

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: P731756

Luminaire Tested: **NHRS50U33BZ750-VS_75**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731756
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50U33BZ750-VS_75
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 3 AT 5000K WITH VISOR @ 75% output
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	14558.3 lumens	Max Intensity:	56905.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	124.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.46' x H: 0')		

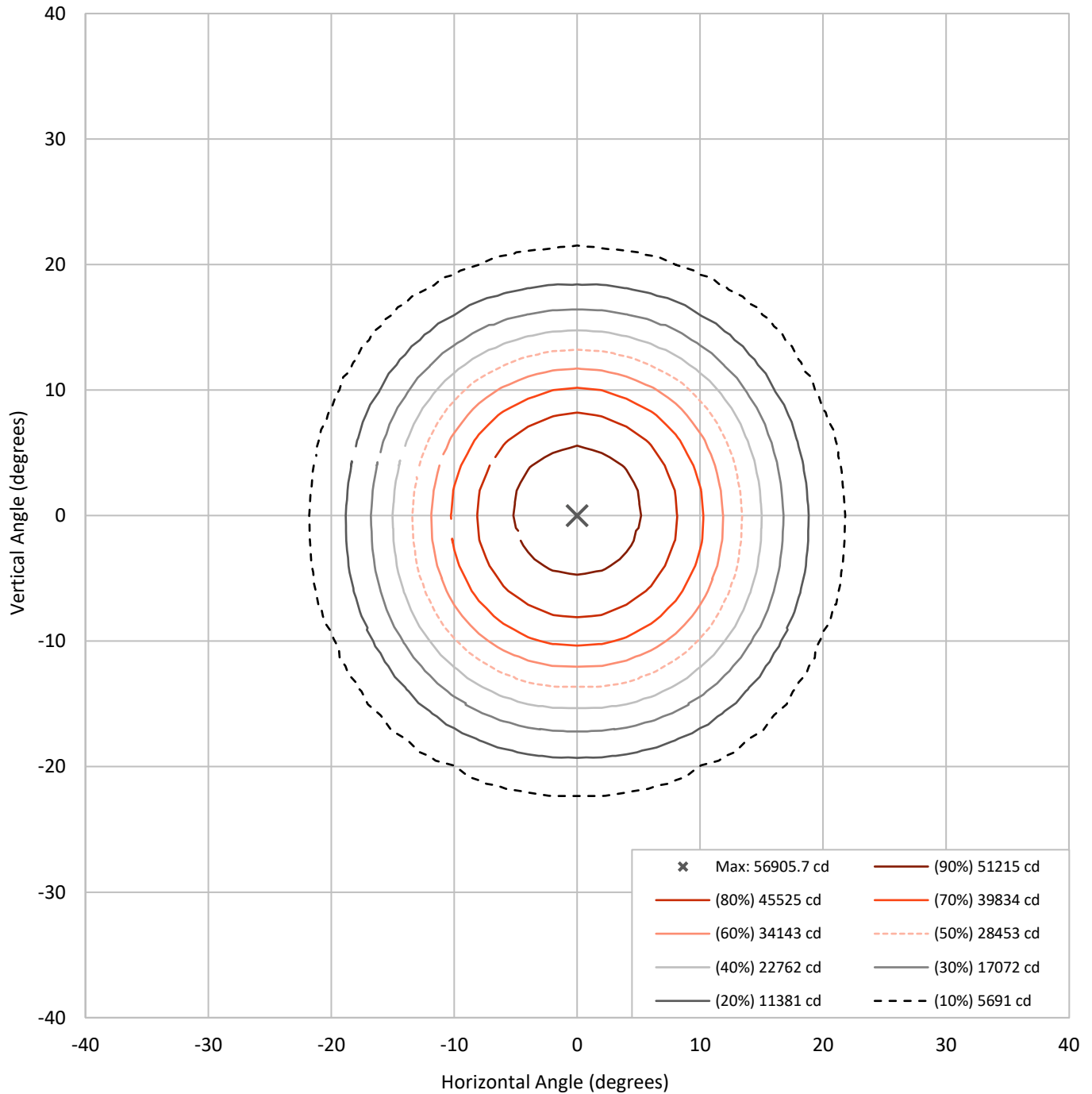
Beam Angle (50%):	26.8°H x 26.9°V	Field Angle (10%):	43.6°H x 43.7°V
Beam Lumens:	7080.3 lumens	Field Lumens:	11463.2 lumens
Beam Efficiency:	48.6%	Field Efficiency:	78.7%

