

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: P731746

Luminaire Tested: **NHRS50U33BZ740-VS_25**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731746
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50U33BZ740-VS_25
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 3 AT 4000K WITH VISOR @ 25% output
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	4676.2 lumens	Max Intensity:	18278.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	129.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.46' x H: 0')		

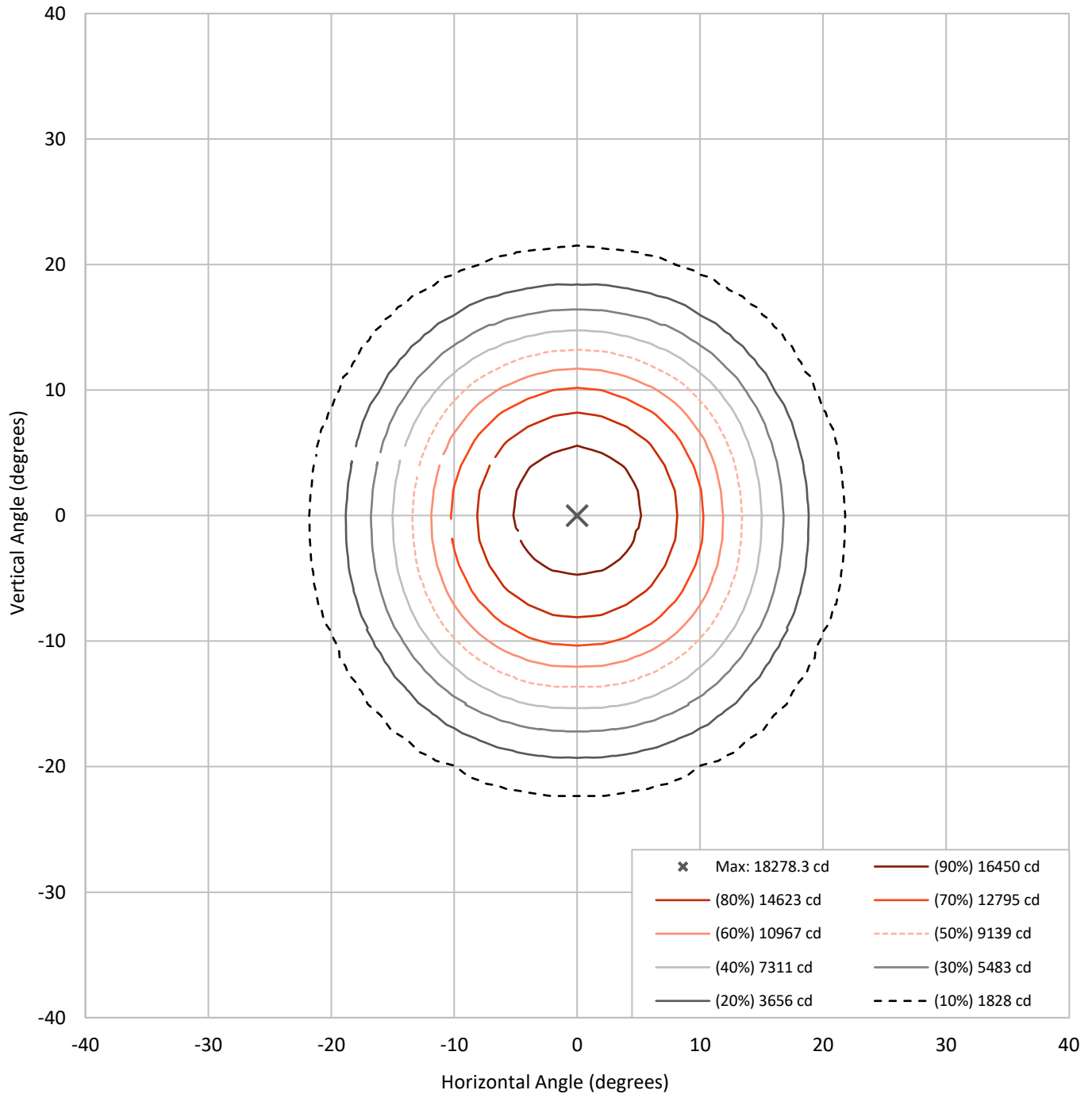
Beam Angle (50%):	26.8°H x 26.9°V	Field Angle (10%):	43.6°H x 43.7°V
Beam Lumens:	2274.2 lumens	Field Lumens:	3682 lumens
Beam Efficiency:	48.6%	Field Efficiency:	78.7%

