

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: P731779

Luminaire Tested: **NHRS50UBZ750-VS_50**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731779
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ750-VS_50
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 5000K WITH VISOR @ 50% output
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

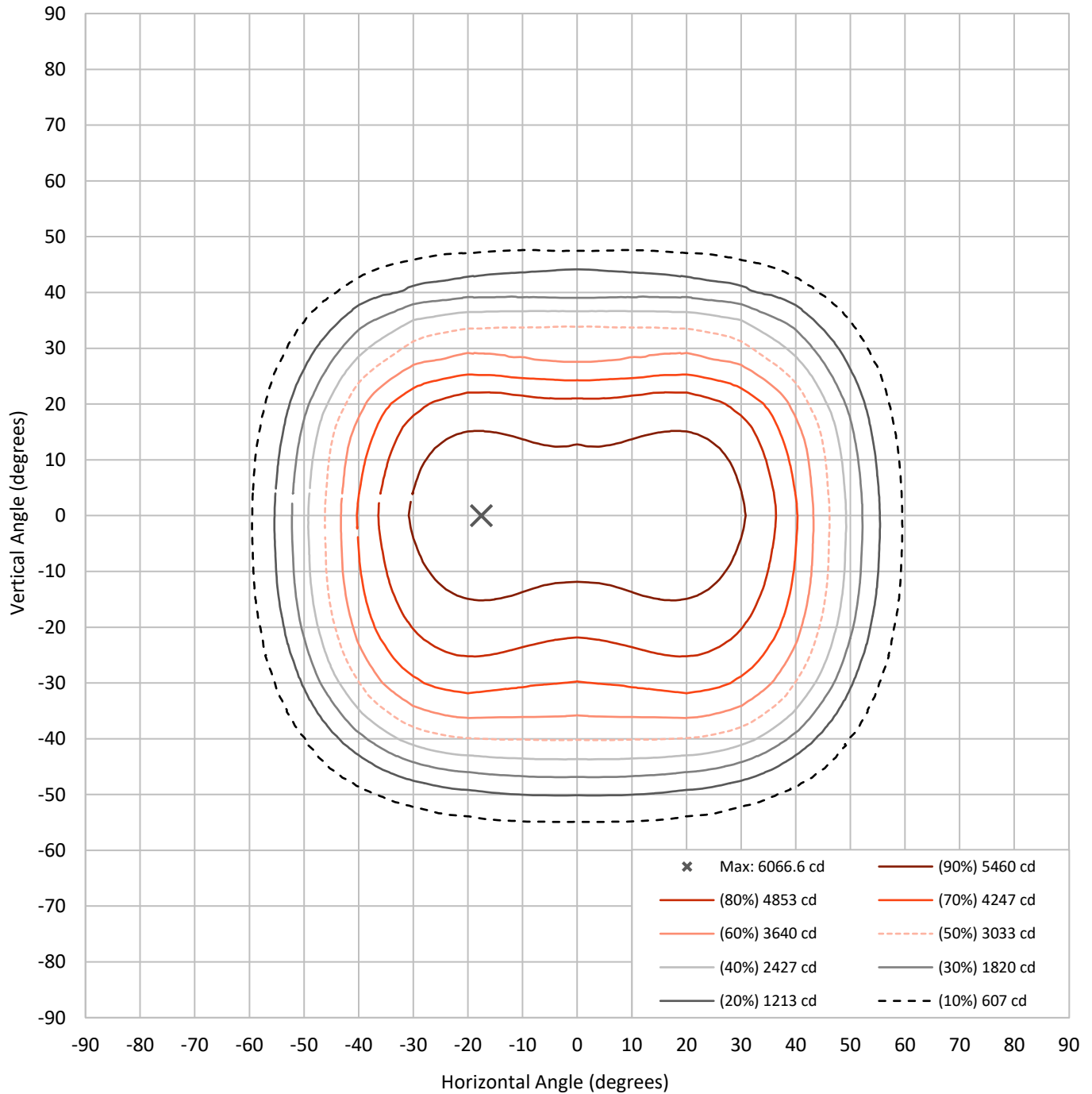
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	10230.5 lumens	Max Intensity:	6066.6 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	131.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.46' x H: 0')		
Beam Angle (50%):	92.3°H x 73.6°V	Field Angle (10%):	119°H x 101.3°V
Beam Lumens:	8044.2 lumens	Field Lumens:	9896.1 lumens
Beam Efficiency:	78.6%	Field Efficiency:	96.7%
Input Watts (W):	77.6		
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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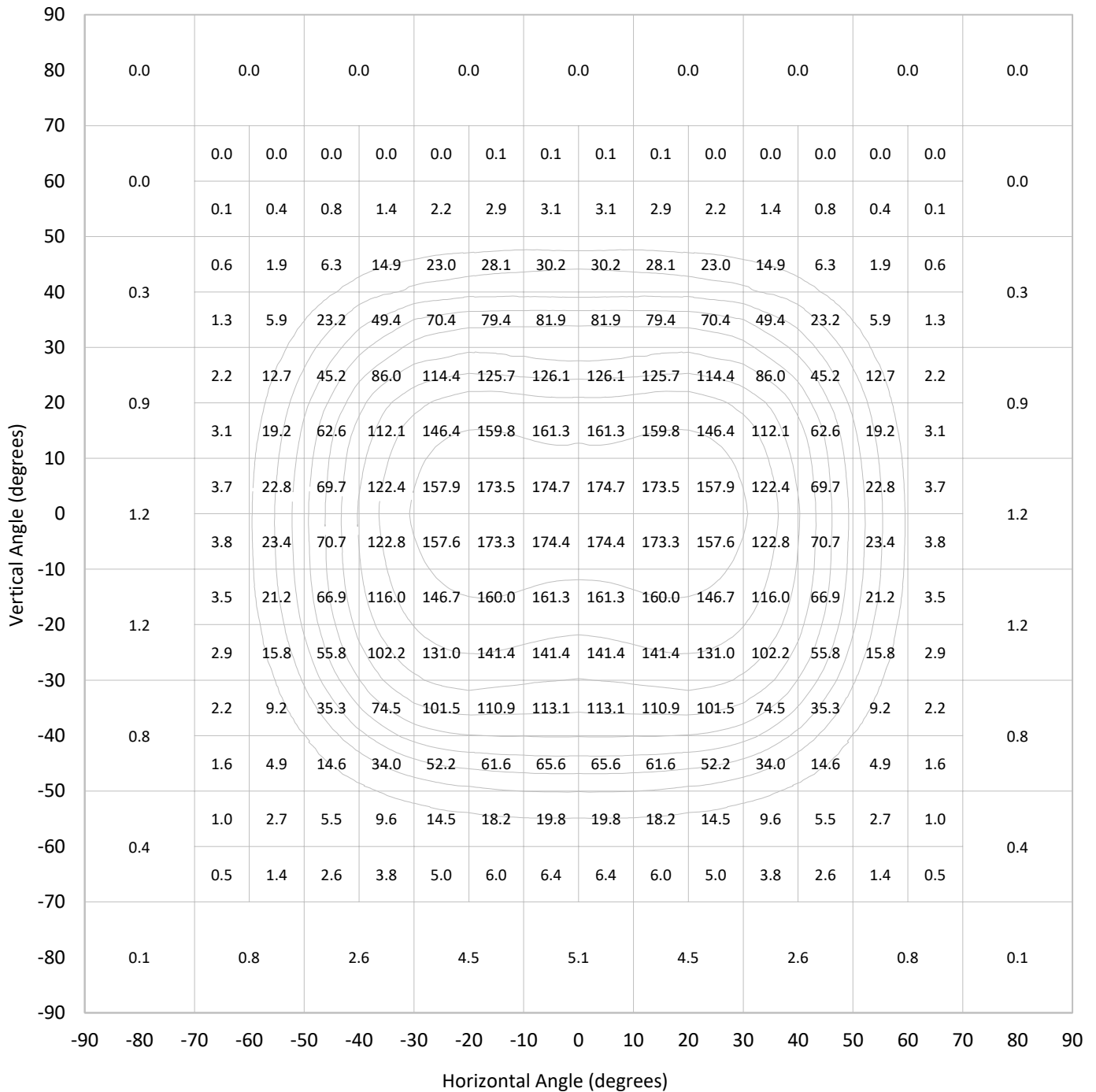
Iso-Candela Plot





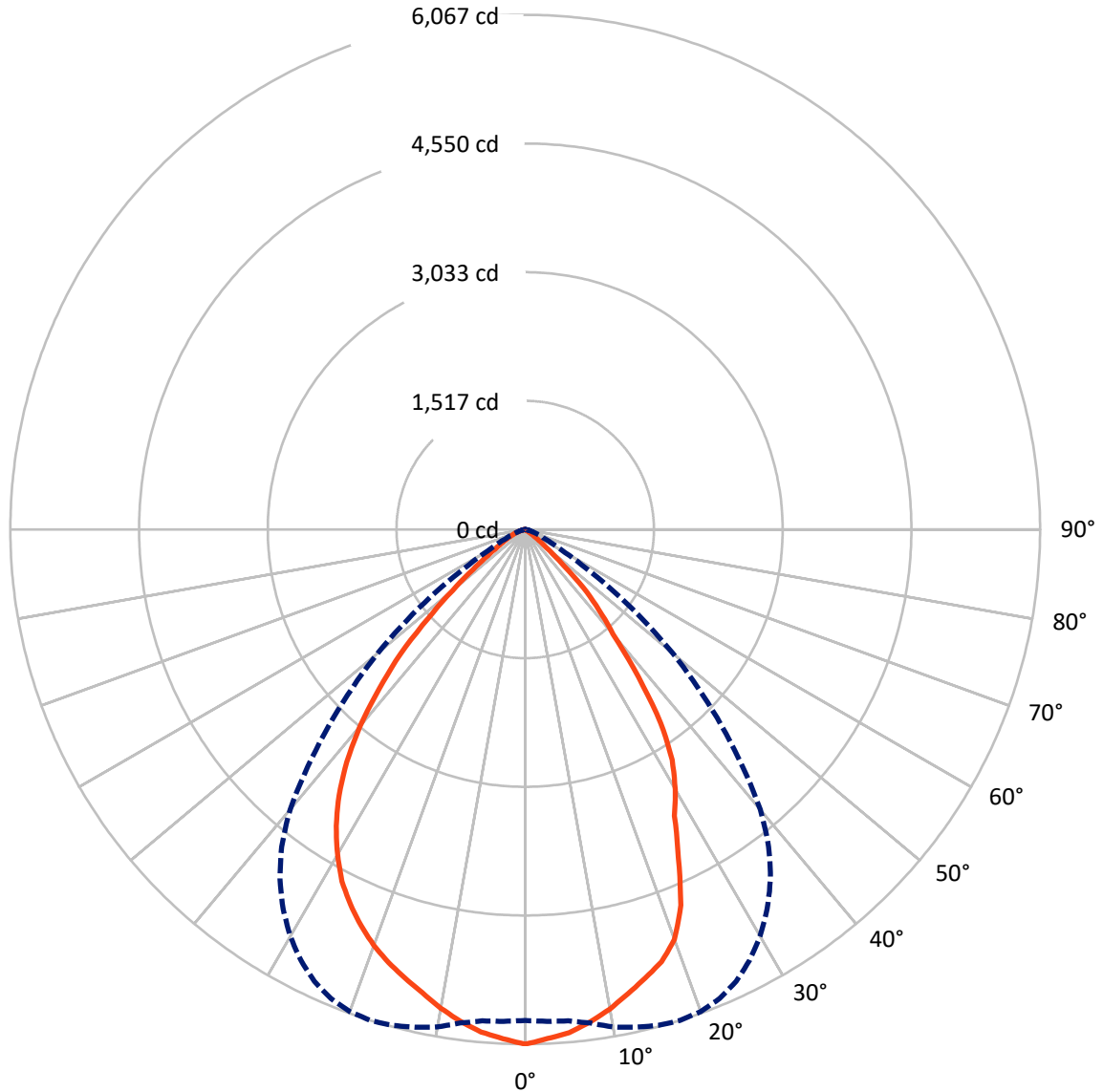
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Lumen Table



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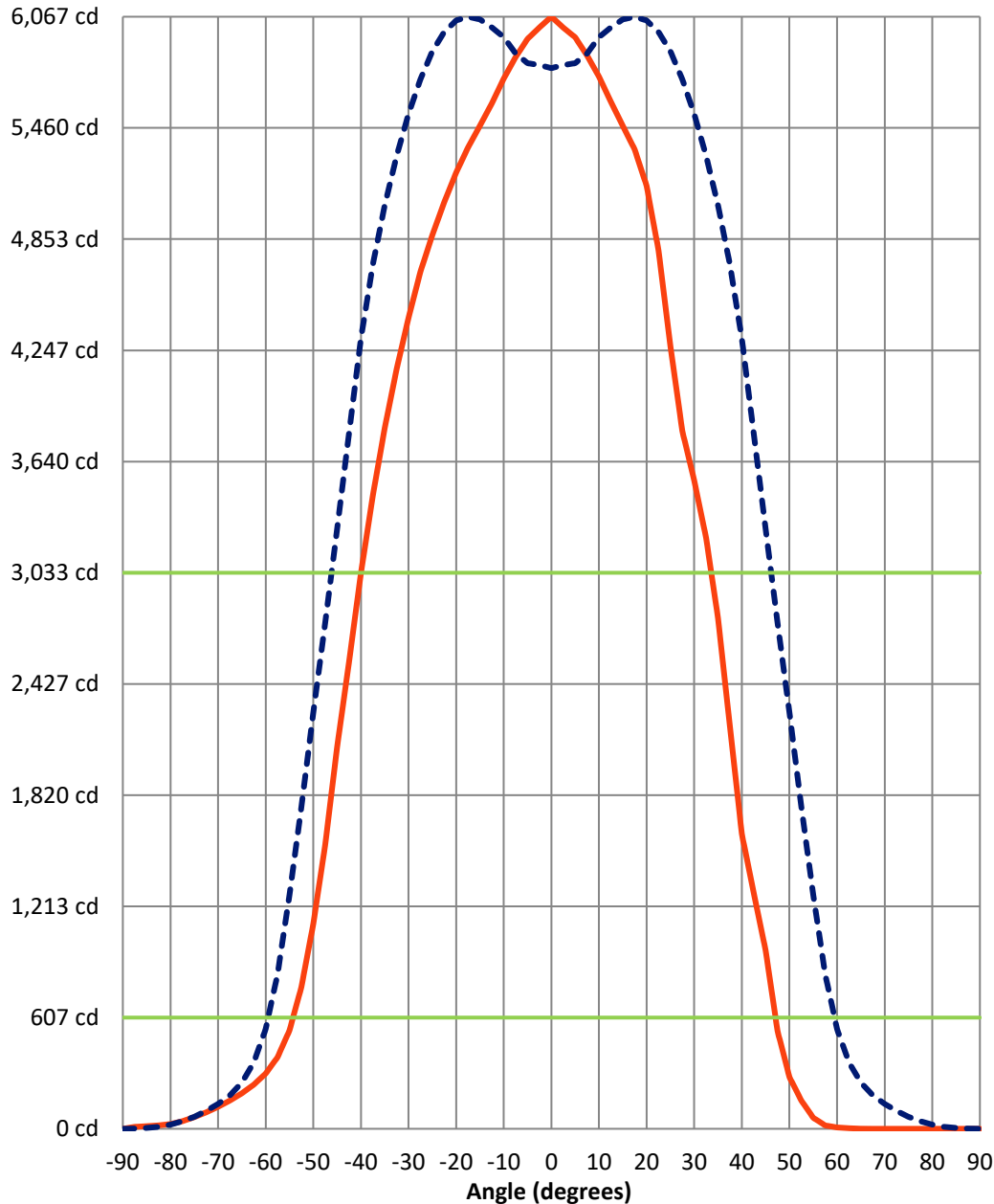
Luminous Intensity Polar Plot



— Vertical Distribution Through -17.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 92.3°
 V Angle: 73.6°
 Lumens: 8044.2
 Efficiency: 78.6%

Field:
 H Angle: 119°
 V Angle: 101.3°
 Lumens: 9896.1
 Efficiency: 96.7%

Spill:
 Lumens: 334.4
 Efficiency: 3.3%

