

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: P731749

Luminaire Tested: **NHRS50U33BZ740-VS**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731749
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50U33BZ740-VS
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 3 AT 4000K WITH VISOR
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

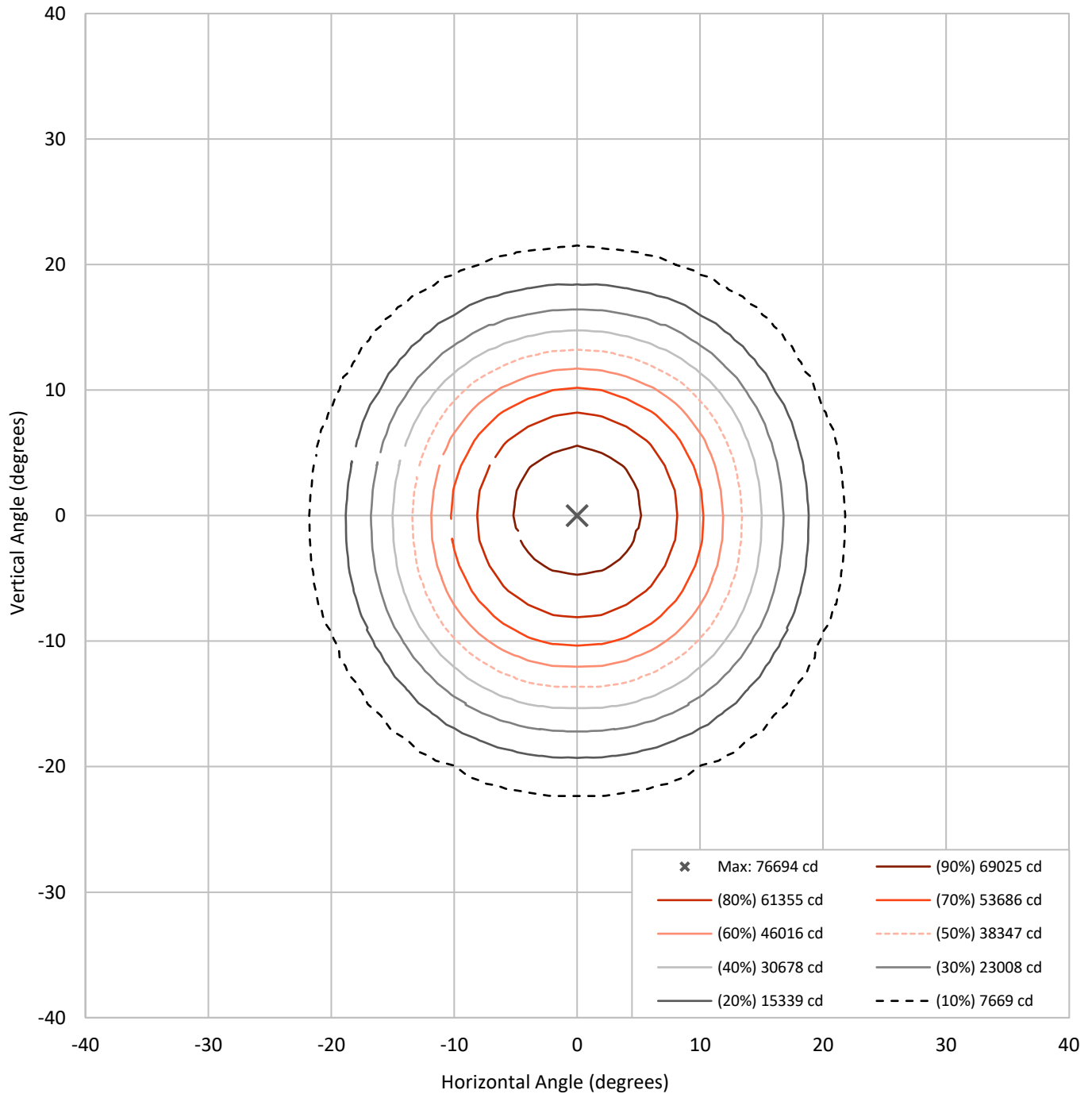
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	19620.8 lumens	Max Intensity:	76694 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.2 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:	9542.5 lumens	Field Lumens:	15449.5 lumens
Beam Efficiency:	48.6%	Field Efficiency:	78.7%
Input Watts (W):	149.5		
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