Input Watts (W): 36.2
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





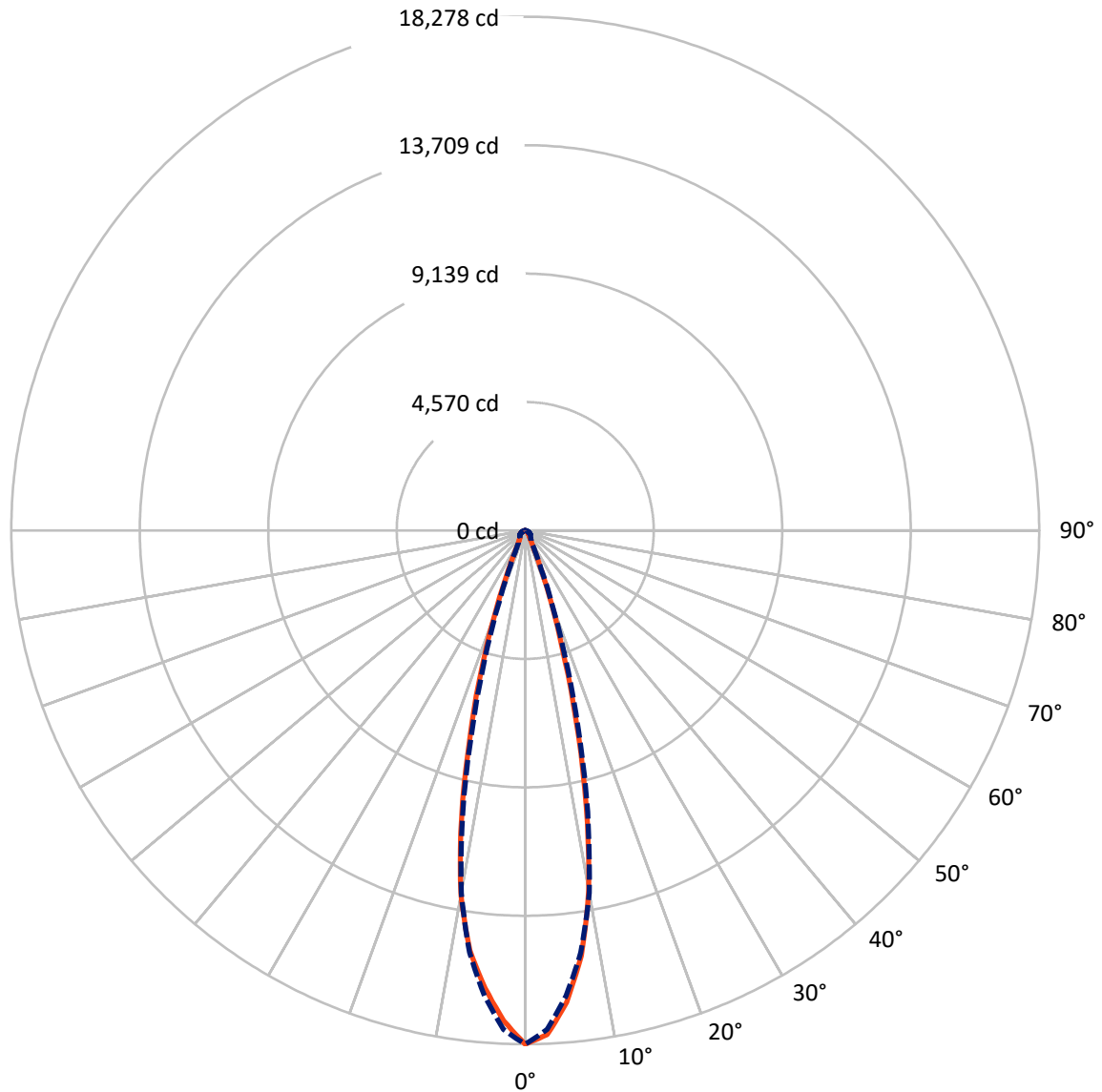
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Lumen Table