— Vertical Distribution through -17.5-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	0	1	0	0	0	0	0
70°	0	0	0	0	1	1	0	0	0	0	0
67.5°	0	0	0	0	1	1	1	1	1	1	1
65°	0	0	0	1	1	1	1	1	1	1	1
62.5°	0	1	0	1	1	2	1	1	2	2	2
60°	0	1	0	1	2	2	2	2	3	3	3
57.5°	0	1	1	1	2	2	3	3	4	5	6
55°	0	1	1	2	2	3	4	4	6	7	10
52.5°	0	1	1	2	3	3	5	6	7	12	14
50°	0	1	1	2	3	5	7	9	10	16	21
47.5°	0	1	1	2	4	6	9	11	15	22	30
45°	0	1	2	3	4	7	11	14	21	30	38
42.5°	0	1	2	3	5	9	14	19	27	38	51
40°	0	1	2	3	6	11	16	23	33	46	65
37.5°	0	1	2	4	7	12	19	29	41	57	79
35°	0	1	2	4	8	14	22	34	49	69	94
32.5°	0	1	3	5	9	16	26	39	57	81	109
30°	0	1	3	5	11	19	30	45	65	92	124
27.5°	0	1	3	6	12	21	34	51	74	102	139
25°	0	1	3	6	13	24	38	57	83	114	152
22.5°	0	1	3	7	14	26	42	64	92	126	169
20°	0	1	4	7	15	28	46	70	100	136	184
17.5°	0	1	4	8	16	30	49	75	108	146	198
15°	0	1	4	9	18	32	52	81	115	156	211
12.5°	0	1	4	9	19	34	55	84	120	165	222
10°	0	1	4	9	20	36	57	88	125	170	232
7.5°	0	1	4	10	21	38	60	91	128	175	239
5°	0	1	5	10	22	39	63	94	133	180	245
2.5°	0	1	5	10	22	40	64	96	134	182	250
0°	0	1	5	11	23	41	65	98	136	183	252
-2.5°	0	1	5	11	23	42	66	99	137	185	254
-5°	0	1	5	11	24	43	67	99	138	186	253
-7.5°	0	1	5	12	24	43	67	99	136	184	251
-10°	0	1	5	12	24	44	67	98	135	183	248
-12.5°	0	1	5	12	24	44	67	97	134	180	244
-15°	0	1	5	12	24	44	66	96	132	177	239
-17.5°	0	1	5	12	24	43	65	94	129	173	232
-20°	0	1	5	12	24	42	64	92	126	168	224



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 CATALOG NUMBER: NHRS50UBZ750-VS_50

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	1	5	12	24	41	63	89	122	162	214