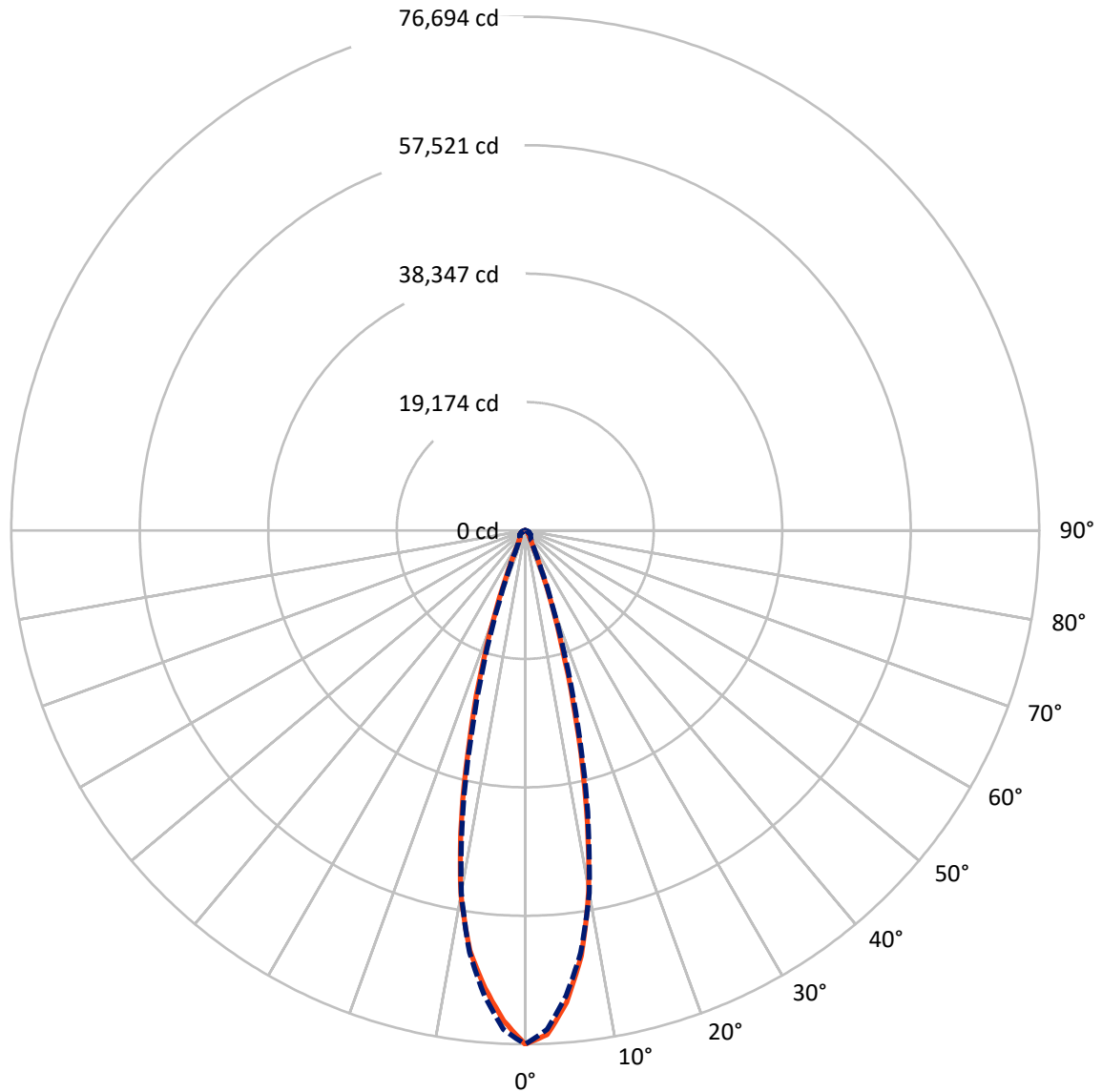
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Lumen Table

90	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0							
80	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0							
70	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2						
60		0.5	1.1	1.9	2.6	3.5	4.2	4.5	4.5	4.2	3.5	2.6		1.9	1.1	0.5			
50	1.2	1.7	4.0	7.1	10.7	13.9	16.1	17.4	17.4	16.1	13.9	10.7	7.1	4.0	1.7	1.2			
40		3.4	7.9	13.9	20.1	25.1	29.8	33.6	33.6	29.8	25.1	20.1	13.9	7.9	3.4				
30	3.0	4.9	11.3	19.4	26.9	37.4	63.5	112.7	112.7	63.5	37.4	26.9	19.4	11.3	4.9	3.0			
20		6.1	13.7	22.9	32.2	63.9	307.7	805.6	805.6	307.7	63.9	32.2	22.9	13.7	6.1				
10	4.1	6.8	15.1	24.4	35.6	114.4	804.9	1868.9	1868.9	804.9	114.4	35.6	24.4	15.1	6.8	4.1			
0		7.1	15.5	24.9	35.8	117.9	830.0	1868.0	1868.0	830.0	117.9	35.8	24.9	15.5	7.1				
-10	4.1	6.9	15.0	24.3	33.2	67.3	348.3	886.1	886.1	348.3	67.3	33.2	24.3	15.0	6.9	4.1			
-20		6.5	13.9	23.1	30.5	41.6	73.8	141.4	141.4	73.8	41.6	30.5	23.1	13.9	6.5				
-30	3.1	5.8	12.3	20.7	28.2	33.8	39.5	44.6	44.6	39.5	33.8	28.2	20.7	12.3	5.8	3.1			
-40		4.8	10.2	17.0	24.1	29.5	33.0	35.2	35.2	33.0	29.5	24.1	17.0	10.2	4.8				
-50	1.4	3.5	7.6	12.5	17.7	22.2	25.3	27.3	27.3	25.3	22.2	17.7	12.5	7.6	3.5	1.4			
-60		2.1	4.7	7.8	11.0	13.9	15.7	16.7	16.7	15.7	13.9	11.0	7.8	4.7	2.1				
-70	0.2	2.8	8.7	14.0	15.7	14.0	8.7	2.8	0.2							0.2			
-80		0.2	2.8	8.7	14.0	15.7	14.0	8.7	2.8	0.2									
-90	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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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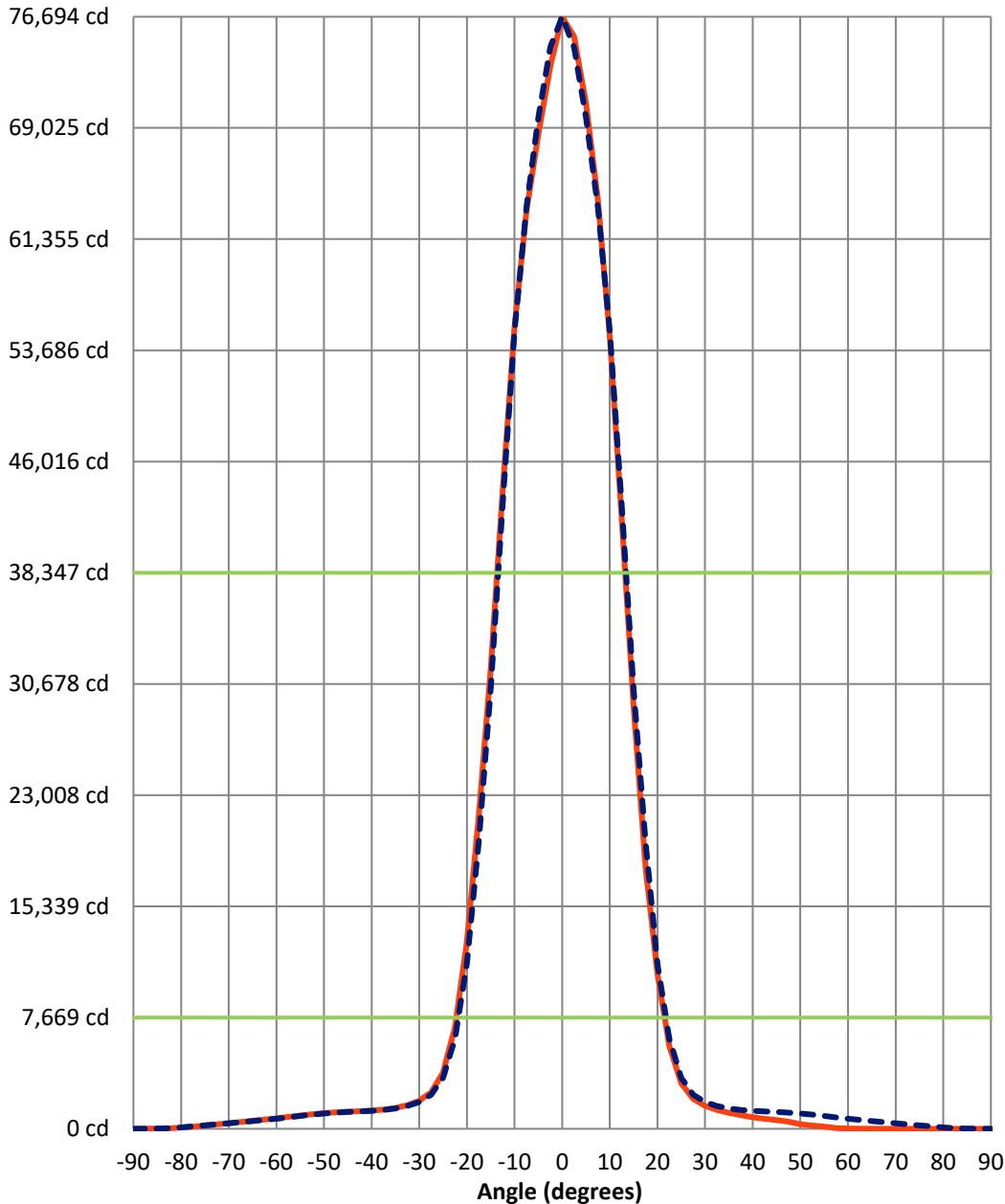
Luminous Intensity Polar Plot