90	0.0																		
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	0.3	0.4	0.6	0.8	1.0	1.1	1.1	1.0	0.8	0.6	0.4	0.3	0.1	0.0			
40	0.3	0.4	1.0	1.7	2.6	3.3	3.8	4.2	4.2	3.8	3.3	2.6	1.7	1.0	0.4	0.3			
30	0.3	0.8	1.9	3.3	4.8	6.0	7.1	8.0	8.0	7.1	6.0	4.8	3.3	1.9	0.8	0.3			
20	0.7	1.2	2.7	4.6	6.4	8.9	15.1	26.9	26.9	15.1	8.9	6.4	4.6	2.7	1.2	0.7			
10	0.7	1.5	3.3	5.5	7.7	15.2	73.3	192.0	192.0	73.3	15.2	7.7	5.5	3.3	1.5	0.7			
0	1.0	1.6	3.6	5.8	8.5	27.3	191.8	445.4	445.4	191.8	27.3	8.5	5.8	3.6	1.6	1.0			
-10	1.0	1.7	3.7	5.9	8.5	28.1	197.8	445.2	445.2	197.8	28.1	8.5	5.9	3.7	1.7	1.0			
-20	1.0	1.7	3.6	5.8	7.9	16.0	83.0	211.2	211.2	83.0	16.0	7.9	5.8	3.6	1.7	1.0			
-30	1.0	1.5	3.3	5.5	7.3	9.9	17.6	33.7	33.7	17.6	9.9	7.3	5.5	3.3	1.5	1.0			
-40	0.7	1.4	2.9	4.9	6.7	8.1	9.4	10.6	10.6	9.4	8.1	6.7	4.9	2.9	1.4	0.7			
-50	0.7	1.1	2.4	4.0	5.7	7.0	7.9	8.4	8.4	7.9	7.0	5.7	4.0	2.4	1.1	0.7			
-60	0.3	0.8	1.8	3.0	4.2	5.3	6.0	6.5	6.5	6.0	5.3	4.2	3.0	1.8	0.8	0.3			
-70	0.3	0.5	1.1	1.9	2.6	3.3	3.8	4.0	4.0	3.8	3.3	2.6	1.9	1.1	0.5	0.3			
-80	0.0	0.7		2.1		3.3		3.7		3.3		2.1		0.7		0.0			
-90	0.0																		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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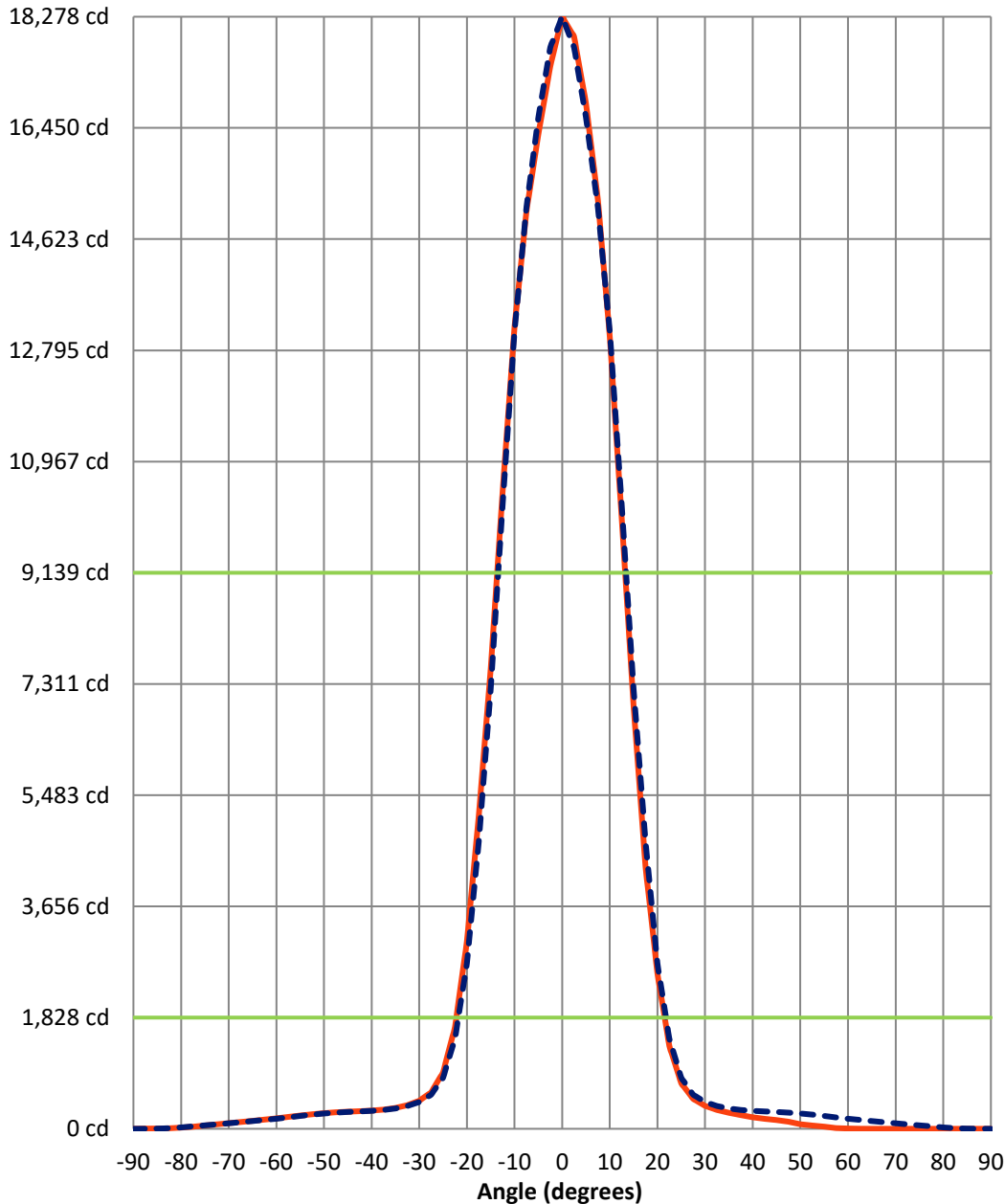
Luminous Intensity Polar Plot



— 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: 2274.2
Efficiency: 48.6%

