

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: P731747

Luminaire Tested: **NHRS50U33BZ740-VS_50**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731747
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50U33BZ740-VS_50
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 3 AT 4000K WITH VISOR @ 50% output
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	10410.3 lumens	Max Intensity:	40691.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	138.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.46' x H: 0')		

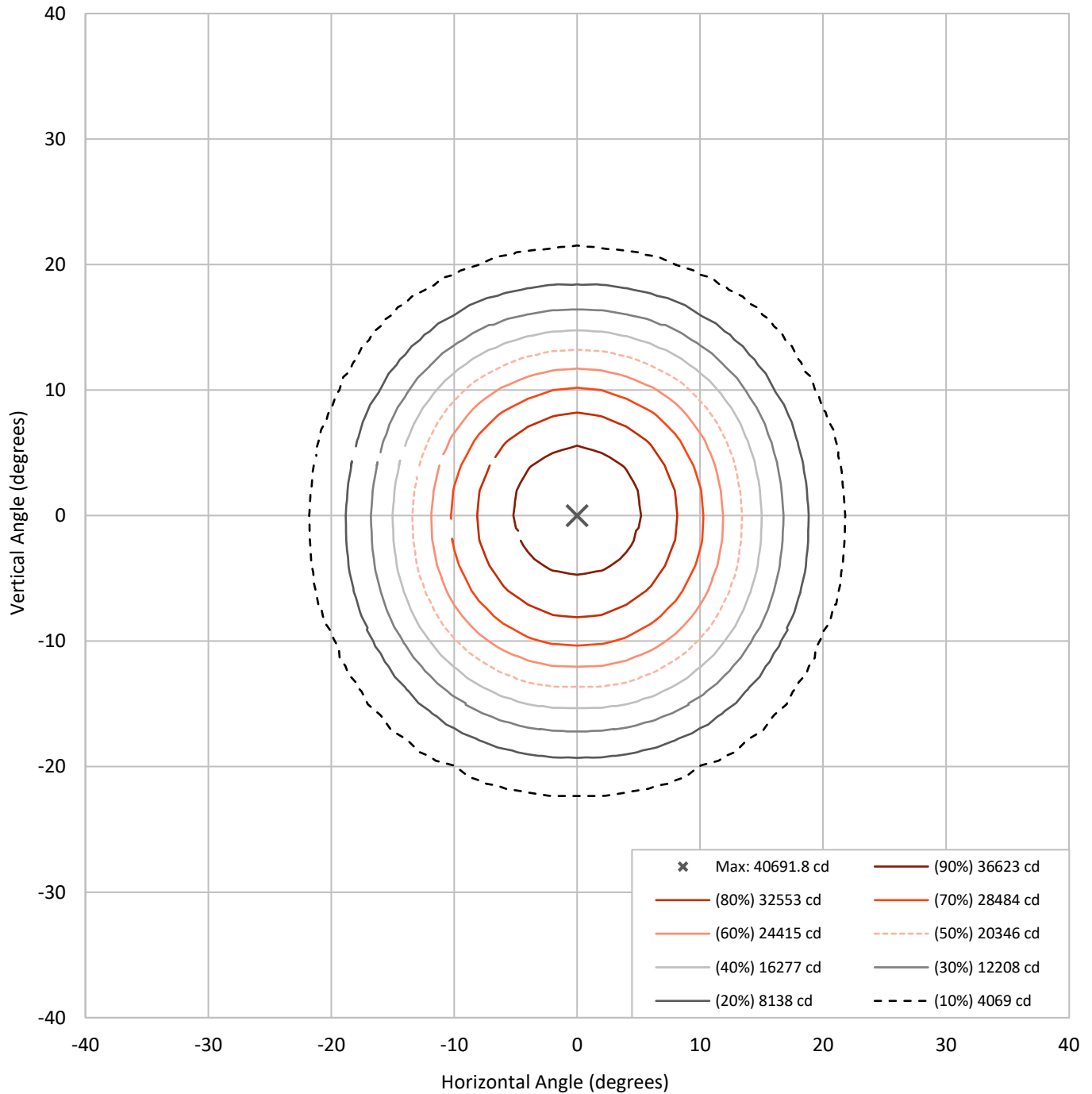
Beam Angle (50%):	26.8°H x 26.9°V	Field Angle (10%):	43.6°H x 43.7°V
Beam Lumens:	5063 lumens	Field Lumens:	8197.1 lumens
Beam Efficiency:	48.6%	Field Efficiency:	78.7%