-25°	0	1	5	12	23	40	61	86	117	156	202
-27.5°	0	1	5	12	23	39	58	82	113	149	194
-30°	0	1	5	11	22	37	56	79	107	142	184
-32.5°	0	1	4	11	21	35	53	75	102	135	174
-35°	0	1	4	10	20	33	50	71	97	127	162
-37.5°	0	1	4	10	19	31	47	67	91	119	151
-40°	0	1	4	9	18	29	45	63	84	111	141
-42.5°	0	1	4	9	16	27	41	58	79	103	130
-45°	0	1	4	7	15	26	38	53	72	94	118
-47.5°	0	1	4	7	14	23	34	49	66	85	108
-50°	0	1	3	6	13	21	31	45	59	77	97
-52.5°	0	1	3	6	12	19	29	40	53	68	87
-55°	0	1	3	6	10	17	26	36	47	60	76
-57.5°	0	1	3	5	9	15	23	32	41	53	66
-60°	0	1	3	5	7	13	20	28	36	46	57
-62.5°	0	1	2	4	7	12	17	24	31	38	48
-65°	0	1	2	4	6	10	15	20	26	32	40
-67.5°	0	1	2	3	5	8	12	16	21	27	33
-70°	0	1	2	3	5	7	10	13	17	21	26
-72.5°	0	1	2	3	4	6	8	10	13	16	20
-75°	0	1	2	2	3	5	6	8	10	12	15
-77.5°	0	1	1	2	3	4	5	6	7	9	10
-80°	0	1	1	2	2	3	3	5	6	7	7
-82.5°	0	0	1	1	2	2	3	3	4	5	5
-85°	0	0	1	1	1	1	2	2	3	3	4
-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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 CATALOG NUMBER: NHRS50UBZ750-VS_50

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	1	0	0	0	0	0
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	2	2	2	2	2	2	3	3	3	3
60°	3	3	4	5	5	4	5	6	6	5	7
57.5°	6	6	9	10	11	9	12	13	15	14	16
55°	10	11	15	19	20	20	23	29	30	33	35
52.5°	18	19	26	31	35	38	44	54	64	66	72
50°	25	32	38	47	55	64	77	95	116	127	143
47.5°	37	46	56	67	82	102	125	164	192	237	276
45°	52	64	75	95	119	153	204	251	319	387	493
42.5°	67	83	102	124	170	229	297	385	481	619	751
40°	84	103	132	174	233	322	431	547	712	900	1067