Field:
H Angle: 43.6°
V Angle: 43.7°
Lumens: 3682
Efficiency: 78.7%

Spill:
Lumens: 994.1
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	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	4	5	5
55°	0	0	1	1	2	3	4	4	5	6	8
52.5°	0	0	1	1	2	4	5	6	7	10	12
50°	0	0	1	1	3	5	6	8	9	14	17
47.5°	0	0	1	1	4	6	8	11	13	18	24
45°	0	0	1	2	4	7	10	13	17	24	30
42.5°	0	0	1	2	5	9	13	17	22	30	38
40°	0	0	1	3	6	10	15	21	27	36	47
37.5°	0	0	1	3	7	11	18	25	33	43	55
35°	0	0	1	4	8	13	21	29	39	51	64
32.5°	0	0	2	4	9	16	24	33	44	57	71
30°	0	1	2	5	10	18	27	37	50	64	77
27.5°	0	1	2	5	11	20	30	41	55	70	84
25°	0	1	2	6	12	22	33	46	61	76	90
22.5°	0	1	2	6	14	24	37	50	66	81	96
20°	0	1	2	7	15	27	39	54	70	86	101
17.5°	0	1	2	7	16	29	42	58	75	91	106
15°	0	1	3	8	17	31	45	62	79	95	111
12.5°	0	1	3	8	18	33	47	64	82	99	115
10°	0	1	3	8	19	35	49	67	84	102	119
7.5°	0	1	3	9	21	36	52	69	86	104	122
5°	0	1	3	9	21	38	54	71	89	107	124
2.5°	0	1	3	9	22	39	55	72	90	108	126
0°	0	1	3	10	22	41	57	73	91	109	127
-2.5°	0	1	3	10	23	41	57	74	91	110	128
-5°	0	1	3	10	23	42	58	74	92	111	129
-7.5°	0	1	3	10	24	42	58	74	92	110	129
-10°	0	1	3	10	24	42	58	74	91	110	129
-12.5°	0	1	3	10	24	42	58	73	91	109	128
-15°	0	1	3	10	24	42	58	73	90	108	127
-17.5°	0	1	3	10	23	41	57	72	89	107	125
-20°	0	1	3	10	23	41	57	71	88	105	124



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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	3	10	22	40	56	70	86	103	121
-25°	0	1	3	10	22	38	54	68	84	101	119
-27.5°	0	1	3	10	21	37	53	67	82	99	116
-30°	0	1	3	9	20	35	52	65	80	96	113
-32.5°	0	1	3	9	19	33	50	63	77	93	109
-35°	0	1	3	8	18	31	47	61	74	89	105
-37.5°	0	1	3	8	16	29	45	58	71	86	101
-40°	0	1	3	7	15	27	42	56	68	82	97
-42.5°	0	1	2	7	14	26	39	53	65	78	92
-45°	0	1	2	6	13	24	36	50	61	73	86
-47.5°	0	1	2	5	12	21	33	46	58	68	81
-50°	0	1	2	5	11	19	30	42	54	64	75
-52.5°	0	1	2	4	10	17	27	38	49	59	70
-55°	0	1	1	4	8	15	24	35	44	54	63
-57.5°	0	1	1	3	7	13	21	30	39	49	57
-60°	0	0	1	3	6	11	18	27	34	43	51
-62.5°	0	0	1	3	5	9	15	22	29	37	45
-65°	0	0	1	2	4	7	13	18	24	31	38
-67.5°	0	0	1	2	4	6	10	15	19	25	31
-70°	0	0	1	1	3	5	7	11	15	19	24
-72.5°	0	0	1	1	2	4	6	7	11	14	17
-75°	0	0	1	1	1	3	4	6	7	9	12
-77.5°	0	0	1	1	1	2	3	4	5	6	7
-80°	0	0	0	1	1	1	2	2	3	4	5
-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



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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	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	2	1	2	2	1	2	2
60°	3	3	4	5	4	4	5	5	5	4	6
57.5°	5	5	8	9	9	8	10	10	11	11	12
55°	9	10	13	15	16	15	17	19	20	20	21
52.5°	14	16	20	23	24	25	27	31	33	32	34
50°	21	25	28	32	34	37	40	45	47	49	52
47.5°	29	34	37	42	46	51	57	61	64	69	77
45°	38	43	47	53	60	68	73	77	83	90	98
42.5°	47	53	58	65	76	84	89	94	102	113	120
40°	56	62	69	80	92	99	106	113	126	136	143
37.5°	64	72	81	94	106	115	124	135	148	159	165
35°	73	82	94	108	120	132	142	154	167	178	186
32.5°	82	92	106	120	133	147	158	171	184	196	204
30°	90	102	117	131	146	160	173	186	201	212	220
27.5°	97	112	128	143	159	173	187	202	216	227	234
25°	103	120	138	154	170	186	200	217	230	240	248
22.5°	110	128	145	165	182	198	214	229	242	253	261
20°	117	134	153	173	192	210	226	240	252	262	272
17.5°	123	140	159	180	200	219	236	251	260	269	279
15°	128	146	165	186	207	226	243	258	267	275	285
12.5°	133	150	170	192	213	232	249	262	271	280	292
10°	137	154	175	197	218	238	254	266	275	284	298
7.5°	140	158	179	201	223	243	258	269	278	288	302
5°	143	161	182	205	227	247	261	272	281	291	306
2.5°	145	164	185	209	231	250	264	275	283	294	308
0°	147	165	187	212	233	251	266	277	285	295	310
-2.5°	147	167	188	212	234	252	267	278	286	295	310
-5°	147	167	189	212	234	252	267	277	286	294	308
-7.5°	147	167	189	211	233	251	266	277	284	293	306
-10°	146	166	188	210	231	249	264	275	283	291	303
-12.5°	146	165	186	207	229	247	262	273	282	289	299
-15°	144	163	183	205	226	245	259	271	280	287	295
-17.5°	143	161	180	201	222	242	256	269	278	285	292
-20°	141	158	177	197	218	238	253	266	275	282	289