Input Watts (W): 75
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





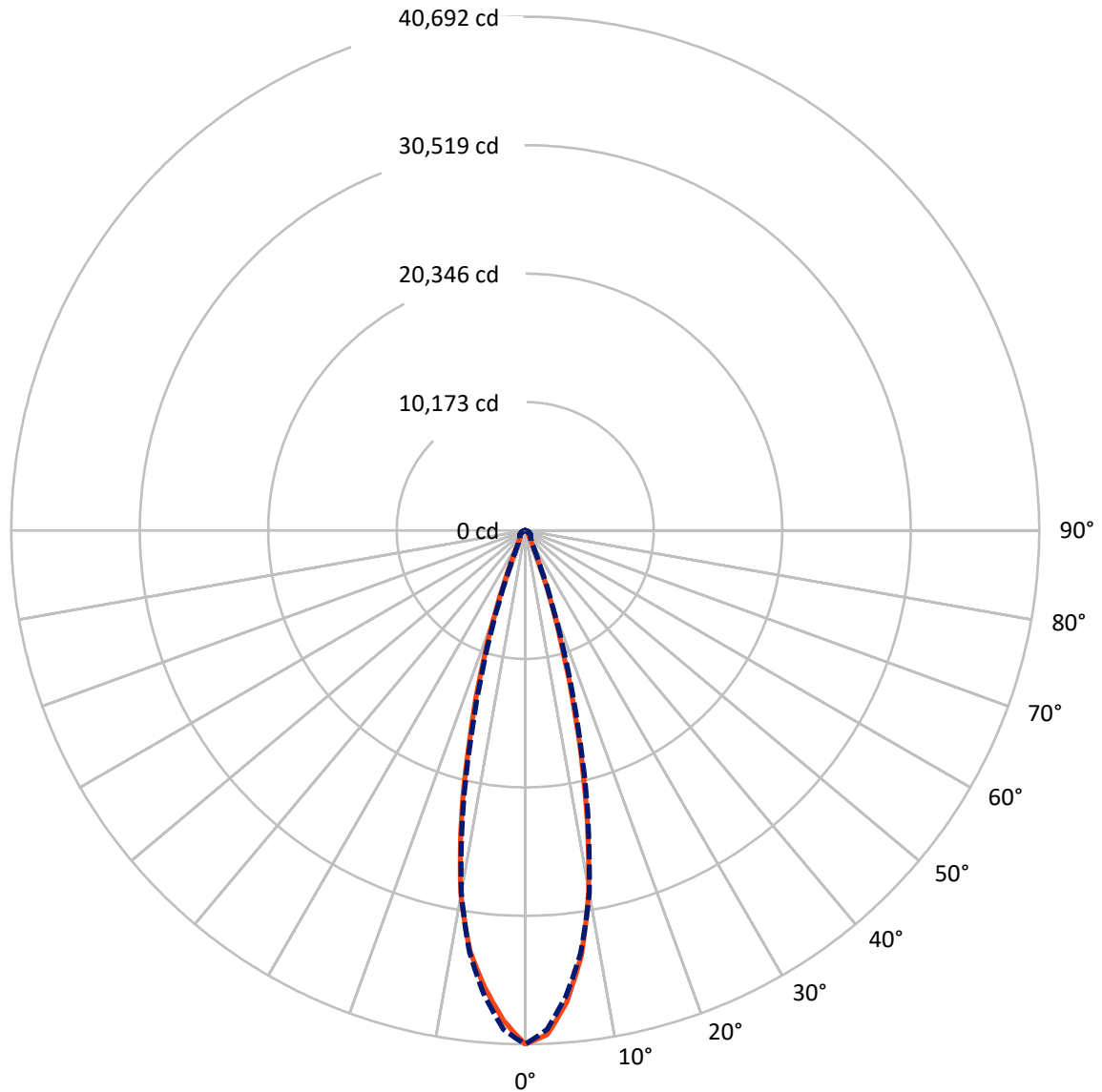
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Lumen Table