Input Watts (W): 116.8
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





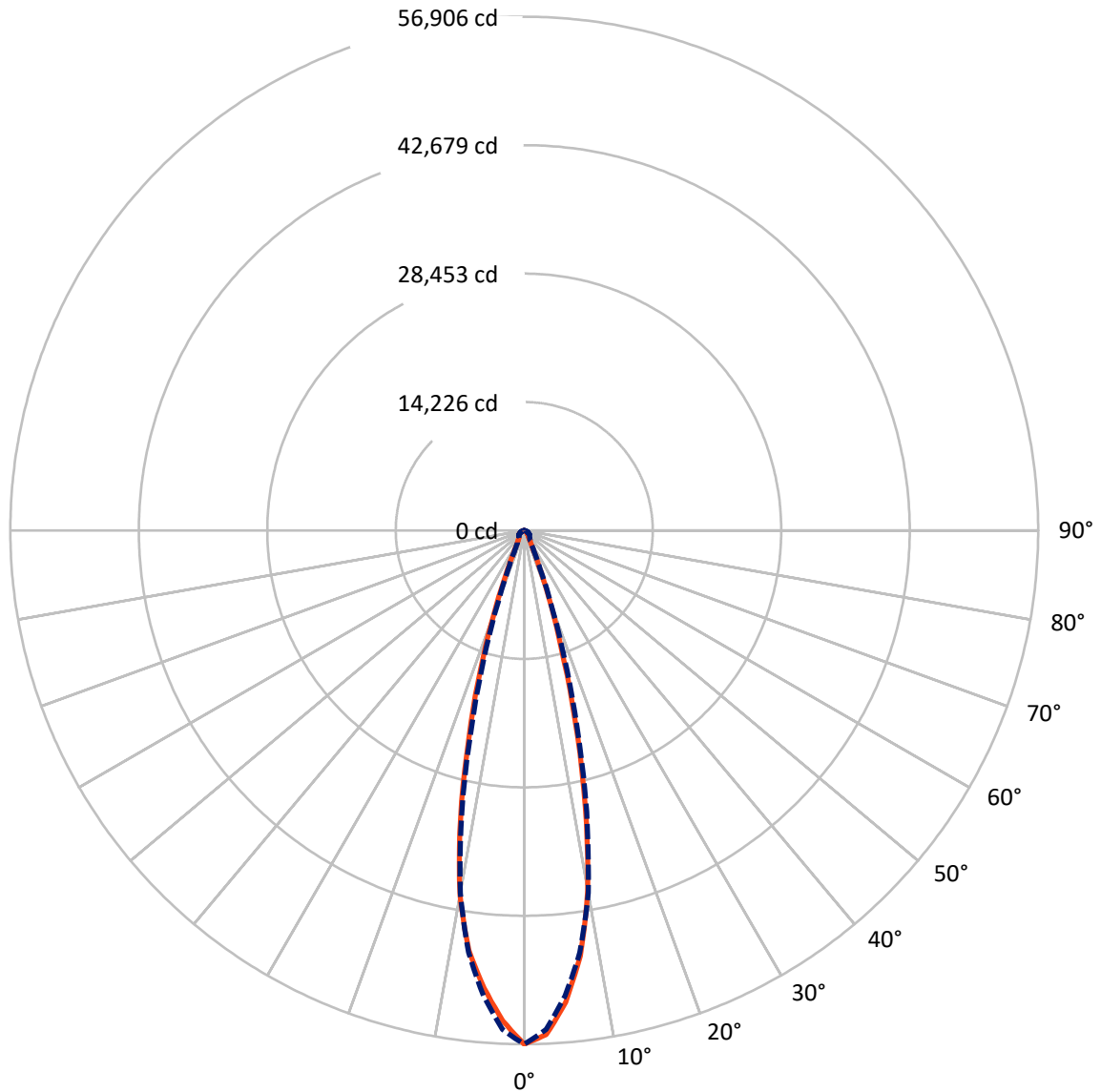
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Lumen Table