— 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: 9542.5
 Efficiency: 48.6%

Field:
 H Angle: 43.6°
 V Angle: 43.7°
 Lumens: 15449.5
 Efficiency: 78.7%

Spill:
 Lumens: 4171.3
 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	2	2	1	1	1	1	1
70°	0	1	1	1	2	2	2	2	2	2	2
67.5°	0	1	1	2	3	3	3	2	2	3	2
65°	0	1	1	2	3	4	4	3	4	5	4
62.5°	0	1	1	3	4	5	5	4	6	7	8
60°	0	1	1	3	4	7	7	7	9	13	13
57.5°	0	1	2	4	6	10	11	10	15	19	22
55°	0	1	2	4	8	12	16	15	22	27	34
52.5°	0	1	3	5	10	15	20	23	29	41	49
50°	0	1	3	5	13	20	26	33	39	57	72
47.5°	0	1	4	6	15	25	32	44	54	74	99
45°	0	1	4	8	18	30	42	55	73	99	127
42.5°	0	1	5	10	20	36	53	70	92	125	161
40°	0	1	5	12	24	41	64	87	113	151	196
37.5°	0	1	6	14	28	47	75	103	138	181	232
35°	0	1	6	16	33	55	87	120	162	212	267
32.5°	0	1	7	18	37	65	100	137	186	241	296
30°	0	2	7	20	42	74	113	154	209	268	324
27.5°	0	2	8	22	47	83	127	173	232	294	351
25°	0	2	8	24	52	93	140	192	254	318	377
22.5°	0	2	9	26	57	102	153	210	275	340	401
20°	0	2	10	28	62	111	165	228	295	361	424
17.5°	0	2	10	30	66	120	177	244	313	381	445
15°	0	2	11	32	71	129	187	258	330	399	465
12.5°	0	2	11	33	76	137	198	269	344	416	484
10°	0	2	12	35	80	145	207	279	353	428	500
7.5°	0	2	12	37	86	152	216	288	362	437	510
5°	0	2	12	38	88	160	226	297	372	447	520
2.5°	0	2	13	39	91	165	232	301	376	452	528
0°	0	2	13	40	94	170	238	306	380	456	534
-2.5°	0	2	13	41	96	173	241	309	383	460	538
-5°	0	2	14	42	98	176	244	311	386	464	540
-7.5°	0	2	14	43	100	176	243	309	384	462	540
-10°	0	2	14	43	99	177	243	309	383	461	539
-12.5°	0	2	14	43	99	176	243	308	381	459	536
-15°	0	2	14	43	99	175	242	305	377	455	532
-17.5°	0	2	14	43	98	173	240	302	373	449	526
-20°	0	2	14	42	96	171	237	298	367	442	518