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	1.0	1.4	1.8	2.2	2.4	2.4	2.2	1.8	1.4	1.0	0.6	0.2				
50	0.6	0.9	2.1	3.8	5.7	7.4	8.6	9.3	9.3	8.6	7.4	5.7	3.8	2.1	0.9	0.6			
40		1.8	4.2	7.4	10.7	13.3	15.8	17.8	17.8	15.8	13.3	10.7	7.4	4.2	1.8				
30	1.6	2.6	6.0	10.3	14.3	19.8	33.7	59.8	59.8	33.7	19.8	14.3	10.3	6.0	2.6	1.6			
20		3.2	7.3	12.2	17.1	33.9	163.2	427.4	427.4	163.2	33.9	17.1	12.2	7.3	3.2				
10	2.2	3.6	8.0	13.0	18.9	60.7	427.1	991.6	991.6	427.1	60.7	18.9	13.0	8.0	3.6	2.2			
0		3.7	8.2	13.2	19.0	62.6	440.4	991.1	991.1	440.4	62.6	19.0	13.2	8.2	3.7				
-10	2.2	3.7	8.0	12.9	17.6	35.7	184.8	470.2	470.2	184.8	35.7	17.6	12.9	8.0	3.7	2.2			
-20		3.4	7.4	12.2	16.2	22.1	39.2	75.0	75.0	39.2	22.1	16.2	12.2	7.4	3.4				
-30	1.6	3.1	6.5	11.0	15.0	17.9	20.9	23.7	23.7	20.9	17.9	15.0	11.0	6.5	3.1	1.6			
-40		2.5	5.4	9.0	12.8	15.7	17.5	18.7	18.7	17.5	15.7	12.8	9.0	5.4	2.5				
-50	0.8	1.9	4.0	6.6	9.4	11.8	13.4	14.5	14.5	13.4	11.8	9.4	6.6	4.0	1.9	0.8			
-60		1.1	2.5	4.1	5.8	7.4	8.3	8.8	8.8	8.3	7.4	5.8	4.1	2.5	1.1				
-70	0.1	1.1	2.5	4.1	5.8	7.4	8.3	8.8	8.8	8.3	7.4	5.8	4.1	2.5	1.1	0.1			
-80		1.5	4.6	7.4	8.3	7.4	4.6	1.5	0.1										
-90	0.1	1.5	4.6	7.4	8.3	7.4	4.6	1.5	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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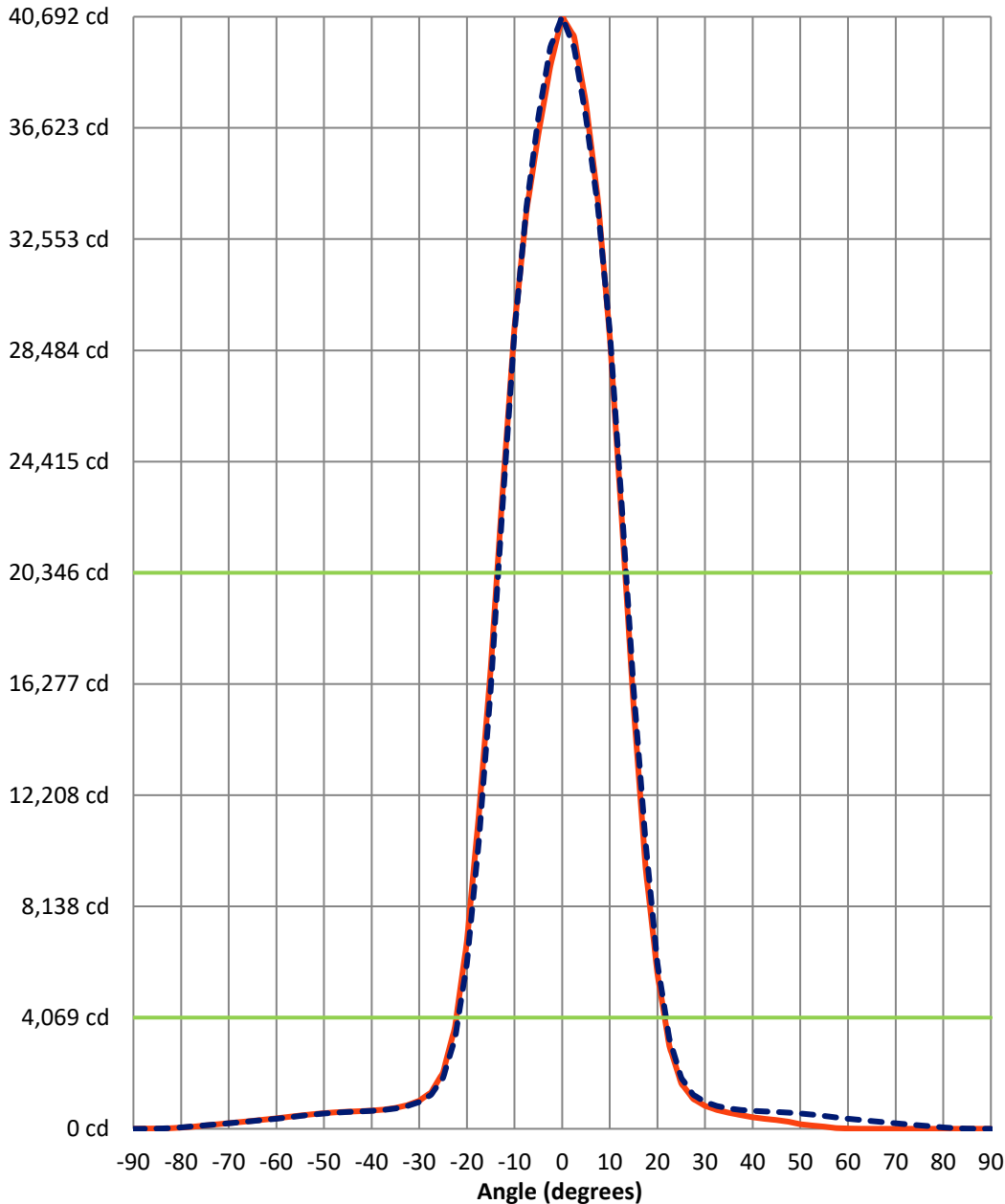
Luminous Intensity Polar Plot