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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°	139	155	173	192	213	232	249	262	272	280	286
-25°	136	152	169	188	208	227	244	258	269	277	283
-27.5°	133	149	165	183	202	221	238	253	264	273	280
-30°	130	146	161	178	196	214	231	246	259	268	276
-32.5°	126	142	157	173	190	207	224	239	251	262	270
-35°	121	137	152	167	183	200	215	230	244	255	264
-37.5°	117	132	146	161	176	191	207	221	234	247	256
-40°	111	126	140	154	168	182	196	210	224	236	247
-42.5°	107	120	134	147	160	173	186	200	212	224	236
-45°	100	114	128	140	151	163	175	188	200	211	222
-47.5°	94	107	120	132	142	154	164	176	187	198	209
-50°	87	100	112	123	133	143	154	163	173	184	194
-52.5°	80	92	103	113	123	133	142	151	159	168	178
-55°	73	84	94	103	113	122	130	138	146	154	161
-57.5°	67	76	85	94	102	110	118	125	132	139	146
-60°	60	67	76	84	92	99	105	112	118	125	131
-62.5°	52	60	67	74	81	88	93	99	105	110	116
-65°	45	52	58	64	71	76	81	86	91	95	100
-67.5°	37	43	49	55	61	65	69	73	77	81	85
-70°	29	34	39	44	50	54	57	61	64	68	71
-72.5°	21	26	30	34	37	41	45	48	51	54	57
-75°	15	17	20	23	27	29	32	35	37	39	42
-77.5°	9	11	13	15	16	18	21	22	24	26	27
-80°	5	6	7	8	10	11	11	12	12	14	15
-82.5°	3	4	4	4	5	5	5	6	6	7	7
-85°	2	2	2	3	3	3	3	3	3	4	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



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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	0	0	0	0	0	0	0	0	0	0
62.5°	2	1	1	2	1	1	2	2	2	1	1
60°	6	5	5	5	5	5	5	5	5	5	5
57.5°	12	11	11	12	13	11	12	14	15	15	15
55°	22	23	23	25	27	28	30	31	32	32	33
52.5°	37	40	40	42	46	47	47	50	51	51	52
50°	58	60	63	67	70	72	72	74	76	76	77
47.5°	80	85	89	94	97	100	103	106	107	108	110
45°	102	107	113	118	122	125	128	131	133	135	137
42.5°	123	130	138	141	142	147	152	154	157	158	159
40°	149	156	163	166	169	175	177	178	180	183	184
37.5°	173	182	189	193	196	201	203	207	211	214	216
35°	195	203	211	214	219	224	229	234	239	245	250
32.5°	212	220	226	232	237	244	252	261	269	279	289
30°	226	234	242	248	257	268	281	296	311	325	342
27.5°	241	249	258	268	282	298	321	342	369	388	422
25°	256	265	277	293	312	340	372	405	454	497	570
22.5°	269	281	298	319	350	390	437	502	599	717	870
20°	282	297	319	351	392	445	527	666	844	1151	1461
17.5°	293	314	341	379	432	518	673	919	1313	1943	2610
15°	302	327	362	411	487	622	859	1317	2137	3149	4331
12.5°	311	339	380	437	539	752	1185	1958	3153	4747	6346
10°	319	351	399	476	624	932	1536	2660	4376	6451	8455
7.5°	325	361	415	508	707	1148	2019	3506	5571	7964	10415
5°	329	367	427	537	776	1311	2375	4158	6502	9217	12001
2.5°	333	373	437	558	822	1413	2604	4550	7037	9969	12836
0°	334	375	440	561	840	1481	2717	4725	7227	10251	13100
-2.5°	334	374	441	564	822	1454	2678	4667	7100	10150	12943
-5°	331	369	431	545	790	1357	2520	4377	6699	9504	12151
-7.5°	328	363	419	517	730	1205	2175	3767	5895	8306	10816
-10°	323	355	404	485	647	993	1681	2955	4791	6897	8969
-12.5°	317	344	385	445	557	802	1305	2209	3571	5291	6977
-15°	309	333	368	420	505	661	936	1502	2493	3697	5009
-17.5°	304	323	351	390	446	547	732	1040	1557	2383	3218
-20°	298	312	335	366	409	470	567	740	959	1394	1800