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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	2	14	42	94	167	233	293	360	434	509
-25°	0	2	14	41	91	161	228	287	352	424	499
-27.5°	0	2	13	40	88	155	222	280	343	414	487
-30°	0	2	13	38	84	147	216	271	334	402	473
-32.5°	0	2	12	37	80	140	208	263	323	389	458
-35°	0	2	12	35	75	131	199	254	312	375	442
-37.5°	0	2	11	33	69	123	188	244	299	360	424
-40°	0	2	11	30	63	115	176	233	285	344	405
-42.5°	0	2	10	28	58	107	164	222	271	326	384
-45°	0	2	9	25	54	99	151	208	257	307	361
-47.5°	0	2	9	21	50	90	137	193	242	287	339
-50°	0	2	8	19	45	80	126	176	225	268	314
-52.5°	0	2	7	18	40	70	114	160	206	248	292
-55°	0	2	6	16	34	63	101	145	186	227	266
-57.5°	0	2	5	14	29	55	88	127	165	204	241
-60°	0	1	4	13	23	47	76	111	144	179	215
-62.5°	0	1	3	11	20	39	64	93	123	155	188
-65°	0	1	3	9	17	30	53	76	102	130	160
-67.5°	0	1	3	7	15	23	41	61	79	104	131
-70°	0	1	3	5	12	19	29	46	62	78	101
-72.5°	0	1	2	4	9	15	23	31	45	59	72
-75°	0	1	2	3	6	11	18	23	28	39	50
-77.5°	0	1	2	3	4	7	12	17	20	23	29
-80°	0	1	1	2	3	5	7	10	14	16	19
-82.5°	0	0	1	2	3	4	5	6	7	9	12
-85°	0	0	1	1	2	2	3	4	4	5	6
-87.5°	0	0	0	1	1	1	2	2	2	3	3
-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	2	2	2	1	1	0	1	1	1	1
65°	2	3	4	4	1	2	3	3	2	2	2
62.5°	4	6	7	8	7	6	8	9	6	7	8
60°	11	11	16	19	16	16	19	22	20	17	23
57.5°	20	22	32	36	37	32	41	43	47	46	49
55°	36	41	53	63	65	64	71	81	85	85	86
52.5°	60	66	84	95	101	105	115	128	137	136	142
50°	87	103	118	133	144	155	169	189	199	205	218
47.5°	121	141	157	175	193	215	238	254	268	289	321
45°	158	181	199	222	250	284	306	322	346	377	410
42.5°	199	221	245	271	317	351	374	395	427	476	504
40°	233	261	291	335	384	416	445	474	530	572	600
37.5°	270	303	339	396	445	483	521	566	621	669	694
35°	307	344	393	451	504	552	594	647	700	748	782
32.5°	343	387	444	502	558	616	663	716	772	821	857
30°	377	429	492	551	614	671	724	781	844	888	921
27.5°	406	471	536	600	666	726	783	849	908	951	983
25°	434	505	578	647	715	779	841	912	966	1008	1041
22.5°	462	535	610	692	763	831	897	962	1015	1063	1095
20°	489	563	640	724	807	880	946	1007	1056	1098	1139
17.5°	514	588	667	753	838	920	990	1053	1091	1128	1169
15°	536	611	692	780	867	948	1020	1081	1119	1154	1195
12.5°	556	631	714	804	893	975	1044	1098	1138	1176	1226
10°	574	648	733	825	916	998	1064	1114	1153	1193	1250
7.5°	587	663	750	844	936	1019	1081	1128	1166	1208	1269
5°	598	675	763	861	953	1035	1094	1139	1177	1221	1283
2.5°	608	686	776	878	969	1048	1106	1153	1189	1232	1294
0°	615	694	783	888	978	1055	1114	1162	1197	1238	1299
-2.5°	618	700	790	891	982	1058	1119	1165	1199	1239	1299
-5°	618	701	792	889	980	1056	1120	1164	1198	1235	1292
-7.5°	617	702	793	886	976	1052	1115	1160	1193	1229	1284
-10°	614	698	788	879	969	1045	1107	1154	1188	1221	1272
-12.5°	611	692	780	870	959	1036	1098	1147	1182	1212	1256
-15°	606	684	769	858	947	1026	1087	1137	1175	1203	1238
-17.5°	600	675	757	843	932	1014	1075	1129	1166	1194	1227
-20°	592	664	742	826	913	997	1061	1114	1155	1185	1213