— 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: 5063
Efficiency: 48.6%

Field:
H Angle: 43.6°
V Angle: 43.7°
Lumens: 8197.1
Efficiency: 78.7%

Spill:
Lumens: 2213.2
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	8	10	12
55°	0	1	1	2	4	6	9	8	12	14	18
52.5°	0	1	2	3	5	8	11	12	15	22	26
50°	0	1	2	3	7	11	14	18	21	30	38
47.5°	0	1	2	3	8	13	17	23	29	39	53
45°	0	1	2	4	10	16	22	29	39	53	67
42.5°	0	1	3	5	11	19	28	37	49	66	85
40°	0	1	3	6	13	22	34	46	60	80	104
37.5°	0	1	3	7	15	25	40	55	73	96	123
35°	0	1	3	9	18	29	46	64	86	113	142
32.5°	0	1	4	10	20	35	53	73	99	128	157
30°	0	1	4	11	22	39	60	82	111	142	172
27.5°	0	1	4	12	25	44	67	92	123	156	186
25°	0	1	4	13	28	49	74	102	135	169	200
22.5°	0	1	5	14	30	54	81	111	146	180	213
20°	0	1	5	15	33	59	88	121	157	192	225
17.5°	0	1	5	16	35	64	94	130	166	202	236
15°	0	1	6	17	38	68	99	137	175	212	247
12.5°	0	1	6	18	40	73	105	143	183	221	257
10°	0	1	6	19	42	77	110	148	187	227	265
7.5°	0	1	6	20	46	81	115	153	192	232	271
5°	0	1	6	20	47	85	120	158	197	237	276
2.5°	0	1	7	21	48	88	123	160	200	240	280
0°	0	1	7	21	50	90	126	162	202	242	283
-2.5°	0	1	7	22	51	92	128	164	203	244	285
-5°	0	1	7	22	52	93	130	165	205	246	287
-7.5°	0	1	7	23	53	93	129	164	204	245	287
-10°	0	1	7	23	53	94	129	164	203	245	286
-12.5°	0	1	7	23	53	93	129	163	202	244	284
-15°	0	1	7	23	53	93	128	162	200	241	282
-17.5°	0	1	7	23	52	92	127	160	198	238	279
-20°	0	1	7	22	51	91	126	158	195	235	275



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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	22	50	89	124	156	191	230	270
-25°	0	1	7	22	48	85	121	152	187	225	265
-27.5°	0	1	7	21	47	82	118	149	182	220	258
-30°	0	1	7	20	45	78	115	144	177	213	251
-32.5°	0	1	6	20	42	74	110	140	171	206	243
-35°	0	1	6	19	40	70	106	135	166	199	235
-37.5°	0	1	6	18	37	65	100	130	159	191	225
-40°	0	1	6	16	33	61	93	124	151	183	215
-42.5°	0	1	5	15	31	57	87	118	144	173	204
-45°	0	1	5	13	29	53	80	110	136	163	192
-47.5°	0	1	5	11	27	48	73	102	128	152	180
-50°	0	1	4	10	24	42	67	93	119	142	167
-52.5°	0	1	4	10	21	37	61	85	109	132	155
-55°	0	1	3	9	18	33	54	77	99	120	141
-57.5°	0	1	3	7	15	29	47	67	88	108	128
-60°	0	1	2	7	12	25	40	59	76	95	114
-62.5°	0	1	2	6	11	21	34	49	65	82	100
-65°	0	1	2	5	9	16	28	40	54	69	85
-67.5°	0	1	2	4	8	12	22	32	42	55	70
-70°	0	1	2	3	6	10	15	24	33	41	54
-72.5°	0	1	1	2	5	8	12	16	24	31	38
-75°	0	1	1	2	3	6	10	12	15	21	27
-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	4	3	4	5	3	4	4
60°	6	6	9	10	9	9	10	12	11	9	12
57.5°	11	12	17	19	20	17	22	23	25	24	26
55°	19	22	28	33	35	34	38	43	45	45	46
52.5°	32	35	45	50	54	56	61	68	73	72	75
50°	46	55	63	71	76	82	90	100	106	109	116
47.5°	64	75	83	93	102	114	126	135	142	153	170
45°	84	96	106	118	133	151	162	171	184	200	218
42.5°	106	117	130	144	168	186	198	210	227	253	267
40°	124	139	154	178	204	221	236	252	281	304	318
37.5°	143	161	180	210	236	256	276	300	330	355	368
35°	163	183	209	239	267	293	315	343	371	397	415
32.5°	182	205	236	266	296	327	352	380	410	436	455
30°	200	228	261	292	326	356	384	414	448	471	489
27.5°	215	250	284	318	353	385	415	451	482	505	522
25°	230	268	307	343	379	413	446	484	513	535	552
22.5°	245	284	324	367	405	441	476	510	539	564	581
20°	260	299	340	384	428	467	502	534	560	583	604
17.5°	273	312	354	400	445	488	525	559	579	599	620
15°	284	324	367	414	460	503	541	574	594	612	634
12.5°	295	335	379	427	474	517	554	583	604	624	651
10°	305	344	389	438	486	530	565	591	612	633	663
7.5°	311	352	398	448	497	541	574	599	619	641	673
5°	317	358	405	457	506	549	580	604	625	648	681
2.5°	323	364	412	466	514	556	587	612	631	654	687
0°	326	368	415	471	519	560	591	617	635	657	689
-2.5°	328	371	419	473	521	561	594	618	636	657	689
-5°	328	372	420	472	520	560	594	618	636	655	686
-7.5°	327	373	421	470	518	558	592	616	633	652	681
-10°	326	370	418	466	514	554	587	612	630	648	675
-12.5°	324	367	414	462	509	550	583	609	627	643	666
-15°	322	363	408	455	503	544	577	603	623	638	657
-17.5°	318	358	402	447	495	538	570	599	619	634	651
-20°	314	352	394	438	484	529	563	591	613	629	644