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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1				
60		0.3	0.8	1.4	2.0	2.6	3.1	3.3	3.3	3.1	2.6	2.0	1.4	0.8		0.3			
50	0.9	1.3	3.0	5.3	8.0	10.3	12.0	12.9	12.9	12.0	10.3	8.0	5.3	3.0	1.3				
40		2.5	5.8	10.3	14.9	18.6	22.1	24.9	24.9	22.1	18.6	14.9	10.3	5.8	2.5				
30	2.2	3.7	8.4	14.4	19.9	27.7	47.1	83.6	83.6	47.1	27.7	19.9	14.4	8.4	3.7				
20		4.5	10.2	17.0	23.9	47.4	228.3	597.8	597.8	228.3	47.4	23.9	17.0	10.2	4.5				
10	3.0	5.0	11.2	18.1	26.4	84.9	597.2	1386.7	1386.7	597.2	84.9	26.4	18.1	11.2	5.0				
0		5.2	11.5	18.5	26.6	87.5	615.9	1386.0	1386.0	615.9	87.5	26.6	18.5	11.5	5.2				
-10	3.0	5.1	11.2	18.0	24.6	49.9	258.4	657.5	657.5	258.4	49.9	24.6	18.0	11.2	5.1				
-20		4.8	10.3	17.1	22.6	30.9	54.8	104.9	104.9	54.8	30.9	22.6	17.1	10.3	4.8				
-30	2.3	4.3	9.1	15.3	20.9	25.1	29.3	33.1	33.1	29.3	25.1	20.9	15.3	9.1	4.3				
-40		3.5	7.6	12.6	17.9	21.9	24.5	26.2	26.2	24.5	21.9	17.9	12.6	7.6	3.5				
-50	1.0	2.6	5.6	9.3	13.1	16.4	18.8	20.2	20.2	18.8	16.4	13.1	9.3	5.6	2.6				
-60		1.5	3.5	5.8	8.2	10.3	11.7	12.4	12.4	11.7	10.3	8.2	5.8	3.5	1.5				
-70	0.1	2.1	6.5	10.4	11.7	10.4	6.5	2.1	0.1	2.1	6.5	10.4	11.7	10.4	6.5				
-80		0.1	2.1	6.5	10.4	11.7	10.4	6.5	2.1	0.1	2.1	6.5	10.4	11.7	10.4				
-90	0.1	2.1	6.5	10.4	11.7	10.4	6.5	2.1	0.1	2.1	6.5	10.4	11.7	10.4	6.5				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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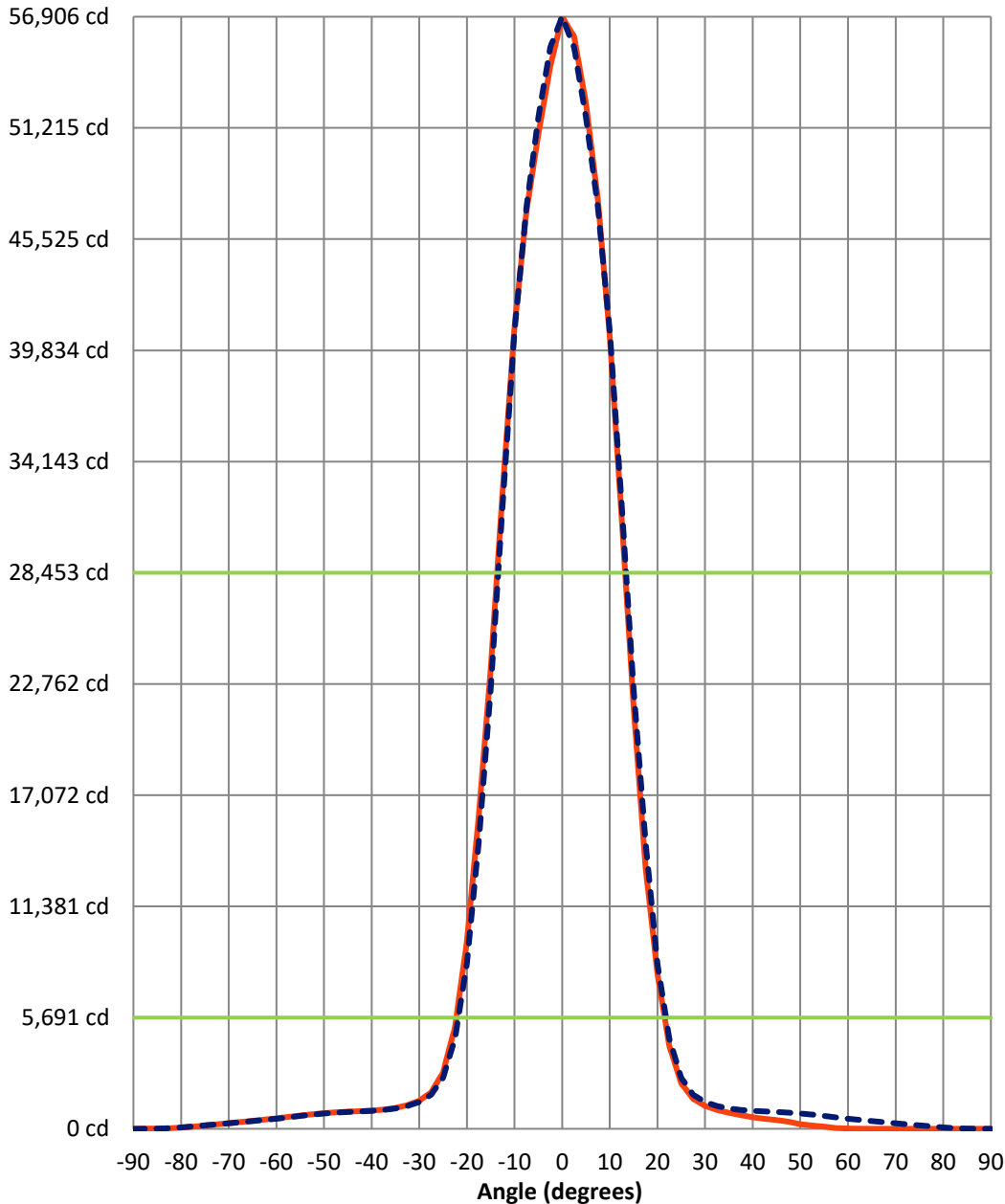
Luminous Intensity Polar Plot



— 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: 7080.3
Efficiency: 48.6%

Field:
H Angle: 43.6°
V Angle: 43.7°
Lumens: 11463.2
Efficiency: 78.7%

Spill:
Lumens: 3095.1
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	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	2	2	2	2	2	2	2
65°	0	1	1	2	2	3	3	2	3	4	3
62.5°	0	1	1	2	3	4	4	3	5	6	6
60°	0	1	1	2	3	6	6	6	7	10	10
57.5°	0	1	2	3	5	7	9	8	11	15	16
55°	0	1	2	3	6	9	12	11	16	20	26
52.5°	0	1	2	4	8	11	16	18	22	31	37
50°	0	1	2	4	9	15	20	25	30	42	54
47.5°	0	1	2	5	12	19	24	33	41	55	73
45°	0	1	3	6	13	23	32	41	55	73	94
42.5°	0	1	3	8	15	27	40	52	69	93	119
40°	0	1	4	9	18	30	48	65	84	112	146
37.5°	0	1	4	11	21	35	56	77	102	134	173
35°	0	1	5	13	24	41	65	90	120	157	199
32.5°	0	1	5	13	28	48	74	101	137	179	220
30°	0	2	6	15	31	55	84	115	154	200	241
27.5°	0	2	6	16	35	62	94	129	172	218	260
25°	0	2	6	18	38	69	104	143	189	236	280
22.5°	0	2	6	20	42	76	113	156	204	253	298
20°	0	2	7	21	46	83	122	168	219	268	314
17.5°	0	2	7	23	49	89	131	181	232	282	331
15°	0	2	8	23	52	95	140	191	245	296	345
12.5°	0	2	8	25	56	101	147	200	255	309	359
10°	0	2	9	26	59	107	154	207	262	317	370
7.5°	0	2	9	27	63	112	161	213	268	324	378
5°	0	2	9	28	66	119	168	220	275	332	385
2.5°	0	2	9	29	67	122	172	224	278	335	392
0°	0	2	9	30	69	126	177	227	281	338	396
-2.5°	0	2	9	30	71	128	179	229	284	342	399
-5°	0	2	10	31	73	130	181	231	286	345	401
-7.5°	0	2	10	32	74	130	181	230	285	343	402
-10°	0	2	10	32	73	131	181	229	284	343	401
-12.5°	0	2	10	32	73	130	180	228	282	341	398
-15°	0	2	10	32	73	129	179	227	280	338	395
-17.5°	0	2	10	32	73	129	179	225	277	334	391
-20°	0	2	10	31	71	126	176	221	273	328	385