37.5°	102	131	166	224	324	443	586	781	995	1246	1413
35°	121	158	211	290	416	586	798	1032	1298	1598	1809
32.5°	144	188	256	367	532	748	1029	1299	1607	1930	2193
30°	168	225	306	441	658	941	1256	1557	1912	2241	2509
27.5°	188	263	371	543	793	1123	1463	1829	2209	2557	2838
25°	208	294	432	654	951	1305	1675	2080	2505	2878	3194
22.5°	230	323	483	762	1098	1486	1894	2327	2771	3197	3548
20°	254	365	547	848	1229	1662	2096	2561	3013	3439	3838
17.5°	276	403	616	939	1344	1814	2285	2799	3234	3652	4032
15°	296	437	674	1018	1448	1929	2427	2953	3422	3830	4195
12.5°	314	466	723	1084	1536	2026	2536	3051	3536	3960	4328
10°	329	491	762	1138	1609	2104	2619	3126	3615	4052	4445
7.5°	341	512	793	1179	1665	2165	2678	3175	3679	4134	4545
5°	350	527	819	1221	1711	2212	2718	3200	3725	4203	4626
2.5°	358	541	840	1261	1750	2260	2760	3257	3782	4278	4695
0°	362	545	845	1276	1756	2270	2761	3272	3793	4310	4714
-2.5°	364	548	851	1281	1766	2275	2774	3276	3810	4300	4700
-5°	361	541	841	1260	1742	2243	2747	3239	3779	4256	4653
-7.5°	357	532	826	1236	1721	2226	2739	3239	3763	4233	4615
-10°	350	522	809	1216	1699	2206	2717	3218	3726	4191	4566
-12.5°	343	510	784	1180	1659	2165	2674	3175	3671	4133	4507
-15°	333	491	750	1128	1600	2105	2612	3111	3596	4054	4431
-17.5°	321	467	705	1058	1522	2026	2529	3039	3498	3948	4321
-20°	305	436	651	972	1426	1921	2417	2903	3377	3823	4207



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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°	287	398	598	898	1312	1788	2283	2768	3235	3689	4055
-25°	270	375	552	813	1180	1632	2128	2611	3070	3490	3857