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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°	309	345	385	428	474	517	554	584	606	623	637
-25°	304	339	377	419	462	505	544	575	599	616	630
-27.5°	297	332	368	408	450	492	531	563	588	608	623
-30°	289	324	359	396	437	477	515	549	576	596	613
-32.5°	280	316	349	384	422	462	498	531	560	583	601
-35°	270	305	337	371	408	444	479	512	542	567	587
-37.5°	260	293	326	358	392	425	461	491	521	550	569
-40°	248	281	313	343	374	405	437	469	499	525	551
-42.5°	238	268	299	328	356	384	414	445	473	499	524
-45°	223	254	284	311	336	363	391	419	445	470	495
-47.5°	209	239	268	293	317	342	366	392	417	440	464
-50°	194	222	250	273	296	319	343	363	386	409	431
-52.5°	179	205	230	252	274	295	316	336	355	375	395
-55°	163	187	209	230	251	271	289	307	325	342	359
-57.5°	148	169	188	209	228	245	262	279	295	310	325
-60°	133	150	168	186	204	220	235	249	263	278	291
-62.5°	116	133	149	165	180	195	208	220	234	245	257
-65°	100	115	130	143	158	169	180	191	202	212	223
-67.5°	83	96	109	123	135	144	154	163	172	181	189
-70°	65	76	87	99	110	119	127	135	143	151	158
-72.5°	47	57	66	75	83	92	100	106	113	119	126
-75°	32	38	45	52	59	65	71	77	82	88	93
-77.5°	20	25	29	33	36	41	46	50	54	57	59
-80°	11	12	15	19	21	23	25	27	28	30	33
-82.5°	7	8	9	10	10	11	11	12	14	15	16
-85°	4	4	5	6	6	7	7	7	7	8	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°	4	3	3	4	3	3	4	4	4	3	3
60°	13	11	10	12	12	10	11	12	11	11	11
57.5°	27	25	24	28	28	25	27	31	33	32	32
55°	49	52	52	55	59	63	66	68	70	71	74
52.5°	82	88	89	92	102	106	104	111	114	113	115
50°	128	134	141	149	156	160	161	166	169	170	171
47.5°	179	188	198	209	216	222	230	237	238	240	245
45°	227	238	252	263	271	279	284	292	297	301	305
42.5°	274	290	307	315	316	328	338	342	349	352	353
40°	331	348	362	369	377	389	395	395	400	408	410
37.5°	385	405	420	429	437	447	453	460	470	476	481
35°	434	451	470	477	487	498	509	521	533	545	556
32.5°	471	489	504	516	528	544	561	582	600	621	643
30°	503	522	538	552	572	597	625	658	692	724	760
27.5°	537	555	575	597	628	664	714	762	820	864	940
25°	569	590	617	652	696	757	829	903	1010	1106	1269
22.5°	599	626	663	711	779	868	974	1118	1334	1596	1938
20°	627	661	710	781	872	990	1173	1484	1879	2563	3252
17.5°	652	698	759	844	961	1152	1497	2045	2924	4326	5810
15°	672	727	807	915	1085	1385	1913	2931	4758	7009	9642
12.5°	692	755	846	974	1199	1675	2638	4359	7018	10568	14128
10°	710	782	888	1060	1389	2075	3420	5922	9742	14362	18823
7.5°	724	803	923	1131	1575	2556	4495	7805	12403	17729	23186
5°	733	818	950	1195	1727	2918	5288	9256	14474	20518	26717
2.5°	741	830	973	1242	1829	3145	5796	10129	15666	22192	28576
0°	744	834	979	1250	1871	3297	6050	10520	16089	22822	29165
-2.5°	744	831	981	1255	1830	3236	5962	10389	15806	22596	28815
-5°	738	821	959	1213	1758	3021	5610	9745	14914	21158	27052
-7.5°	730	808	932	1150	1624	2683	4842	8386	13124	18490	24079
-10°	719	790	898	1080	1441	2210	3742	6579	10665	15354	19968
-12.5°	705	765	857	991	1241	1785	2906	4917	7949	11779	15532
-15°	689	741	820	935	1124	1471	2084	3344	5550	8229	11152
-17.5°	677	718	782	868	993	1219	1629	2315	3466	5305	7165
-20°	663	694	745	816	912	1045	1262	1647	2134	3103	4008