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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	10	31	69	123	173	218	267	322	378
-25°	0	2	10	30	68	119	169	213	262	315	370
-27.5°	0	2	9	30	66	115	165	208	255	307	361
-30°	0	2	9	28	62	109	160	202	248	299	351
-32.5°	0	2	9	27	59	104	154	195	240	289	340
-35°	0	2	9	26	55	97	147	188	232	279	327
-37.5°	0	2	9	24	52	91	139	181	222	267	315
-40°	0	2	8	23	47	85	130	173	211	256	300
-42.5°	0	2	8	20	43	80	122	164	201	242	285
-45°	0	2	7	18	40	73	112	154	190	228	268
-47.5°	0	2	6	16	37	66	102	143	179	213	251
-50°	0	2	6	14	34	59	93	131	167	198	233
-52.5°	0	2	6	13	30	52	84	119	153	183	216
-55°	0	2	5	12	26	46	75	108	138	168	197
-57.5°	0	2	4	11	21	41	66	94	122	151	179
-60°	0	1	3	9	17	35	56	82	107	133	159
-62.5°	0	1	2	8	15	29	48	69	91	115	140
-65°	0	1	2	7	13	22	39	56	76	97	119
-67.5°	0	1	2	6	11	17	30	46	59	77	97
-70°	0	1	2	4	9	15	22	34	46	58	75
-72.5°	0	1	2	3	6	12	17	23	34	44	53
-75°	0	1	2	2	4	9	13	17	21	30	37
-77.5°	0	1	2	2	3	6	9	13	16	17	22
-80°	0	1	1	2	2	4	6	8	10	13	14
-82.5°	0	0	1	2	2	3	4	5	6	7	9
-85°	0	0	1	1	2	2	2	3	3	4	5
-87.5°	0	0	0	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):

	-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	2	3	2	1	2	2	2	2	2	2
62.5°	3	5	6	6	5	5	6	7	5	6	6
60°	9	8	12	14	13	13	14	16	15	13	17
57.5°	15	16	23	27	28	24	30	32	34	34	37
55°	27	30	40	47	48	48	52	60	62	63	64
52.5°	44	49	62	70	75	78	85	95	101	101	106
50°	64	76	87	99	107	115	126	140	148	152	161
47.5°	90	105	116	130	143	160	177	189	199	214	239
45°	117	134	148	165	185	211	227	239	257	280	304
42.5°	148	165	182	200	235	260	278	293	317	353	374
40°	173	194	216	248	285	308	331	352	394	425	445
37.5°	200	225	252	294	330	358	387	420	461	497	515
35°	228	256	292	334	374	409	441	480	519	555	580
32.5°	255	287	330	372	414	457	492	532	573	610	636
30°	280	319	365	409	455	498	537	580	627	659	684
27.5°	302	349	398	444	494	539	582	630	674	706	729
25°	322	374	429	479	531	579	624	677	717	748	773
22.5°	343	397	453	513	566	617	666	714	753	789	812
20°	363	418	475	537	599	653	702	748	784	815	845
17.5°	381	437	495	558	622	682	735	782	810	837	868
15°	398	453	513	579	643	704	757	802	830	856	887
12.5°	412	468	530	596	663	724	775	815	844	872	909
10°	426	481	544	612	680	741	790	826	855	885	927
7.5°	436	492	557	626	695	756	802	837	865	896	942
5°	444	501	567	639	707	769	812	845	873	905	952
2.5°	451	509	576	652	719	778	821	855	883	914	960
0°	456	515	582	660	726	783	826	862	889	918	964
-2.5°	458	518	586	662	729	785	830	865	890	919	964
-5°	458	520	588	660	727	784	830	864	889	916	960
-7.5°	458	520	588	657	724	781	827	861	886	912	953
-10°	456	518	584	653	720	776	822	857	882	906	944
-12.5°	454	513	579	646	712	769	815	851	877	900	932
-15°	450	508	571	637	702	761	806	844	872	893	918
-17.5°	445	501	561	626	691	752	798	837	865	886	910
-20°	440	493	550	613	678	739	787	826	857	879	900