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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°	583	651	726	807	893	975	1045	1100	1143	1175	1200
-25°	572	639	710	789	871	952	1025	1084	1128	1161	1188
-27.5°	559	626	694	768	848	927	1000	1061	1108	1145	1175
-30°	544	611	676	746	823	899	971	1034	1085	1123	1156
-32.5°	527	596	657	724	795	870	939	1001	1055	1099	1133
-35°	509	574	636	700	769	837	903	965	1022	1068	1106
-37.5°	489	552	614	674	738	800	868	926	982	1036	1073
-40°	467	530	589	647	705	763	823	883	940	990	1038
-42.5°	448	505	563	618	670	724	781	838	891	941	988
-45°	420	479	536	586	634	684	736	790	839	886	933
-47.5°	393	450	505	552	597	644	690	738	785	830	875
-50°	365	419	471	514	558	601	646	685	727	771	812
-52.5°	337	386	433	475	516	556	596	633	669	706	745
-55°	307	352	394	434	473	510	545	579	612	645	677
-57.5°	279	318	355	393	429	462	494	525	555	584	612
-60°	250	283	317	351	384	415	442	469	496	523	549
-62.5°	219	250	280	310	340	367	391	414	440	461	485
-65°	189	216	244	270	298	318	340	360	380	400	421
-67.5°	157	180	206	232	254	272	290	308	324	341	357
-70°	123	143	164	186	208	225	240	254	270	284	298
-72.5°	89	107	124	141	157	173	188	200	212	225	237
-75°	61	72	85	98	111	122	133	145	155	165	175
-77.5°	38	47	55	62	68	77	86	94	101	107	111
-80°	21	23	29	35	40	44	47	50	52	57	62
-82.5°	14	15	17	18	19	20	21	23	26	29	31
-85°	7	8	10	11	12	13	13	14	14	15	15
-87.5°	3	4	5	5	6	6	7	7	8	8	9
-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°	2	1	1	1	0	1	1	1	1	1	1
62.5°	7	5	6	7	6	5	7	7	7	6	6
60°	24	20	19	22	22	19	21	22	21	20	21
57.5°	51	47	45	52	53	47	50	59	62	61	61
55°	92	98	98	104	112	119	125	129	132	134	140
52.5°	155	166	167	174	193	199	196	209	214	213	216
50°	242	253	266	281	294	302	303	312	319	320	322
47.5°	337	355	373	393	407	418	433	446	448	452	461
45°	427	449	474	495	510	525	536	550	559	568	575
42.5°	516	546	578	593	596	618	637	644	657	664	666
40°	623	656	683	696	710	733	744	745	754	768	772
37.5°	726	764	791	809	824	843	853	867	885	897	906
35°	817	850	885	898	918	938	959	981	1004	1028	1047
32.5°	888	921	949	972	995	1025	1057	1096	1130	1170	1211
30°	948	983	1014	1041	1078	1126	1178	1241	1305	1364	1433
27.5°	1012	1046	1083	1126	1183	1251	1346	1436	1546	1629	1771
25°	1073	1111	1163	1229	1311	1427	1562	1701	1904	2084	2392
22.5°	1129	1179	1250	1340	1469	1635	1835	2108	2514	3008	3652
20°	1182	1246	1338	1471	1644	1865	2211	2796	3541	4831	6130
17.5°	1229	1316	1431	1591	1812	2172	2822	3855	5511	8154	10951
15°	1266	1370	1520	1725	2044	2611	3605	5524	8968	13211	18173
12.5°	1305	1423	1594	1835	2260	3156	4971	8216	13228	19918	26627
10°	1339	1474	1674	1997	2617	3911	6445	11162	18361	27068	35477
7.5°	1364	1513	1740	2132	2968	4817	8471	14711	23376	33415	43699
5°	1382	1541	1790	2253	3255	5500	9967	17445	27280	38672	50355
2.5°	1397	1565	1834	2340	3447	5927	10924	19090	29527	41827	53858
0°	1402	1572	1846	2355	3526	6213	11402	19827	30323	43014	54968
-2.5°	1402	1567	1849	2365	3449	6099	11236	19580	29790	42587	54309
-5°	1390	1547	1807	2286	3313	5694	10574	18366	28109	39878	50986
-7.5°	1376	1523	1757	2168	3061	5056	9125	15806	24735	34849	45382
-10°	1355	1488	1693	2035	2715	4166	7052	12399	20101	28939	37634
-12.5°	1328	1442	1615	1868	2338	3364	5477	9267	14982	22201	29274
-15°	1298	1396	1545	1762	2118	2773	3928	6303	10460	15510	21019
-17.5°	1275	1354	1473	1636	1872	2297	3071	4364	6533	9998	13504
-20°	1250	1308	1404	1537	1718	1970	2379	3104	4022	5849	7554



REPORT NUMBER: P731749
 CATALOG NUMBER: NHRS50U33BZ740-VS

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1231	1276	1344	1441	1577	1761	1992	2332	2827	3476	4395
-25°	1213	1244	1294	1368	1461	1588	1745	1926	2186	2442	2872
-27.5°	1198	1224	1255	1305	1375	1449	1557	1671	1815	1938	2136
-30°	1183	1205	1230	1260	1303	1354	1417	1495	1576	1655	1755
-32.5°	1163	1188	1208	1230	1251	1285	1320	1370	1420	1473	1527
-35°	1139	1166	1189	1203	1218	1236	1257	1284	1309	1345	1377
-37.5°	1108	1139	1161	1177	1189	1201	1215	1228	1241	1264	1282
-40°	1072	1105	1127	1146	1160	1172	1182	1191	1201	1213	1224
-42.5°	1029	1060	1087	1107	1125	1139	1149	1159	1169	1177	1184
-45°	977	1008	1037	1060	1082	1096	1109	1124	1132	1141	1149
-47.5°	912	947	975	1002	1025	1043	1059	1073	1085	1095	1106
-50°	846	879	908	934	957	978	997	1012	1024	1034	1047
-52.5°	781	808	836	862	884	903	922	936	948	958	971
-55°	708	736	760	784	806	824	840	853	864	873	887
-57.5°	640	666	690	709	727	744	757	768	778	785	796
-60°	574	598	618	636	652	665	676	685	692	698	706
-62.5°	508	529	547	564	579	592	600	606	611	615	621
-65°	441	460	478	493	508	519	526	532	535	539	543
-67.5°	374	391	407	421	434	444	451	456	460	464	467
-70°	310	323	335	346	357	367	373	378	381	385	388
-72.5°	248	258	268	277	285	291	296	300	303	306	308
-75°	185	193	200	206	212	216	220	223	226	228	231
-77.5°	116	123	129	134	138	141	143	145	145	146	147
-80°	65	69	72	74	75	77	79	80	80	82	83
-82.5°	32	34	34	35	35	36	36	35	35	36	36
-85°	16	16	17	17	17	17	17	18	18	18	18
-87.5°	10	10	11	11	12	12	13	13	14	14	14
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731749
 CATALOG NUMBER: NHRS50U33BZ740-VS