REPORT NUMBER: P731747
 CATALOG NUMBER: NHRS50U33BZ740-VS_50

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	653	677	713	765	837	934	1057	1237	1500	1844	2332
-25°	644	660	687	726	775	843	926	1022	1160	1296	1524
-27.5°	636	649	666	692	730	769	826	887	963	1028	1133
-30°	628	639	653	669	691	718	752	793	836	878	931
-32.5°	617	630	641	653	664	682	700	727	753	782	810
-35°	604	619	631	638	646	656	667	681	695	714	731
-37.5°	588	604	616	625	631	637	645	652	658	671	680
-40°	569	586	598	608	616	622	627	632	637	644	649
-42.5°	546	562	577	587	597	604	610	615	620	625	628
-45°	518	535	550	562	574	582	588	596	601	605	610
-47.5°	484	503	517	532	544	553	562	569	576	581	587
-50°	449	466	482	496	508	519	529	537	543	549	556
-52.5°	414	429	444	457	469	479	489	497	503	508	515
-55°	376	391	403	416	428	437	446	453	458	463	471
-57.5°	340	353	366	376	386	395	402	408	413	417	422
-60°	305	317	328	337	346	353	359	363	367	370	375
-62.5°	270	281	290	299	307	314	318	322	324	326	330
-65°	234	244	254	262	270	275	279	282	284	286	288
-67.5°	198	208	216	223	230	236	239	242	244	246	248
-70°	165	171	178	184	189	195	198	201	202	204	206
-72.5°	132	137	142	147	151	154	157	159	161	162	163
-75°	98	102	106	109	113	115	117	118	120	121	123
-77.5°	62	65	68	71	73	75	76	77	77	78	78
-80°	35	37	38	39	40	41	42	42	42	44	44
-82.5°	17	18	18	19	19	19	19	19	19	19	19
-85°	9	9	9	9	9	9	9	10	10	10	10
-87.5°	5	5	6	6	6	6	7	7	7	7	7
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731747
 CATALOG NUMBER: NHRS50U33BZ740-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	11	11	11	11	11	11	11	12
57.5°	30	27	26	26	26	27	30	32	32	33	31
55°	76	78	79	79	79	78	76	74	71	70	68
52.5°	116	117	119	120	119	117	116	115	113	114	111
50°	170	166	166	167	166	166	170	171	170	169	166
47.5°	252	256	262	260	262	256	252	245	240	238	237
45°	310	314	317	319	317	314	310	305	301	297	292
42.5°	358	360	363	365	363	360	358	353	352	349	342
40°	415	419	421	421	421	419	415	410	408	400	395
37.5°	488	493	498	501	498	493	488	481	476	470	460
35°	566	576	585	586	585	576	566	556	545	533	521
32.5°	659	675	688	689	688	675	659	643	621	600	582
30°	787	810	827	839	827	810	787	760	724	692	658
27.5°	995	1045	1079	1097	1079	1045	995	940	864	820	762
25°	1420	1530	1595	1667	1595	1530	1420	1269	1106	1010	903
22.5°	2343	2636	2813	3034	2813	2636	2343	1938	1596	1334	1118
20°	4266	4983	5333	5682	5333	4983	4266	3252	2563	1879	1484
17.5°	7602	8765	9680	9592	9680	8765	7602	5810	4326	2924	2045
15°	12150	13938	15067	15457	15067	13938	12150	9642	7009	4758	2931
12.5°	17384	20106	21958	22337	21958	20106	17384	14128	10568	7018	4359
10°	23228	26292	28335	28973	28335	26292	23228	18823	14362	9742	5922
7.5°	28162	31442	33242	33986	33242	31442	28162	23186	17729	12403	7805
5°	31434	34891	36641	37516	36641	34891	31434	26717	20518	14474	9256
2.5°	33331	36617	39058	39961	39058	36617	33331	28576	22192	15666	10129
0°	33712	37004	39564	40692	39564	37004	33712	29165	22822	16089	10520
-2.5°	33304	36211	38283	38869	38283	36211	33304	28815	22596	15806	10389
-5°	31686	34506	36030	36388	36030	34506	31686	27052	21158	14914	9745
-7.5°	28627	31625	33224	33559	33224	31625	28627	24079	18490	13124	8386
-10°	24216	27291	28946	29336	28946	27291	24216	19968	15354	10665	6579
-12.5°	18912	21626	23178	23314	23178	21626	18912	15532	11779	7949	4917
-15°	13804	15788	16907	16834	16907	15788	13804	11152	8229	5550	3344
-17.5°	9059	10452	11217	11465	11217	10452	9059	7165	5305	3466	2315
-20°	5295	6208	6793	6855	6793	6208	5295	4008	3103	2134	1647



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CATALOG NUMBER: NHRS50U33BZ740-VS_50