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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°	433	483	538	599	663	724	775	816	847	872	890
-25°	424	474	526	585	646	706	761	805	837	861	882
-27.5°	415	465	515	569	629	688	741	787	823	850	872
-30°	403	453	501	553	610	667	720	767	805	834	858
-32.5°	391	442	487	537	590	646	696	743	783	816	841
-35°	377	426	472	519	571	621	670	716	759	793	821
-37.5°	363	410	455	500	547	594	644	687	729	769	797
-40°	347	393	437	480	522	566	611	656	698	734	770
-42.5°	332	375	418	458	497	537	579	622	661	699	733
-45°	311	356	398	434	470	508	547	586	623	658	693
-47.5°	292	334	375	409	443	478	512	547	582	616	649
-50°	271	311	349	382	414	446	479	508	540	571	603
-52.5°	250	286	321	353	383	413	443	469	497	524	553
-55°	228	261	292	322	351	378	405	430	454	478	502
-57.5°	207	235	264	291	318	343	366	389	412	433	454
-60°	185	210	235	260	285	307	327	348	368	388	407
-62.5°	163	186	207	229	252	271	290	307	327	342	360
-65°	140	161	181	200	221	236	252	267	281	297	313
-67.5°	117	134	153	172	188	201	215	228	241	253	266
-70°	91	107	122	138	154	167	178	189	200	211	221
-72.5°	66	80	92	105	116	129	140	148	158	168	176
-75°	45	53	62	73	82	91	99	108	115	123	130
-77.5°	28	34	41	45	50	57	63	69	75	80	83
-80°	16	17	22	26	30	33	35	37	39	42	46
-82.5°	10	12	13	14	14	15	16	17	20	21	23
-85°	6	6	7	9	9	9	10	10	11	11	12
-87.5°	2	3	4	4	5	5	6	6	6	6	7
-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°	5	4	5	5	5	4	6	6	6	5	5
60°	17	14	14	16	16	14	16	16	16	16	16
57.5°	37	35	34	39	39	35	37	44	46	46	45
55°	68	73	73	77	83	88	93	96	98	100	104
52.5°	115	123	123	129	143	147	145	154	159	158	161
50°	179	188	197	208	218	224	225	232	237	238	239
47.5°	250	264	277	292	303	310	322	331	333	336	342
45°	317	333	352	367	379	389	398	408	415	421	426
42.5°	383	405	429	441	442	458	472	478	488	493	494
40°	462	487	508	517	527	544	553	554	560	570	573
37.5°	539	567	587	600	612	626	634	644	656	665	672
35°	607	631	656	667	681	696	712	728	745	762	777
32.5°	659	684	704	721	738	761	784	814	839	869	899
30°	703	729	752	772	800	835	874	921	968	1012	1063
27.5°	750	777	804	835	878	929	999	1065	1147	1208	1314
25°	796	824	863	912	973	1059	1159	1262	1413	1546	1774
22.5°	838	875	928	995	1090	1213	1362	1564	1866	2232	2710
20°	877	925	992	1091	1220	1384	1640	2074	2627	3585	4548
17.5°	912	977	1062	1181	1345	1611	2093	2860	4089	6050	8126
15°	939	1017	1127	1280	1516	1937	2675	4099	6655	9803	13484
12.5°	968	1056	1182	1362	1676	2342	3688	6096	9815	14779	19756
10°	993	1094	1243	1482	1942	2902	4782	8282	13623	20084	26323
7.5°	1013	1123	1291	1582	2203	3574	6285	10915	17345	24793	32424
5°	1025	1143	1328	1671	2415	4080	7395	12943	20241	28694	37362
2.5°	1037	1161	1361	1737	2558	4398	8105	14164	21909	31035	39962
0°	1041	1166	1370	1748	2616	4610	8460	14712	22500	31915	40785
-2.5°	1041	1162	1372	1754	2559	4525	8337	14528	22104	31599	40297
-5°	1032	1148	1341	1696	2458	4225	7846	13628	20856	29589	37831
-7.5°	1021	1130	1304	1609	2271	3751	6771	11728	18353	25857	33673
-10°	1006	1104	1257	1510	2014	3091	5233	9200	14914	21473	27923
-12.5°	985	1070	1198	1386	1734	2496	4064	6875	11116	16473	21721
-15°	964	1036	1147	1307	1572	2057	2914	4676	7762	11508	15596
-17.5°	946	1004	1093	1214	1388	1704	2279	3238	4847	7419	10019
-20°	928	971	1042	1141	1275	1462	1765	2303	2984	4340	5604



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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°	913	946	997	1069	1170	1307	1478	1731	2098	2579	3261
-25°	900	923	960	1015	1084	1179	1296	1429	1622	1812	2131
-27.5°	889	908	932	969	1021	1075	1155	1240	1346	1438	1585
-30°	878	894	913	935	967	1005	1052	1109	1169	1229	1302
-32.5°	863	882	897	913	929	953	980	1017	1054	1093	1133
-35°	845	865	883	893	904	918	932	953	971	998	1021
-37.5°	823	845	861	873	883	891	901	911	921	938	951
-40°	795	819	837	851	860	870	877	884	891	900	908
-42.5°	764	787	806	822	834	844	853	860	868	873	879
-45°	725	748	769	787	803	813	823	833	840	847	853
-47.5°	678	703	724	743	760	773	785	796	805	812	821
-50°	628	652	674	692	709	725	739	751	759	767	777
-52.5°	580	600	621	640	656	670	684	694	703	711	720
-55°	525	546	564	582	598	611	623	633	641	648	658
-57.5°	475	494	511	526	540	552	562	570	577	582	590
-60°	426	444	458	472	484	494	502	508	513	518	524
-62.5°	377	392	406	419	430	439	445	450	453	456	461
-65°	327	342	354	366	377	385	390	395	397	400	403
-67.5°	278	290	302	313	322	330	334	338	342	344	347
-70°	231	239	249	257	265	272	277	281	283	285	288
-72.5°	184	192	199	206	211	217	220	223	225	228	229
-75°	138	143	148	153	157	161	164	166	168	170	172
-77.5°	87	91	96	99	102	105	106	108	108	108	109
-80°	49	52	53	55	55	57	59	59	60	61	62
-82.5°	24	25	26	26	27	27	27	27	27	27	27
-85°	12	12	13	13	13	13	13	13	13	13	13
-87.5°	8	8	8	9	9	9	9	9	10	10	10
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: NHRS50U33BZ750-VS_75