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	293	304	320	343	376	420	475	556	674	828	1048
-25°	289	297	308	326	348	379	416	459	521	582	685
-27.5°	286	292	299	311	328	345	371	398	433	462	509
-30°	282	287	293	300	311	323	338	356	376	394	418
-32.5°	277	283	288	293	298	306	315	327	338	351	364
-35°	272	278	283	287	290	295	300	306	312	321	328
-37.5°	264	272	277	281	283	286	290	293	296	301	306
-40°	256	263	269	273	277	279	282	284	286	289	292
-42.5°	245	253	259	264	268	272	274	276	279	281	282
-45°	233	240	247	253	258	261	264	268	270	272	274
-47.5°	217	226	232	239	244	249	252	256	259	261	264
-50°	202	210	216	223	228	233	238	241	244	246	250
-52.5°	186	193	199	205	211	215	220	223	226	228	231
-55°	169	175	181	187	192	196	200	203	206	208	211
-57.5°	153	159	164	169	173	177	180	183	185	187	190
-60°	137	143	147	152	155	159	161	163	165	166	168
-62.5°	121	126	130	134	138	141	143	144	146	147	148
-65°	105	110	114	118	121	124	125	127	128	129	129
-67.5°	89	93	97	100	103	106	108	109	110	111	111
-70°	74	77	80	83	85	88	89	90	91	92	93
-72.5°	59	62	64	66	68	69	71	72	72	73	73
-75°	44	46	48	49	51	52	52	53	54	54	55
-77.5°	28	29	31	32	33	34	34	35	35	35	35
-80°	16	16	17	18	18	18	19	19	19	20	20
-82.5°	8	8	8	8	8	9	9	8	8	9	9
-85°	4	4	4	4	4	4	4	4	4	4	4
-87.5°	2	2	3	3	3	3	3	3	3	3	3
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731746
 CATALOG NUMBER: NHRS50U33BZ740-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°	14	12	12	12	12	12	14	15	15	15	14
55°	34	35	36	35	36	35	34	33	32	32	31
52.5°	52	52	53	54	53	52	52	52	51	51	50
50°	76	74	74	75	74	74	76	77	76	76	74
47.5°	113	115	118	117	118	115	113	110	108	107	106
45°	139	141	143	144	143	141	139	137	135	133	131
42.5°	161	162	163	164	163	162	161	159	158	157	154
40°	187	188	189	189	189	188	187	184	183	180	178
37.5°	219	222	224	225	224	222	219	216	214	211	207
35°	254	259	263	263	263	259	254	250	245	239	234
32.5°	296	303	309	310	309	303	296	289	279	269	261
30°	353	364	371	377	371	364	353	342	325	311	296
27.5°	447	469	485	493	485	469	447	422	388	369	342
25°	638	687	717	749	717	687	638	570	497	454	405
22.5°	1053	1184	1263	1363	1263	1184	1053	870	717	599	502
20°	1916	2238	2395	2552	2395	2238	1916	1461	1151	844	666
17.5°	3415	3937	4348	4309	4348	3937	3415	2610	1943	1313	919
15°	5458	6261	6768	6943	6768	6261	5458	4331	3149	2137	1317
12.5°	7809	9031	9863	10033	9863	9031	7809	6346	4747	3153	1958
10°	10434	11810	12728	13014	12728	11810	10434	8455	6451	4376	2660
7.5°	12650	14123	14932	15266	14932	14123	12650	10415	7964	5571	3506
5°	14120	15672	16459	16852	16459	15672	14120	12001	9217	6502	4158
2.5°	14972	16448	17545	17950	17545	16448	14972	12836	9969	7037	4550
0°	15143	16622	17772	18278	17772	16622	15143	13100	10251	7227	4725
-2.5°	14960	16265	17196	17460	17196	16265	14960	12943	10150	7100	4667
-5°	14233	15500	16184	16345	16184	15500	14233	12151	9504	6699	4377
-7.5°	12859	14206	14924	15074	14924	14206	12859	10816	8306	5895	3767
-10°	10878	12259	13002	13177	13002	12259	10878	8969	6897	4791	2955
-12.5°	8495	9714	10411	10472	10411	9714	8495	6977	5291	3571	2209
-15°	6201	7092	7595	7561	7595	7092	6201	5009	3697	2493	1502
-17.5°	4069	4695	5039	5150	5039	4695	4069	3218	2383	1557	1040
-20°	2378	2788	3051	3079	3051	2788	2378	1800	1394	959	740



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 CATALOG NUMBER: NHRS50U33BZ740-VS_25