-27.5°	256	349	494	715	1032	1458	1942	2423	2852	3269	3649
-30°	240	317	431	616	905	1284	1727	2181	2599	3011	3402
-32.5°	222	287	385	542	774	1095	1476	1900	2315	2716	3122
-35°	204	263	345	463	642	917	1238	1596	2007	2394	2737
-37.5°	190	239	302	396	544	740	1010	1316	1666	2050	2340
-40°	175	214	271	348	445	591	803	1047	1340	1632	1946
-42.5°	161	196	242	296	375	481	615	826	1031	1262	1512
-45°	146	178	213	261	315	387	496	614	779	935	1134
-47.5°	133	160	193	225	267	322	387	479	562	689	808
-50°	119	144	170	197	229	267	316	366	431	495	576
-52.5°	106	128	150	173	198	226	258	293	333	371	422
-55°	93	113	131	151	171	193	215	241	263	293	319
-57.5°	81	97	114	131	148	165	184	200	220	237	255
-60°	70	83	97	111	126	141	155	170	184	196	211
-62.5°	59	70	81	93	107	118	131	143	157	166	175
-65°	49	57	67	78	89	98	108	118	128	137	144
-67.5°	39	47	54	62	71	79	86	94	102	109	116
-70°	31	36	42	48	55	60	67	73	79	84	89
-72.5°	24	28	32	36	40	45	49	53	58	63	66
-75°	18	20	23	26	29	31	34	37	41	44	47
-77.5°	12	14	16	18	19	21	23	25	27	29	30
-80°	9	9	11	12	13	14	15	16	17	18	20
-82.5°	6	7	7	8	9	10	11	11	12	13	14
-85°	4	5	6	6	7	7	8	9	9	10	10
-87.5°	2	3	3	3	4	4	4	5	5	6	6
-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	1	1	1	1	1	1	1
62.5°	3	3	3	3	3	3	3	3	3	4	4
60°	7	6	6	6	6	6	7	7	7	7	7
57.5°	18	16	13	18	18	15	16	19	18	14	15
55°	39	42	39	48	54	52	50	61	66	66	65
52.5°	81	101	107	110	124	134	143	154	163	168	177
50°	180	205	214	198	252	279	260	282	304	294	289
47.5°	346	380	415	457	503	532	531	534	571	592	606