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°	5	4	4	4	4	4	5	5	5	6	6
60°	16	16	16	15	16	16	16	16	16	16	16
57.5°	42	37	37	37	37	37	42	45	46	46	44
55°	107	108	111	110	111	108	107	104	100	98	96
52.5°	163	164	166	168	166	164	163	161	158	159	154
50°	238	232	232	234	232	232	238	239	238	237	232
47.5°	352	358	366	363	366	358	352	342	336	333	331
45°	433	438	444	447	444	438	433	426	421	415	408
42.5°	501	504	508	511	508	504	501	494	493	488	478
40°	581	586	589	589	589	586	581	573	570	560	554
37.5°	682	690	697	700	697	690	682	672	665	656	644
35°	792	806	819	819	819	806	792	777	762	745	728
32.5°	922	945	963	964	963	945	922	899	869	839	814
30°	1101	1133	1156	1174	1156	1133	1101	1063	1012	968	921
27.5°	1392	1461	1509	1534	1509	1461	1392	1314	1208	1147	1065
25°	1986	2139	2231	2330	2231	2139	1986	1774	1546	1413	1262
22.5°	3277	3685	3933	4243	3933	3685	3277	2710	2232	1866	1564
20°	5966	6969	7458	7946	7458	6969	5966	4548	3585	2627	2074
17.5°	10631	12257	13537	13414	13537	12257	10631	8126	6050	4089	2860
15°	16992	19492	21071	21616	21071	19492	16992	13484	9803	6655	4099
12.5°	24311	28117	30708	31237	30708	28117	24311	19756	14779	9815	6096
10°	32482	36768	39625	40517	39625	36768	32482	26323	20084	13623	8282
7.5°	39383	43969	46486	47529	46486	43969	39383	32424	24793	17345	10915
5°	43958	48793	51241	52464	51241	48793	43958	37362	28694	20241	12943
2.5°	46611	51208	54621	55884	54621	51208	46611	39962	31035	21909	14164
0°	47145	51749	55329	56906	55329	51749	47145	40785	31915	22500	14712
-2.5°	46574	50639	53536	54357	53536	50639	46574	40297	31599	22104	14528
-5°	44312	48255	50385	50887	50385	48255	44312	37831	29589	20856	13628
-7.5°	40033	44226	46462	46930	46462	44226	40033	33673	25857	18353	11728
-10°	33865	38165	40479	41025	40479	38165	33865	27923	21473	14914	9200
-12.5°	26448	30242	32413	32603	32413	30242	26448	21721	16473	11116	6875
-15°	19305	22079	23644	23541	23644	22079	19305	15596	11508	7762	4676
-17.5°	12668	14617	15687	16033	15687	14617	12668	10019	7419	4847	3238
-20°	7405	8681	9500	9586	9500	8681	7405	5604	4340	2984	2303



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	4120	4785	5212	5207	5212	4785	4120	3261	2579	2098	1731
-25°	2457	2707	2860	2887	2860	2707	2457	2131	1812	1622	1429
-27.5°	1704	1801	1867	1866	1867	1801	1704	1585	1438	1346	1240
-30°	1360	1408	1449	1437	1449	1408	1360	1302	1229	1169	1109
-32.5°	1166	1190	1210	1209	1210	1190	1166	1133	1093	1054	1017
-35°	1041	1057	1070	1067	1070	1057	1041	1021	998	971	953
-37.5°	963	972	980	982	980	972	963	951	938	921	911
-40°	917	924	929	932	929	924	917	908	900	891	884
-42.5°	886	893	899	901	899	893	886	879	873	868	860
-45°	861	867	872	876	872	867	861	853	847	840	833
-47.5°	830	837	844	845	844	837	830	821	812	805	796
-50°	787	794	800	800	800	794	787	777	767	759	751
-52.5°	729	735	741	743	741	735	729	720	711	703	694
-55°	667	674	678	679	678	674	667	658	648	641	633
-57.5°	596	601	607	608	607	601	596	590	582	577	570
-60°	529	532	535	534	535	532	529	524	518	513	508
-62.5°	464	466	469	471	469	466	464	461	456	453	450
-65°	406	407	408	406	408	407	406	403	400	397	395
-67.5°	349	351	350	349	350	351	349	347	344	342	338
-70°	289	291	289	287	289	291	289	288	285	283	281
-72.5°	230	232	231	229	231	232	230	229	228	225	223
-75°	172	174	172	170	172	174	172	172	170	168	166
-77.5°	109	109	108	106	108	109	109	109	108	108	108
-80°	63	62	62	61	62	62	63	62	61	60	59
-82.5°	28	28	28	27	28	28	28	27	27	27	27
-85°	14	14	14	14	14	14	14	13	13	13	13
-87.5°	11	11	11	11	11	11	11	10	10	10	9
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731756
 CATALOG NUMBER: NHRS50U33BZ750-VS_75