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°	6	5	5	5	5	5	6	6	6	7	7
60°	21	21	21	20	21	21	21	21	20	21	22
57.5°	57	50	49	49	49	50	57	61	61	62	59
55°	144	146	149	148	149	146	144	140	134	132	129
52.5°	219	220	224	226	224	220	219	216	213	214	209
50°	320	312	312	315	312	312	320	322	320	319	312
47.5°	474	483	493	490	493	483	474	461	452	448	446
45°	585	591	598	602	598	591	585	575	568	559	550
42.5°	675	679	684	688	684	679	675	666	664	657	644
40°	783	789	794	793	794	789	783	772	768	754	745
37.5°	919	930	939	944	939	930	919	906	897	885	867
35°	1067	1086	1103	1104	1103	1086	1067	1047	1028	1004	981
32.5°	1242	1272	1297	1299	1297	1272	1242	1211	1170	1130	1096
30°	1483	1526	1558	1582	1558	1526	1483	1433	1364	1305	1241
27.5°	1876	1969	2033	2068	2033	1969	1876	1771	1629	1546	1436
25°	2676	2883	3007	3141	3007	2883	2676	2392	2084	1904	1701
22.5°	4416	4968	5301	5718	5301	4968	4416	3652	3008	2514	2108
20°	8041	9391	10051	10709	10051	9391	8041	6130	4831	3541	2796
17.5°	14328	16520	18244	18079	18244	16520	14328	10951	8154	5511	3855
15°	22900	26270	28398	29132	28398	26270	22900	18173	13211	8968	5524
12.5°	32765	37895	41386	42099	41386	37895	32765	26627	19918	13228	8216
10°	43778	49554	53404	54607	53404	49554	43778	35477	27068	18361	11162
7.5°	53078	59260	62652	64056	62652	59260	53078	43699	33415	23376	14711
5°	59245	65760	69059	70708	69059	65760	59245	50355	38672	27280	17445
2.5°	62820	69014	73615	75317	73615	69014	62820	53858	41827	29527	19090
0°	63539	69744	74569	76694	74569	69744	63539	54968	43014	30323	19827
-2.5°	62769	68248	72153	73259	72153	68248	62769	54309	42587	29790	19580
-5°	59721	65035	67907	68583	67907	65035	59721	50986	39878	28109	18366
-7.5°	53954	59605	62618	63250	62618	59605	53954	45382	34849	24735	15806
-10°	45642	51437	54556	55291	54556	51437	45642	37634	28939	20101	12399
-12.5°	35645	40759	43684	43941	43684	40759	35645	29274	22201	14982	9267
-15°	26017	29757	31866	31727	31866	29757	26017	21019	15510	10460	6303
-17.5°	17073	19700	21142	21608	21142	19700	17073	13504	9998	6533	4364
-20°	9979	11700	12803	12919	12803	11700	9979	7554	5849	4022	3104



REPORT NUMBER: P731749
 CATALOG NUMBER: NHRS50U33BZ740-VS

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5552	6449	7025	7017	7025	6449	5552	4395	3476	2827	2332
-25°	3310	3648	3854	3891	3854	3648	3310	2872	2442	2186	1926
-27.5°	2296	2427	2517	2516	2517	2427	2296	2136	1938	1815	1671
-30°	1833	1897	1953	1936	1953	1897	1833	1755	1655	1576	1495
-32.5°	1571	1604	1630	1629	1630	1604	1571	1527	1473	1420	1370
-35°	1403	1425	1442	1438	1442	1425	1403	1377	1345	1309	1284
-37.5°	1297	1309	1320	1322	1320	1309	1297	1282	1264	1241	1228
-40°	1236	1245	1253	1256	1253	1245	1236	1224	1213	1201	1191
-42.5°	1194	1203	1211	1214	1211	1203	1194	1184	1177	1169	1159
-45°	1160	1169	1176	1180	1176	1169	1160	1149	1141	1132	1124
-47.5°	1118	1129	1137	1139	1137	1129	1118	1106	1095	1085	1073
-50°	1060	1070	1078	1078	1078	1070	1060	1047	1034	1024	1012
-52.5°	983	991	998	1001	998	991	983	971	958	948	936
-55°	898	907	914	915	914	907	898	887	873	864	853
-57.5°	805	811	818	820	818	811	805	796	785	778	768
-60°	712	717	721	720	721	717	712	706	698	692	685
-62.5°	625	628	633	635	633	628	625	621	615	611	606
-65°	547	548	549	547	549	548	547	543	539	535	532
-67.5°	469	472	471	469	471	472	469	467	464	460	456
-70°	390	392	390	387	390	392	390	388	385	381	378
-72.5°	310	312	311	309	311	312	310	308	306	303	300
-75°	232	234	232	229	232	234	232	231	228	226	223
-77.5°	147	147	145	143	145	147	147	147	146	145	145
-80°	85	84	83	82	83	84	85	83	82	80	80
-82.5°	37	37	37	36	37	37	37	36	36	35	35
-85°	19	19	19	19	19	19	19	18	18	18	18
-87.5°	15	15	15	15	15	15	15	14	14	14	13
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731749
 CATALOG NUMBER: NHRS50U33BZ740-VS