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1323	1537	1674	1672	1674	1537	1323	1048	828	674	556
-25°	789	869	919	927	919	869	789	685	582	521	459
-27.5°	547	578	600	600	600	578	547	509	462	433	398
-30°	437	452	466	461	466	452	437	418	394	376	356
-32.5°	374	382	389	388	389	382	374	364	351	338	327
-35°	334	340	344	343	344	340	334	328	321	312	306
-37.5°	309	312	315	315	315	312	309	306	301	296	293
-40°	295	297	299	299	299	297	295	292	289	286	284
-42.5°	285	287	289	289	289	287	285	282	281	279	276
-45°	277	279	280	281	280	279	277	274	272	270	268
-47.5°	267	269	271	272	271	269	267	264	261	259	256
-50°	253	255	257	257	257	255	253	250	246	244	241
-52.5°	234	236	238	239	238	236	234	231	228	226	223
-55°	214	216	218	218	218	216	214	211	208	206	203
-57.5°	192	193	195	195	195	193	192	190	187	185	183
-60°	170	171	172	172	172	171	170	168	166	165	163
-62.5°	149	150	151	151	151	150	149	148	147	146	144
-65°	130	131	131	130	131	131	130	129	129	128	127
-67.5°	112	113	112	112	112	113	112	111	111	110	109
-70°	93	93	93	92	93	93	93	93	92	91	90
-72.5°	74	74	74	74	74	74	74	73	73	72	72
-75°	55	56	55	55	55	56	55	55	54	54	53
-77.5°	35	35	35	34	35	35	35	35	35	35	35
-80°	20	20	20	20	20	20	20	20	20	19	19
-82.5°	9	9	9	9	9	9	9	9	9	8	8
-85°	5	5	5	5	5	5	5	4	4	4	4
-87.5°	4	4	4	4	4	4	4	3	3	3	3
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731746
 CATALOG NUMBER: NHRS50U33BZ740-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	2	1	1	2	2	2	1	2
60°	5	5	5	5	5	5	6	6	4	5	5
57.5°	12	11	13	12	11	11	12	12	11	11	10
55°	30	28	27	25	23	23	22	21	20	20	19
52.5°	47	47	46	42	40	40	37	34	32	33	31
50°	72	72	70	67	63	60	58	52	49	47	45
47.5°	103	100	97	94	89	85	80	77	69	64	61
45°	128	125	122	118	113	107	102	98	90	83	77
42.5°	152	147	142	141	138	130	123	120	113	102	94
40°	177	175	169	166	163	156	149	143	136	126	113
37.5°	203	201	196	193	189	182	173	165	159	148	135
35°	229	224	219	214	211	203	195	186	178	167	154
32.5°	252	244	237	232	226	220	212	204	196	184	171
30°	281	268	257	248	242	234	226	220	212	201	186
27.5°	321	298	282	268	258	249	241	234	227	216	202
25°	372	340	312	293	277	265	256	248	240	230	217
22.5°	437	390	350	319	298	281	269	261	253	242	229
20°	527	445	392	351	319	297	282	272	262	252	240
17.5°	673	518	432	379	341	314	293	279	269	260	251
15°	859	622	487	411	362	327	302	285	275	267	258
12.5°	1185	752	539	437	380	339	311	292	280	271	262
10°	1536	932	624	476	399	351	319	298	284	275	266
7.5°	2019	1148	707	508	415	361	325	302	288	278	269
5°	2375	1311	776	537	427	367	329	306	291	281	272
2.5°	2604	1413	822	558	437	373	333	308	294	283	275
0°	2717	1481	840	561	440	375	334	310	295	285	277
-2.5°	2678	1454	822	564	441	374	334	310	295	286	278
-5°	2520	1357	790	545	431	369	331	308	294	286	277
-7.5°	2175	1205	730	517	419	363	328	306	293	284	277
-10°	1681	993	647	485	404	355	323	303	291	283	275
-12.5°	1305	802	557	445	385	344	317	299	289	282	273
-15°	936	661	505	420	368	333	309	295	287	280	271
-17.5°	732	547	446	390	351	323	304	292	285	278	269
-20°	567	470	409	366	335	312	298	289	282	275	266



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	475	420	376	343	320	304	293	286	280	272	262
-25°	416	379	348	326	308	297	289	283	277	269	258
-27.5°	371	345	328	311	299	292	286	280	273	264	253
-30°	338	323	311	300	293	287	282	276	268	259	246
-32.5°	315	306	298	293	288	283	277	270	262	251	239
-35°	300	295	290	287	283	278	272	264	255	244	230
-37.5°	290	286	283	281	277	272	264	256	247	234	221
-40°	282	279	277	273	269	263	256	247	236	224	210
-42.5°	274	272	268	264	259	253	245	236	224	212	200
-45°	264	261	258	253	247	240	233	222	211	200	188
-47.5°	252	249	244	239	232	226	217	209	198	187	176
-50°	238	233	228	223	216	210	202	194	184	173	163
-52.5°	220	215	211	205	199	193	186	178	168	159	151
-55°	200	196	192	187	181	175	169	161	154	146	138
-57.5°	180	177	173	169	164	159	153	146	139	132	125
-60°	161	159	155	152	147	143	137	131	125	118	112
-62.5°	143	141	138	134	130	126	121	116	110	105	99
-65°	125	124	121	118	114	110	105	100	95	91	86
-67.5°	108	106	103	100	97	93	89	85	81	77	73
-70°	89	88	85	83	80	77	74	71	68	64	61
-72.5°	71	69	68	66	64	62	59	57	54	51	48
-75°	52	52	51	49	48	46	44	42	39	37	35
-77.5°	34	34	33	32	31	29	28	27	26	24	22
-80°	19	18	18	18	17	16	16	15	14	12	12
-82.5°	9	9	8	8	8	8	8	7	7	6	6
-85°	4	4	4	4	4	4	4	4	4	3	3
-87.5°	3	3	3	3	3	2	2	2	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: NHRS50U33BZ740-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	2	2	2	1	1	2	2	1	1
60°	5	4	4	5	4	3	3	3	3	2	2
57.5°	10	8	9	9	8	5	5	5	5	4	2
55°	17	15	16	15	13	10	9	8	6	5	4
52.5°	27	25	24	23	20	16	14	12	10	7	6
50°	40	37	34	32	28	25	21	17	14	9	8
47.5°	57	51	46	42	37	34	29	24	18	13	11
45°	73	68	60	53	47	43	38	30	24	17	13
42.5°	89	84	76	65	58	53	47	38	30	22	17
40°	106	99	92	80	69	62	56	47	36	27	21
37.5°	124	115	106	94	81	72	64	55	43	33	25
35°	142	132	120	108	94	82	73	64	51	39	29
32.5°	158	147	133	120	106	92	82	71	57	44	33
30°	173	160	146	131	117	102	90	77	64	50	37
27.5°	187	173	159	143	128	112	97	84	70	55	41
25°	200	186	170	154	138	120	103	90	76	61	46
22.5°	214	198	182	165	145	128	110	96	81	66	50
20°	226	210	192	173	153	134	117	101	86	70	54
17.5°	236	219	200	180	159	140	123	106	91	75	58
15°	243	226	207	186	165	146	128	111	95	79	62
12.5°	249	232	213	192	170	150	133	115	99	82	64
10°	254	238	218	197	175	154	137	119	102	84	67
7.5°	258	243	223	201	179	158	140	122	104	86	69
5°	261	247	227	205	182	161	143	124	107	89	71
2.5°	264	250	231	209	185	164	145	126	108	90	72
0°	266	251	233	212	187	165	147	127	109	91	73
-2.5°	267	252	234	212	188	167	147	128	110	91	74
-5°	267	252	234	212	189	167	147	129	111	92	74
-7.5°	266	251	233	211	189	167	147	129	110	92	74
-10°	264	249	231	210	188	166	146	129	110	91	74
-12.5°	262	247	229	207	186	165	146	128	109	91	73
-15°	259	245	226	205	183	163	144	127	108	90	73
-17.5°	256	242	222	201	180	161	143	125	107	89	72
-20°	253	238	218	197	177	158	141	124	105	88	71