45°	576	641	705	779	838	865	905	972	986	1011	1035
42.5°	843	915	1007	1109	1142	1202	1254	1287	1329	1348	1357
40°	1154	1211	1402	1495	1499	1534	1640	1610	1621	1668	1620
37.5°	1541	1710	1901	1990	2043	2141	2183	2195	2196	2200	2201
35°	1983	2201	2469	2544	2635	2729	2778	2785	2826	2836	2836
32.5°	2383	2627	2858	2997	3087	3150	3227	3223	3228	3235	3231
30°	2723	2995	3211	3342	3387	3468	3529	3536	3518	3495	3482
27.5°	3098	3351	3569	3657	3690	3788	3852	3808	3820	3727	3730
25°	3477	3733	3927	4049	4120	4237	4292	4270	4272	4195	4149
22.5°	3835	4079	4301	4488	4597	4707	4793	4792	4809	4753	4721
20°	4163	4412	4629	4839	4984	5074	5141	5143	5137	5088	5054
17.5°	4383	4684	4900	5089	5229	5296	5328	5342	5314	5280	5241
15°	4546	4858	5105	5260	5366	5435	5470	5471	5459	5429	5387
12.5°	4686	4996	5230	5383	5490	5556	5591	5602	5594	5567	5527
10°	4805	5105	5320	5476	5592	5671	5719	5740	5727	5697	5660
7.5°	4900	5176	5393	5562	5692	5777	5829	5855	5851	5819	5783
5°	4969	5226	5449	5625	5763	5861	5924	5954	5944	5917	5881
2.5°	5025	5273	5504	5678	5820	5920	5982	6007	5997	5965	5922
0°	5037	5307	5536	5725	5878	5983	6046	6067	6052	6008	5955
-2.5°	5014	5272	5501	5679	5828	5924	5984	6008	5995	5957	5913
-5°	4962	5215	5435	5615	5758	5857	5916	5946	5938	5908	5874
-7.5°	4913	5156	5366	5539	5675	5767	5819	5847	5848	5810	5773
-10°	4854	5087	5285	5446	5571	5659	5709	5729	5713	5685	5653
-12.5°	4784	5008	5194	5349	5463	5540	5581	5594	5589	5567	5523
-15°	4704	4920	5097	5239	5349	5420	5456	5472	5466	5435	5392
-17.5°	4605	4822	4989	5126	5238	5303	5338	5354	5333	5297	5259