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2946	3422	3727	3723	3727	3422	2946	2332	1844	1500	1237
-25°	1756	1936	2045	2065	2045	1936	1756	1524	1296	1160	1022
-27.5°	1218	1288	1336	1335	1336	1288	1218	1133	1028	963	887
-30°	973	1007	1036	1027	1036	1007	973	931	878	836	793
-32.5°	834	851	865	864	865	851	834	810	782	753	727
-35°	744	756	765	763	765	756	744	731	714	695	681
-37.5°	688	695	700	701	700	695	688	680	671	658	652
-40°	656	661	665	666	665	661	656	649	644	637	632
-42.5°	634	638	643	644	643	638	634	628	625	620	615
-45°	616	620	624	626	624	620	616	610	605	601	596
-47.5°	593	599	603	604	603	599	593	587	581	576	569
-50°	562	568	572	572	572	568	562	556	549	543	537
-52.5°	522	526	530	531	530	526	522	515	508	503	497
-55°	477	481	485	486	485	481	477	471	463	458	453
-57.5°	427	430	434	435	434	430	427	422	417	413	408
-60°	378	380	383	382	383	380	378	375	370	367	363
-62.5°	332	333	336	337	336	333	332	330	326	324	322
-65°	290	291	291	290	291	291	290	288	286	284	282
-67.5°	249	250	250	249	250	250	249	248	246	244	242
-70°	207	208	207	205	207	208	207	206	204	202	201
-72.5°	165	166	165	164	165	166	165	163	162	161	159
-75°	123	124	123	122	123	124	123	123	121	120	118
-77.5°	78	78	77	76	77	78	78	78	78	77	77
-80°	45	45	44	44	44	45	45	44	44	42	42
-82.5°	20	20	20	19	20	20	20	19	19	19	19
-85°	10	10	10	10	10	10	10	10	10	10	10
-87.5°	8	8	8	8	8	8	8	7	7	7	7
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731747
 CATALOG NUMBER: NHRS50U33BZ740-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	4	3	3	4	4	4	3	5
60°	11	10	12	12	10	11	13	12	9	11	12
57.5°	27	25	28	28	24	25	27	26	24	25	23
55°	66	63	59	55	52	52	49	46	45	45	43
52.5°	104	106	102	92	89	88	82	75	72	73	68
50°	161	160	156	149	141	134	128	116	109	106	100
47.5°	230	222	216	209	198	188	179	170	153	142	135
45°	284	279	271	263	252	238	227	218	200	184	171
42.5°	338	328	316	315	307	290	274	267	253	227	210
40°	395	389	377	369	362	348	331	318	304	281	252
37.5°	453	447	437	429	420	405	385	368	355	330	300
35°	509	498	487	477	470	451	434	415	397	371	343
32.5°	561	544	528	516	504	489	471	455	436	410	380
30°	625	597	572	552	538	522	503	489	471	448	414
27.5°	714	664	628	597	575	555	537	522	505	482	451
25°	829	757	696	652	617	590	569	552	535	513	484
22.5°	974	868	779	711	663	626	599	581	564	539	510
20°	1173	990	872	781	710	661	627	604	583	560	534
17.5°	1497	1152	961	844	759	698	652	620	599	579	559
15°	1913	1385	1085	915	807	727	672	634	612	594	574
12.5°	2638	1675	1199	974	846	755	692	651	624	604	583
10°	3420	2075	1389	1060	888	782	710	663	633	612	591
7.5°	4495	2556	1575	1131	923	803	724	673	641	619	599
5°	5288	2918	1727	1195	950	818	733	681	648	625	604
2.5°	5796	3145	1829	1242	973	830	741	687	654	631	612
0°	6050	3297	1871	1250	979	834	744	689	657	635	617
-2.5°	5962	3236	1830	1255	981	831	744	689	657	636	618
-5°	5610	3021	1758	1213	959	821	738	686	655	636	618
-7.5°	4842	2683	1624	1150	932	808	730	681	652	633	616
-10°	3742	2210	1441	1080	898	790	719	675	648	630	612
-12.5°	2906	1785	1241	991	857	765	705	666	643	627	609
-15°	2084	1471	1124	935	820	741	689	657	638	623	603
-17.5°	1629	1219	993	868	782	718	677	651	634	619	599
-20°	1262	1045	912	816	745	694	663	644	629	613	591



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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°	1057	934	837	765	713	677	653	637	623	606	584
-25°	926	843	775	726	687	660	644	630	616	599	575
-27.5°	826	769	730	692	666	649	636	623	608	588	563
-30°	752	718	691	669	653	639	628	613	596	576	549
-32.5°	700	682	664	653	641	630	617	601	583	560	531
-35°	667	656	646	638	631	619	604	587	567	542	512
-37.5°	645	637	631	625	616	604	588	569	550	521	491
-40°	627	622	616	608	598	586	569	551	525	499	469
-42.5°	610	604	597	587	577	562	546	524	499	473	445
-45°	588	582	574	562	550	535	518	495	470	445	419
-47.5°	562	553	544	532	517	503	484	464	440	417	392
-50°	529	519	508	496	482	466	449	431	409	386	363
-52.5°	489	479	469	457	444	429	414	395	375	355	336
-55°	446	437	428	416	403	391	376	359	342	325	307
-57.5°	402	395	386	376	366	353	340	325	310	295	279
-60°	359	353	346	337	328	317	305	291	278	263	249
-62.5°	318	314	307	299	290	281	270	257	245	234	220
-65°	279	275	270	262	254	244	234	223	212	202	191
-67.5°	239	236	230	223	216	208	198	189	181	172	163
-70°	198	195	189	184	178	171	165	158	151	143	135
-72.5°	157	154	151	147	142	137	132	126	119	113	106
-75°	117	115	113	109	106	102	98	93	88	82	77
-77.5°	76	75	73	71	68	65	62	59	57	54	50
-80°	42	41	40	39	38	37	35	33	30	28	27
-82.5°	19	19	19	19	18	18	17	16	15	14	12
-85°	9	9	9	9	9	9	9	8	8	7	7
-87.5°	7	6	6	6	6	5	5	5	4	4	4
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731747
 CATALOG NUMBER: NHRS50U33BZ740-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	4	4	4	3	2	4	4	3	2
60°	10	9	9	10	9	6	6	7	7	5	4
57.5°	22	17	20	19	17	12	11	12	10	8	5
55°	38	34	35	33	28	22	19	18	14	12	8
52.5°	61	56	54	50	45	35	32	26	22	15	12
50°	90	82	76	71	63	55	46	38	30	21	18
47.5°	126	114	102	93	83	75	64	53	39	29	23
45°	162	151	133	118	106	96	84	67	53	39	29
42.5°	198	186	168	144	130	117	106	85	66	49	37
40°	236	221	204	178	154	139	124	104	80	60	46
37.5°	276	256	236	210	180	161	143	123	96	73	55
35°	315	293	267	239	209	183	163	142	113	86	64
32.5°	352	327	296	266	236	205	182	157	128	99	73
30°	384	356	326	292	261	228	200	172	142	111	82
27.5°	415	385	353	318	284	250	215	186	156	123	92
25°	446	413	379	343	307	268	230	200	169	135	102
22.5°	476	441	405	367	324	284	245	213	180	146	111
20°	502	467	428	384	340	299	260	225	192	157	121
17.5°	525	488	445	400	354	312	273	236	202	166	130
15°	541	503	460	414	367	324	284	247	212	175	137
12.5°	554	517	474	427	379	335	295	257	221	183	143
10°	565	530	486	438	389	344	305	265	227	187	148
7.5°	574	541	497	448	398	352	311	271	232	192	153
5°	580	549	506	457	405	358	317	276	237	197	158
2.5°	587	556	514	466	412	364	323	280	240	200	160
0°	591	560	519	471	415	368	326	283	242	202	162
-2.5°	594	561	521	473	419	371	328	285	244	203	164
-5°	594	560	520	472	420	372	328	287	246	205	165
-7.5°	592	558	518	470	421	373	327	287	245	204	164
-10°	587	554	514	466	418	370	326	286	245	203	164
-12.5°	583	550	509	462	414	367	324	284	244	202	163
-15°	577	544	503	455	408	363	322	282	241	200	162
-17.5°	570	538	495	447	402	358	318	279	238	198	160
-20°	563	529	484	438	394	352	314	275	235	195	158