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	2	2	2	2	3
62.5°	7	5	6	7	6	5	7	8	7	6	9
60°	21	19	22	22	19	20	24	23	17	20	22
57.5°	50	47	53	52	45	47	51	49	46	47	43
55°	125	119	112	104	98	98	92	86	85	85	81
52.5°	196	199	193	174	167	166	155	142	136	137	128
50°	303	302	294	281	266	253	242	218	205	199	189
47.5°	433	418	407	393	373	355	337	321	289	268	254
45°	536	525	510	495	474	449	427	410	377	346	322
42.5°	637	618	596	593	578	546	516	504	476	427	395
40°	744	733	710	696	683	656	623	600	572	530	474
37.5°	853	843	824	809	791	764	726	694	669	621	566
35°	959	938	918	898	885	850	817	782	748	700	647
32.5°	1057	1025	995	972	949	921	888	857	821	772	716
30°	1178	1126	1078	1041	1014	983	948	921	888	844	781
27.5°	1346	1251	1183	1126	1083	1046	1012	983	951	908	849
25°	1562	1427	1311	1229	1163	1111	1073	1041	1008	966	912
22.5°	1835	1635	1469	1340	1250	1179	1129	1095	1063	1015	962
20°	2211	1865	1644	1471	1338	1246	1182	1139	1098	1056	1007
17.5°	2822	2172	1812	1591	1431	1316	1229	1169	1128	1091	1053
15°	3605	2611	2044	1725	1520	1370	1266	1195	1154	1119	1081
12.5°	4971	3156	2260	1835	1594	1423	1305	1226	1176	1138	1098
10°	6445	3911	2617	1997	1674	1474	1339	1250	1193	1153	1114
7.5°	8471	4817	2968	2132	1740	1513	1364	1269	1208	1166	1128
5°	9967	5500	3255	2253	1790	1541	1382	1283	1221	1177	1139
2.5°	10924	5927	3447	2340	1834	1565	1397	1294	1232	1189	1153
0°	11402	6213	3526	2355	1846	1572	1402	1299	1238	1197	1162
-2.5°	11236	6099	3449	2365	1849	1567	1402	1299	1239	1199	1165
-5°	10574	5694	3313	2286	1807	1547	1390	1292	1235	1198	1164
-7.5°	9125	5056	3061	2168	1757	1523	1376	1284	1229	1193	1160
-10°	7052	4166	2715	2035	1693	1488	1355	1272	1221	1188	1154
-12.5°	5477	3364	2338	1868	1615	1442	1328	1256	1212	1182	1147
-15°	3928	2773	2118	1762	1545	1396	1298	1238	1203	1175	1137
-17.5°	3071	2297	1872	1636	1473	1354	1275	1227	1194	1166	1129
-20°	2379	1970	1718	1537	1404	1308	1250	1213	1185	1155	1114



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 CATALOG NUMBER: NHRS50U33BZ740-VS

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1992	1761	1577	1441	1344	1276	1231	1200	1175	1143	1100
-25°	1745	1588	1461	1368	1294	1244	1213	1188	1161	1128	1084
-27.5°	1557	1449	1375	1305	1255	1224	1198	1175	1145	1108	1061
-30°	1417	1354	1303	1260	1230	1205	1183	1156	1123	1085	1034
-32.5°	1320	1285	1251	1230	1208	1188	1163	1133	1099	1055	1001
-35°	1257	1236	1218	1203	1189	1166	1139	1106	1068	1022	965
-37.5°	1215	1201	1189	1177	1161	1139	1108	1073	1036	982	926
-40°	1182	1172	1160	1146	1127	1105	1072	1038	990	940	883
-42.5°	1149	1139	1125	1107	1087	1060	1029	988	941	891	838
-45°	1109	1096	1082	1060	1037	1008	977	933	886	839	790
-47.5°	1059	1043	1025	1002	975	947	912	875	830	785	738
-50°	997	978	957	934	908	879	846	812	771	727	685
-52.5°	922	903	884	862	836	808	781	745	706	669	633
-55°	840	824	806	784	760	736	708	677	645	612	579
-57.5°	757	744	727	709	690	666	640	612	584	555	525
-60°	676	665	652	636	618	598	574	549	523	496	469
-62.5°	600	592	579	564	547	529	508	485	461	440	414
-65°	526	519	508	493	478	460	441	421	400	380	360
-67.5°	451	444	434	421	407	391	374	357	341	324	308
-70°	373	367	357	346	335	323	310	298	284	270	254
-72.5°	296	291	285	277	268	258	248	237	225	212	200
-75°	220	216	212	206	200	193	185	175	165	155	145
-77.5°	143	141	138	134	129	123	116	111	107	101	94
-80°	79	77	75	74	72	69	65	62	57	52	50
-82.5°	36	36	35	35	34	34	32	31	29	26	23
-85°	17	17	17	17	17	16	16	15	15	14	14
-87.5°	13	12	12	11	11	10	10	9	8	8	7
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731749
 CATALOG NUMBER: NHRS50U33BZ740-VS

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	2	2	2	2
67.5°	0	1	1	2	2	2	1	2	3	2	2
65°	3	2	1	4	4	3	2	4	5	4	3
62.5°	8	6	7	8	7	6	4	8	7	6	4
60°	19	16	16	19	16	11	11	13	13	9	7
57.5°	41	32	37	36	32	22	20	22	19	15	10
55°	71	64	65	63	53	41	36	34	27	22	15
52.5°	115	105	101	95	84	66	60	49	41	29	23
50°	169	155	144	133	118	103	87	72	57	39	33
47.5°	238	215	193	175	157	141	121	99	74	54	44
45°	306	284	250	222	199	181	158	127	99	73	55
42.5°	374	351	317	271	245	221	199	161	125	92	70
40°	445	416	384	335	291	261	233	196	151	113	87
37.5°	521	483	445	396	339	303	270	232	181	138	103
35°	594	552	504	451	393	344	307	267	212	162	120
32.5°	663	616	558	502	444	387	343	296	241	186	137
30°	724	671	614	551	492	429	377	324	268	209	154
27.5°	783	726	666	600	536	471	406	351	294	232	173
25°	841	779	715	647	578	505	434	377	318	254	192
22.5°	897	831	763	692	610	535	462	401	340	275	210
20°	946	880	807	724	640	563	489	424	361	295	228
17.5°	990	920	838	753	667	588	514	445	381	313	244
15°	1020	948	867	780	692	611	536	465	399	330	258
12.5°	1044	975	893	804	714	631	556	484	416	344	269
10°	1064	998	916	825	733	648	574	500	428	353	279
7.5°	1081	1019	936	844	750	663	587	510	437	362	288
5°	1094	1035	953	861	763	675	598	520	447	372	297
2.5°	1106	1048	969	878	776	686	608	528	452	376	301
0°	1114	1055	978	888	783	694	615	534	456	380	306
-2.5°	1119	1058	982	891	790	700	618	538	460	383	309
-5°	1120	1056	980	889	792	701	618	540	464	386	311
-7.5°	1115	1052	976	886	793	702	617	540	462	384	309
-10°	1107	1045	969	879	788	698	614	539	461	383	309
-12.5°	1098	1036	959	870	780	692	611	536	459	381	308
-15°	1087	1026	947	858	769	684	606	532	455	377	305
-17.5°	1075	1014	932	843	757	675	600	526	449	373	302
-20°	1061	997	913	826	742	664	592	518	442	367	298