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	2
62.5°	6	4	5	5	5	4	5	6	6	5	7
60°	16	14	16	16	14	14	17	17	13	15	16
57.5°	37	35	39	39	34	35	37	37	34	34	32
55°	93	88	83	77	73	73	68	64	63	62	60
52.5°	145	147	143	129	123	123	115	106	101	101	95
50°	225	224	218	208	197	188	179	161	152	148	140
47.5°	322	310	303	292	277	264	250	239	214	199	189
45°	398	389	379	367	352	333	317	304	280	257	239
42.5°	472	458	442	441	429	405	383	374	353	317	293
40°	553	544	527	517	508	487	462	445	425	394	352
37.5°	634	626	612	600	587	567	539	515	497	461	420
35°	712	696	681	667	656	631	607	580	555	519	480
32.5°	784	761	738	721	704	684	659	636	610	573	532
30°	874	835	800	772	752	729	703	684	659	627	580
27.5°	999	929	878	835	804	777	750	729	706	674	630
25°	1159	1059	973	912	863	824	796	773	748	717	677
22.5°	1362	1213	1090	995	928	875	838	812	789	753	714
20°	1640	1384	1220	1091	992	925	877	845	815	784	748
17.5°	2093	1611	1345	1181	1062	977	912	868	837	810	782
15°	2675	1937	1516	1280	1127	1017	939	887	856	830	802
12.5°	3688	2342	1676	1362	1182	1056	968	909	872	844	815
10°	4782	2902	1942	1482	1243	1094	993	927	885	855	826
7.5°	6285	3574	2203	1582	1291	1123	1013	942	896	865	837
5°	7395	4080	2415	1671	1328	1143	1025	952	905	873	845
2.5°	8105	4398	2558	1737	1361	1161	1037	960	914	883	855
0°	8460	4610	2616	1748	1370	1166	1041	964	918	889	862
-2.5°	8337	4525	2559	1754	1372	1162	1041	964	919	890	865
-5°	7846	4225	2458	1696	1341	1148	1032	960	916	889	864
-7.5°	6771	3751	2271	1609	1304	1130	1021	953	912	886	861
-10°	5233	3091	2014	1510	1257	1104	1006	944	906	882	857
-12.5°	4064	2496	1734	1386	1198	1070	985	932	900	877	851
-15°	2914	2057	1572	1307	1147	1036	964	918	893	872	844
-17.5°	2279	1704	1388	1214	1093	1004	946	910	886	865	837
-20°	1765	1462	1275	1141	1042	971	928	900	879	857	826



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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°	1478	1307	1170	1069	997	946	913	890	872	847	816
-25°	1296	1179	1084	1015	960	923	900	882	861	837	805
-27.5°	1155	1075	1021	969	932	908	889	872	850	823	787
-30°	1052	1005	967	935	913	894	878	858	834	805	767
-32.5°	980	953	929	913	897	882	863	841	816	783	743
-35°	932	918	904	893	883	865	845	821	793	759	716
-37.5°	901	891	883	873	861	845	823	797	769	729	687
-40°	877	870	860	851	837	819	795	770	734	698	656
-42.5°	853	844	834	822	806	787	764	733	699	661	622
-45°	823	813	803	787	769	748	725	693	658	623	586
-47.5°	785	773	760	743	724	703	678	649	616	582	547
-50°	739	725	709	692	674	652	628	603	571	540	508
-52.5°	684	670	656	640	621	600	580	553	524	497	469
-55°	623	611	598	582	564	546	525	502	478	454	430
-57.5°	562	552	540	526	511	494	475	454	433	412	389
-60°	502	494	484	472	458	444	426	407	388	368	348
-62.5°	445	439	430	419	406	392	377	360	342	327	307
-65°	390	385	377	366	354	342	327	313	297	281	267
-67.5°	334	330	322	313	302	290	278	266	253	241	228
-70°	277	272	265	257	249	239	231	221	211	200	189
-72.5°	220	217	211	206	199	192	184	176	168	158	148
-75°	164	161	157	153	148	143	138	130	123	115	108
-77.5°	106	105	102	99	96	91	87	83	80	75	69
-80°	59	57	55	55	53	52	49	46	42	39	37
-82.5°	27	27	27	26	26	25	24	23	21	20	17
-85°	13	13	13	13	13	12	12	12	11	11	10
-87.5°	9	9	9	9	8	8	8	7	6	6	6
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731756
 CATALOG NUMBER: NHRS50U33BZ750-VS_75

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	2	2	2
65°	2	2	1	2	3	2	2	3	4	3	2
62.5°	6	5	5	6	6	5	3	6	6	5	3
60°	14	13	13	14	12	8	9	10	10	7	6
57.5°	30	24	28	27	23	16	15	16	15	11	8
55°	52	48	48	47	40	30	27	26	20	16	11
52.5°	85	78	75	70	62	49	44	37	31	22	18
50°	126	115	107	99	87	76	64	54	42	30	25
47.5°	177	160	143	130	116	105	90	73	55	41	33
45°	227	211	185	165	148	134	117	94	73	55	41
42.5°	278	260	235	200	182	165	148	119	93	69	52
40°	331	308	285	248	216	194	173	146	112	84	65
37.5°	387	358	330	294	252	225	200	173	134	102	77
35°	441	409	374	334	292	256	228	199	157	120	90
32.5°	492	457	414	372	330	287	255	220	179	137	101
30°	537	498	455	409	365	319	280	241	200	154	115
27.5°	582	539	494	444	398	349	302	260	218	172	129
25°	624	579	531	479	429	374	322	280	236	189	143
22.5°	666	617	566	513	453	397	343	298	253	204	156
20°	702	653	599	537	475	418	363	314	268	219	168
17.5°	735	682	622	558	495	437	381	331	282	232	181
15°	757	704	643	579	513	453	398	345	296	245	191
12.5°	775	724	663	596	530	468	412	359	309	255	200
10°	790	741	680	612	544	481	426	370	317	262	207
7.5°	802	756	695	626	557	492	436	378	324	268	213
5°	812	769	707	639	567	501	444	385	332	275	220
2.5°	821	778	719	652	576	509	451	392	335	278	224
0°	826	783	726	660	582	515	456	396	338	281	227
-2.5°	830	785	729	662	586	518	458	399	342	284	229
-5°	830	784	727	660	588	520	458	401	345	286	231
-7.5°	827	781	724	657	588	520	458	402	343	285	230
-10°	822	776	720	653	584	518	456	401	343	284	229
-12.5°	815	769	712	646	579	513	454	398	341	282	228
-15°	806	761	702	637	571	508	450	395	338	280	227
-17.5°	798	752	691	626	561	501	445	391	334	277	225
-20°	787	739	678	613	550	493	440	385	328	273	221



