	21	20
-80°	17	16	16	16	15	15	14	13	12	11	11
-82.5°	8	7	7	7	7	7	7	6	6	6	5
-85°	4	4	4	4	4	4	3	3	3	3	3
-87.5°	3	3	3	2	2	2	2	2	2	2	1
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-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	1	1	1	2	2	1	1
60°	4	4	3	4	3	2	2	3	3	2	2
57.5°	9	7	8	8	7	5	4	5	4	3	2
55°	15	13	14	13	11	9	7	7	6	5	3
52.5°	24	22	21	20	18	14	13	11	9	6	5
50°	36	33	30	28	25	22	18	15	12	8	7
47.5°	50	45	41	37	33	30	25	21	16	11	9
45°	65	60	53	47	42	38	33	27	21	16	12
42.5°	79	74	67	57	52	47	42	34	26	19	15
40°	94	88	81	71	61	55	49	41	32	24	18
37.5°	110	102	94	83	72	64	57	49	38	29	22
35°	125	116	106	95	83	73	65	56	44	34	25
32.5°	140	130	118	106	94	81	73	62	51	39	29
30°	153	141	129	116	103	90	79	68	57	44	32
27.5°	165	153	140	126	113	99	86	74	62	49	37
25°	177	164	151	136	122	106	92	79	67	53	40
22.5°	189	175	161	146	129	113	97	84	72	58	44
20°	199	185	170	153	135	118	103	89	76	62	48
17.5°	209	194	176	159	140	124	108	94	80	66	51
15°	215	200	183	164	146	129	113	98	84	70	54
12.5°	220	205	188	169	150	133	117	102	88	73	57
10°	224	210	193	174	154	136	121	105	90	74	59
7.5°	228	215	197	178	158	139	124	108	92	76	61
5°	230	218	201	181	161	142	126	109	94	78	62
2.5°	233	221	204	185	164	144	128	111	95	79	63
0°	235	222	206	187	165	146	129	113	96	80	64
-2.5°	236	223	207	188	166	147	130	113	97	81	65
-5°	236	222	206	187	167	148	130	114	98	81	65
-7.5°	235	221	205	187	167	148	130	114	97	81	65
-10°	233	220	204	185	166	147	129	114	97	81	65
-12.5°	231	218	202	183	164	146	129	113	97	80	65
-15°	229	216	199	181	162	144	128	112	96	79	64
-17.5°	226	213	196	178	159	142	126	111	95	78	64
-20°	224	210	192	174	156	140	125	109	93	77	63



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-VS\_25

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	220	205	188	170	153	137	123	107	91	76	62
-25°	216	200	184	166	149	135	121	105	89	74	61
-27.5°	210	195	179	162	146	132	118	103	87	72	59
-30°	205	189	173	157	142	129	114	100	85	70	57
-32.5°	198	183	168	152	138	125	111	96	82	68	55
-35°	190	176	162	147	134	121	107	93	79	66	53
-37.5°	183	169	155	142	129	116	103	89	76	63	51
-40°	174	161	148	136	124	112	98	85	73	60	49
-42.5°	164	153	141	130	119	106	94	81	69	57	47
-45°	155	144	134	124	113	101	88	76	65	54	44
-47.5°	145	135	126	116	107	95	83	71	61	51	41
-50°	136	127	118	108	99	88	77	66	56	47	37
-52.5°	126	117	109	100	91	81	71	62	52	43	34
-55°	115	107	100	92	83	74	65	56	48	39	31
-57.5°	104	97	90	83	75	67	59	51	43	35	27
-60°	93	87	81	74	67	60	52	45	38	30	23
-62.5°	82	77	72	65	59	53	46	40	33	26	20
-65°	72	67	63	57	52	46	40	34	27	21	16
-67.5°	61	57	53	49	43	38	33	28	22	17	13
-70°	51	47	44	39	35	30	26	21	16	13	10
-72.5°	40	37	33	30	26	23	19	15	12	10	7
-75°	28	26	23	21	18	15	13	11	8	6	5
-77.5°	18	16	14	13	11	10	8	6	5	4	4
-80°	10	9	9	8	6	5	4	4	3	3	2
-82.5°	5	4	4	4	4	3	3	2	2	1	1
-85°	3	3	3	2	2	2	1	1	1	1	1
-87.5°	1	1	1	1	1	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-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	0	0	0	0	0
70°	0	1	1	0	0	0	0
67.5°	1	1	1	0	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°	2	2	1	1	1	0	0
55°	3	3	2	1	1	0	0
52.5°	4	3	2	1	1	0	0
50°	6	4	3	1	1	0	0
47.5°	7	5	3	1	1	0	0
45°	9	6	4	2	1	0	0
42.5°	11	7	4	2	1	0	0
40°	14	9	5	2	1	0	0
37.5°	16	10	6	3	1	0	0
35°	18	12	7	3	1	0	0
32.5°	21	14	8	4	1	0	0
30°	24	16	9	4	2	1	0
27.5°	27	17	10	5	2	1	0
25°	30	20	11	5	2	1	0
22.5°	32	21	12	6	2	1	0
20°	35	23	13	6	2	1	0
17.5°	37	25	14	6	2	1	0
15°	39	27	15	7	2	1	0
12.5°	42	29	16	7	2	1	0
10°	44	31	17	7	3	1	0
7.5°	45	32	18	8	3	1	0
5°	47	34	19	8	3	1	0
2.5°	49	35	19	8	3	1	0
0°	50	36	20	9	3	1	0
-2.5°	51	37	20	9	3	1	0
-5°	51	37	21	9	3	1	0
-7.5°	51	37	21	9	3	1	0
-10°	51	37	21	9	3	1	0
-12.5°	51	37	21	9	3	1	0
-15°	51	37	21	9	3	1	0
-17.5°	51	37	21	9	3	1	0
-20°	50	36	20	9	3	1	0



REPORT NUMBER: P731738  
 CATALOG NUMBER: NHRS50U33BZ730-VS\_25

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	49	35	20	9	3	1	0
-25°	48	34	19	9	3	1	0
-27.5°	47	33	19	8	3	1	0
-30°	46	31	18	8	3	1	0
-32.5°	44	29	17	8	3	1	0
-35°	42	28	16	7	3	1	0
-37.5°	40	26	15	7	3	1	0
-40°	37	24	13	6	2	1	0
-42.5°	34	22	12	6	2	1	0
-45°	32	21	11	5	2	1	0
-47.5°	29	19	11	5	2	1	0
-50°	27	17	10	4	2	1	0
-52.5°	24	15	8	4	1	1	0
-55°	21	13	7	4	1	1	0
-57.5°	18	11	6	3	1	1	0
-60°	16	10	5	3	1	0	0
-62.5°	13	8	4	2	1	0	0
-65°	11	6	4	2	1	0	0
-67.5°	9	5	3	1	1	0	0
-70°	6	4	2	1	1	0	0
-72.5°	5	3	2	1	1	0	0
-75°	4	2	1	1	1	0	0
-77.5°	3	1	1	1	1	0	0
-80°	1	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°	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)