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 CATALOG NUMBER: NHRS50U33BZ740-VS

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1045	975	893	807	726	651	583	509	434	360	293
-25°	1025	952	871	789	710	639	572	499	424	352	287
-27.5°	1000	927	848	768	694	626	559	487	414	343	280
-30°	971	899	823	746	676	611	544	473	402	334	271
-32.5°	939	870	795	724	657	596	527	458	389	323	263
-35°	903	837	769	700	636	574	509	442	375	312	254
-37.5°	868	800	738	674	614	552	489	424	360	299	244
-40°	823	763	705	647	589	530	467	405	344	285	233
-42.5°	781	724	670	618	563	505	448	384	326	271	222
-45°	736	684	634	586	536	479	420	361	307	257	208
-47.5°	690	644	597	552	505	450	393	339	287	242	193
-50°	646	601	558	514	471	419	365	314	268	225	176
-52.5°	596	556	516	475	433	386	337	292	248	206	160
-55°	545	510	473	434	394	352	307	266	227	186	145
-57.5°	494	462	429	393	355	318	279	241	204	165	127
-60°	442	415	384	351	317	283	250	215	179	144	111
-62.5°	391	367	340	310	280	250	219	188	155	123	93
-65°	340	318	298	270	244	216	189	160	130	102	76
-67.5°	290	272	254	232	206	180	157	131	104	79	61
-70°	240	225	208	186	164	143	123	101	78	62	46
-72.5°	188	173	157	141	124	107	89	72	59	45	31
-75°	133	122	111	98	85	72	61	50	39	28	23
-77.5°	86	77	68	62	55	47	38	29	23	20	17
-80°	47	44	40	35	29	23	21	19	16	14	10
-82.5°	21	20	19	18	17	15	14	12	9	7	6
-85°	13	13	12	11	10	8	7	6	5	4	4
-87.5°	7	6	6	5	5	4	3	3	3	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



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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	2	2	1	1	0	0
70°	2	2	2	1	1	1	0
67.5°	3	3	3	2	1	1	0
65°	4	4	3	2	1	1	0
62.5°	5	5	4	3	1	1	0
60°	7	7	4	3	1	1	0
57.5°	11	10	6	4	2	1	0
55°	16	12	8	4	2	1	0
52.5°	20	15	10	5	3	1	0
50°	26	20	13	5	3	1	0
47.5°	32	25	15	6	4	1	0
45°	42	30	18	8	4	1	0
42.5°	53	36	20	10	5	1	0
40°	64	41	24	12	5	1	0
37.5°	75	47	28	14	6	1	0
35°	87	55	33	16	6	1	0
32.5°	100	65	37	18	7	1	0
30°	113	74	42	20	7	2	0
27.5°	127	83	47	22	8	2	0
25°	140	93	52	24	8	2	0
22.5°	153	102	57	26	9	2	0
20°	165	111	62	28	10	2	0
17.5°	177	120	66	30	10	2	0
15°	187	129	71	32	11	2	0
12.5°	198	137	76	33	11	2	0
10°	207	145	80	35	12	2	0
7.5°	216	152	86	37	12	2	0
5°	226	160	88	38	12	2	0
2.5°	232	165	91	39	13	2	0
0°	238	170	94	40	13	2	0
-2.5°	241	173	96	41	13	2	0
-5°	244	176	98	42	14	2	0
-7.5°	243	176	100	43	14	2	0
-10°	243	177	99	43	14	2	0
-12.5°	243	176	99	43	14	2	0
-15°	242	175	99	43	14	2	0
-17.5°	240	173	98	43	14	2	0
-20°	237	171	96	42	14	2	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	233	167	94	42	14	2	0
-25°	228	161	91	41	14	2	0
-27.5°	222	155	88	40	13	2	0
-30°	216	147	84	38	13	2	0
-32.5°	208	140	80	37	12	2	0
-35°	199	131	75	35	12	2	0
-37.5°	188	123	69	33	11	2	0
-40°	176	115	63	30	11	2	0
-42.5°	164	107	58	28	10	2	0
-45°	151	99	54	25	9	2	0
-47.5°	137	90	50	21	9	2	0
-50°	126	80	45	19	8	2	0
-52.5°	114	70	40	18	7	2	0
-55°	101	63	34	16	6	2	0
-57.5°	88	55	29	14	5	2	0
-60°	76	47	23	13	4	1	0
-62.5°	64	39	20	11	3	1	0
-65°	53	30	17	9	3	1	0
-67.5°	41	23	15	7	3	1	0
-70°	29	19	12	5	3	1	0
-72.5°	23	15	9	4	2	1	0
-75°	18	11	6	3	2	1	0
-77.5°	12	7	4	3	2	1	0
-80°	7	5	3	2	1	1	0
-82.5°	5	4	3	2	1	0	0
-85°	3	2	2	1	1	0	0
-87.5°	2	1	1	1	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)