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	775	724	663	599	538	483	433	378	322	267	218
-25°	761	706	646	585	526	474	424	370	315	262	213
-27.5°	741	688	629	569	515	465	415	361	307	255	208
-30°	720	667	610	553	501	453	403	351	299	248	202
-32.5°	696	646	590	537	487	442	391	340	289	240	195
-35°	670	621	571	519	472	426	377	327	279	232	188
-37.5°	644	594	547	500	455	410	363	315	267	222	181
-40°	611	566	522	480	437	393	347	300	256	211	173
-42.5°	579	537	497	458	418	375	332	285	242	201	164
-45°	547	508	470	434	398	356	311	268	228	190	154
-47.5°	512	478	443	409	375	334	292	251	213	179	143
-50°	479	446	414	382	349	311	271	233	198	167	131
-52.5°	443	413	383	353	321	286	250	216	183	153	119
-55°	405	378	351	322	292	261	228	197	168	138	108
-57.5°	366	343	318	291	264	235	207	179	151	122	94
-60°	327	307	285	260	235	210	185	159	133	107	82
-62.5°	290	271	252	229	207	186	163	140	115	91	69
-65°	252	236	221	200	181	161	140	119	97	76	56
-67.5°	215	201	188	172	153	134	117	97	77	59	46
-70°	178	167	154	138	122	107	91	75	58	46	34
-72.5°	140	129	116	105	92	80	66	53	44	34	23
-75°	99	91	82	73	62	53	45	37	30	21	17
-77.5°	63	57	50	45	41	34	28	22	17	16	13
-80°	35	33	30	26	22	17	16	14	13	10	8
-82.5°	16	15	14	14	13	12	10	9	7	6	5
-85°	10	9	9	9	7	6	6	5	4	3	3
-87.5°	6	5	5	4	4	3	2	2	2	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°	2	2	2	2	1	1	0
65°	3	3	2	2	1	1	0
62.5°	4	4	3	2	1	1	0
60°	6	6	3	2	1	1	0
57.5°	9	7	5	3	2	1	0
55°	12	9	6	3	2	1	0
52.5°	16	11	8	4	2	1	0
50°	20	15	9	4	2	1	0
47.5°	24	19	12	5	2	1	0
45°	32	23	13	6	3	1	0
42.5°	40	27	15	8	3	1	0
40°	48	30	18	9	4	1	0
37.5°	56	35	21	11	4	1	0
35°	65	41	24	13	5	1	0
32.5°	74	48	28	13	5	1	0
30°	84	55	31	15	6	2	0
27.5°	94	62	35	16	6	2	0
25°	104	69	38	18	6	2	0
22.5°	113	76	42	20	6	2	0
20°	122	83	46	21	7	2	0
17.5°	131	89	49	23	7	2	0
15°	140	95	52	23	8	2	0
12.5°	147	101	56	25	8	2	0
10°	154	107	59	26	9	2	0
7.5°	161	112	63	27	9	2	0
5°	168	119	66	28	9	2	0
2.5°	172	122	67	29	9	2	0
0°	177	126	69	30	9	2	0
-2.5°	179	128	71	30	9	2	0
-5°	181	130	73	31	10	2	0
-7.5°	181	130	74	32	10	2	0
-10°	181	131	73	32	10	2	0
-12.5°	180	130	73	32	10	2	0
-15°	179	129	73	32	10	2	0
-17.5°	179	129	73	32	10	2	0
-20°	176	126	71	31	10	2	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	173	123	69	31	10	2	0
-25°	169	119	68	30	10	2	0
-27.5°	165	115	66	30	9	2	0
-30°	160	109	62	28	9	2	0
-32.5°	154	104	59	27	9	2	0
-35°	147	97	55	26	9	2	0
-37.5°	139	91	52	24	9	2	0
-40°	130	85	47	23	8	2	0
-42.5°	122	80	43	20	8	2	0
-45°	112	73	40	18	7	2	0
-47.5°	102	66	37	16	6	2	0
-50°	93	59	34	14	6	2	0
-52.5°	84	52	30	13	6	2	0
-55°	75	46	26	12	5	2	0
-57.5°	66	41	21	11	4	2	0
-60°	56	35	17	9	3	1	0
-62.5°	48	29	15	8	2	1	0
-65°	39	22	13	7	2	1	0
-67.5°	30	17	11	6	2	1	0
-70°	22	15	9	4	2	1	0
-72.5°	17	12	6	3	2	1	0
-75°	13	9	4	2	2	1	0
-77.5°	9	6	3	2	2	1	0
-80°	6	4	2	2	1	1	0
-82.5°	4	3	2	2	1	0	0
-85°	2	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)