REPORT NUMBER: P731747
 CATALOG NUMBER: NHRS50U33BZ740-VS_50

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	554	517	474	428	385	345	309	270	230	191	156
-25°	544	505	462	419	377	339	304	265	225	187	152
-27.5°	531	492	450	408	368	332	297	258	220	182	149
-30°	515	477	437	396	359	324	289	251	213	177	144
-32.5°	498	462	422	384	349	316	280	243	206	171	140
-35°	479	444	408	371	337	305	270	235	199	166	135
-37.5°	461	425	392	358	326	293	260	225	191	159	130
-40°	437	405	374	343	313	281	248	215	183	151	124
-42.5°	414	384	356	328	299	268	238	204	173	144	118
-45°	391	363	336	311	284	254	223	192	163	136	110
-47.5°	366	342	317	293	268	239	209	180	152	128	102
-50°	343	319	296	273	250	222	194	167	142	119	93
-52.5°	316	295	274	252	230	205	179	155	132	109	85
-55°	289	271	251	230	209	187	163	141	120	99	77
-57.5°	262	245	228	209	188	169	148	128	108	88	67
-60°	235	220	204	186	168	150	133	114	95	76	59
-62.5°	208	195	180	165	149	133	116	100	82	65	49
-65°	180	169	158	143	130	115	100	85	69	54	40
-67.5°	154	144	135	123	109	96	83	70	55	42	32
-70°	127	119	110	99	87	76	65	54	41	33	24
-72.5°	100	92	83	75	66	57	47	38	31	24	16
-75°	71	65	59	52	45	38	32	27	21	15	12
-77.5°	46	41	36	33	29	25	20	15	12	11	9
-80°	25	23	21	19	15	12	11	10	9	7	5
-82.5°	11	11	10	10	9	8	7	6	5	4	3
-85°	7	7	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: P731747
 CATALOG NUMBER: NHRS50U33BZ740-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°	9	6	4	2	1	1	0
52.5°	11	8	5	3	2	1	0
50°	14	11	7	3	2	1	0
47.5°	17	13	8	3	2	1	0
45°	22	16	10	4	2	1	0
42.5°	28	19	11	5	3	1	0
40°	34	22	13	6	3	1	0
37.5°	40	25	15	7	3	1	0
35°	46	29	18	9	3	1	0
32.5°	53	35	20	10	4	1	0
30°	60	39	22	11	4	1	0
27.5°	67	44	25	12	4	1	0
25°	74	49	28	13	4	1	0
22.5°	81	54	30	14	5	1	0
20°	88	59	33	15	5	1	0
17.5°	94	64	35	16	5	1	0
15°	99	68	38	17	6	1	0
12.5°	105	73	40	18	6	1	0
10°	110	77	42	19	6	1	0
7.5°	115	81	46	20	6	1	0
5°	120	85	47	20	6	1	0
2.5°	123	88	48	21	7	1	0
0°	126	90	50	21	7	1	0
-2.5°	128	92	51	22	7	1	0
-5°	130	93	52	22	7	1	0
-7.5°	129	93	53	23	7	1	0
-10°	129	94	53	23	7	1	0
-12.5°	129	93	53	23	7	1	0
-15°	128	93	53	23	7	1	0
-17.5°	127	92	52	23	7	1	0
-20°	126	91	51	22	7	1	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	124	89	50	22	7	1	0
-25°	121	85	48	22	7	1	0
-27.5°	118	82	47	21	7	1	0
-30°	115	78	45	20	7	1	0
-32.5°	110	74	42	20	6	1	0
-35°	106	70	40	19	6	1	0
-37.5°	100	65	37	18	6	1	0
-40°	93	61	33	16	6	1	0
-42.5°	87	57	31	15	5	1	0
-45°	80	53	29	13	5	1	0
-47.5°	73	48	27	11	5	1	0
-50°	67	42	24	10	4	1	0
-52.5°	61	37	21	10	4	1	0
-55°	54	33	18	9	3	1	0
-57.5°	47	29	15	7	3	1	0
-60°	40	25	12	7	2	1	0
-62.5°	34	21	11	6	2	1	0
-65°	28	16	9	5	2	1	0
-67.5°	22	12	8	4	2	1	0
-70°	15	10	6	3	2	1	0
-72.5°	12	8	5	2	1	1	0
-75°	10	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)