-20°	4496	4717	4870	5003	5106	5173	5212	5216	5194	5152	5103



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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°	4337	4566	4747	4866	4956	5023	5056	5055	5036	4987	4933
-25°	4158	4408	4584	4701	4794	4860	4875	4875	4844	4795	4748
-27.5°	3953	4193	4377	4510	4610	4653	4671	4675	4630	4579	4543
-30°	3728	3939	4125	4284	4368	4414	4437	4424	4389	4351	4322
-32.5°	3408	3656	3848	3996	4084	4135	4179	4144	4109	4093	4074
-35°	3049	3304	3535	3648	3743	3808	3836	3822	3795	3801	3789
-37.5°	2637	2908	3108	3252	3347	3425	3453	3454	3454	3458	3450
-40°	2206	2468	2646	2796	2902	2977	3012	3030	3057	3064	3055
-42.5°	1761	1978	2157	2301	2418	2493	2531	2546	2597	2619	2622
-45°	1330	1507	1654	1792	1898	1972	2021	2081	2107	2133	2151
-47.5°	956	1080	1204	1307	1398	1472	1506	1549	1610	1641	1664
-50°	663	743	836	899	984	1044	1067	1118	1167	1195	1219
-52.5°	469	527	568	610	675	714	732	774	805	822	842
-55°	353	385	405	441	472	490	507	537	553	557	568
-57.5°	277	294	311	334	349	359	374	391	401	406	413
-60°	223	235	249	262	272	280	292	301	308	312	316
-62.5°	184	193	202	211	218	224	234	241	246	250	253
-65°	151	158	165	171	177	183	188	194	198	202	204
-67.5°	122	127	132	137	142	146	151	154	158	160	162
-70°	94	99	102	106	109	113	117	120	123	124	126
-72.5°	70	73	76	79	82	84	87	90	91	93	93
-75°	50	53	55	56	58	60	62	64	65	66	66
-77.5°	32	34	36	37	38	39	40	41	42	42	42
-80°	21	22	23	24	24	25	26	26	27	27	27
-82.5°	14	15	16	16	17	18	18	19	19	19	19