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 CATALOG NUMBER: NHRS50U33BZ740-VS_25

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	249	232	213	192	173	155	139	121	103	86	70
-25°	244	227	208	188	169	152	136	119	101	84	68
-27.5°	238	221	202	183	165	149	133	116	99	82	67
-30°	231	214	196	178	161	146	130	113	96	80	65
-32.5°	224	207	190	173	157	142	126	109	93	77	63
-35°	215	200	183	167	152	137	121	105	89	74	61
-37.5°	207	191	176	161	146	132	117	101	86	71	58
-40°	196	182	168	154	140	126	111	97	82	68	56
-42.5°	186	173	160	147	134	120	107	92	78	65	53
-45°	175	163	151	140	128	114	100	86	73	61	50
-47.5°	164	154	142	132	120	107	94	81	68	58	46
-50°	154	143	133	123	112	100	87	75	64	54	42
-52.5°	142	133	123	113	103	92	80	70	59	49	38
-55°	130	122	113	103	94	84	73	63	54	44	35
-57.5°	118	110	102	94	85	76	67	57	49	39	30
-60°	105	99	92	84	76	67	60	51	43	34	27
-62.5°	93	88	81	74	67	60	52	45	37	29	22
-65°	81	76	71	64	58	52	45	38	31	24	18
-67.5°	69	65	61	55	49	43	37	31	25	19	15
-70°	57	54	50	44	39	34	29	24	19	15	11
-72.5°	45	41	37	34	30	26	21	17	14	11	7
-75°	32	29	27	23	20	17	15	12	9	7	6
-77.5°	21	18	16	15	13	11	9	7	6	5	4
-80°	11	11	10	8	7	6	5	5	4	3	2
-82.5°	5	5	5	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: P731746
 CATALOG NUMBER: NHRS50U33BZ740-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	4	2	1	1	0	0
50°	6	5	3	1	1	0	0
47.5°	8	6	4	1	1	0	0
45°	10	7	4	2	1	0	0
42.5°	13	9	5	2	1	0	0
40°	15	10	6	3	1	0	0
37.5°	18	11	7	3	1	0	0
35°	21	13	8	4	1	0	0
32.5°	24	16	9	4	2	0	0
30°	27	18	10	5	2	1	0
27.5°	30	20	11	5	2	1	0
25°	33	22	12	6	2	1	0
22.5°	37	24	14	6	2	1	0
20°	39	27	15	7	2	1	0
17.5°	42	29	16	7	2	1	0
15°	45	31	17	8	3	1	0
12.5°	47	33	18	8	3	1	0
10°	49	35	19	8	3	1	0
7.5°	52	36	21	9	3	1	0
5°	54	38	21	9	3	1	0
2.5°	55	39	22	9	3	1	0
0°	57	41	22	10	3	1	0
-2.5°	57	41	23	10	3	1	0
-5°	58	42	23	10	3	1	0
-7.5°	58	42	24	10	3	1	0
-10°	58	42	24	10	3	1	0
-12.5°	58	42	24	10	3	1	0
-15°	58	42	24	10	3	1	0
-17.5°	57	41	23	10	3	1	0
-20°	57	41	23	10	3	1	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	56	40	22	10	3	1	0
-25°	54	38	22	10	3	1	0
-27.5°	53	37	21	10	3	1	0
-30°	52	35	20	9	3	1	0
-32.5°	50	33	19	9	3	1	0
-35°	47	31	18	8	3	1	0
-37.5°	45	29	16	8	3	1	0
-40°	42	27	15	7	3	1	0
-42.5°	39	26	14	7	2	1	0
-45°	36	24	13	6	2	1	0
-47.5°	33	21	12	5	2	1	0
-50°	30	19	11	5	2	1	0
-52.5°	27	17	10	4	2	1	0
-55°	24	15	8	4	1	1	0
-57.5°	21	13	7	3	1	1	0
-60°	18	11	6	3	1	0	0
-62.5°	15	9	5	3	1	0	0
-65°	13	7	4	2	1	0	0
-67.5°	10	6	4	2	1	0	0
-70°	7	5	3	1	1	0	0
-72.5°	6	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)