-85°	11	11	12	12	13	13	14	14	15	15	15
-87.5°	7	7	8	9	9	10	10	11	12	12	12
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731779
 CATALOG NUMBER: NHRS50UBZ750-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°	4	4	4	4	4	4	4	4	4	3	3
60°	7	7	7	7	7	7	7	7	7	7	7
57.5°	15	14	14	13	14	14	15	15	14	18	19
55°	59	50	46	43	46	50	59	65	66	66	61
52.5°	186	192	200	198	200	192	186	177	168	163	154
50°	292	290	295	300	295	290	292	289	294	304	282
47.5°	602	568	551	548	551	568	602	606	592	571	534
45°	1063	1083	1119	1131	1119	1083	1063	1035	1011	986	972
42.5°	1373	1377	1387	1395	1387	1377	1373	1357	1348	1329	1287
40°	1617	1607	1600	1600	1600	1607	1617	1620	1668	1621	1610
37.5°	2225	2202	2169	2172	2169	2202	2225	2201	2200	2196	2195
35°	2848	2863	2889	2879	2889	2863	2848	2836	2836	2826	2785
32.5°	3223	3225	3225	3221	3225	3225	3223	3231	3235	3228	3223
30°	3454	3439	3414	3424	3414	3439	3454	3482	3495	3518	3536
27.5°	3678	3647	3611	3614	3611	3647	3678	3730	3727	3820	3808
25°	4134	4105	4045	4056	4045	4105	4134	4149	4195	4272	4270
22.5°	4675	4670	4673	4674	4673	4670	4675	4721	4753	4809	4792
20°	5008	4975	4961	4975	4961	4975	5008	5054	5088	5137	5143
17.5°	5190	5167	5161	5172	5161	5167	5190	5241	5280	5314	5342
15°	5345	5323	5319	5329	5319	5323	5345	5387	5429	5459	5471
12.5°	5487	5456	5451	5479	5451	5456	5487	5527	5567	5594	5602
10°	5622	5578	5572	5599	5572	5578	5622	5660	5697	5727	5740
7.5°	5740	5690	5677	5718	5677	5690	5740	5783	5819	5851	5855
5°	5828	5779	5735	5793	5735	5779	5828	5881	5917	5944	5954
2.5°	5860	5823	5793	5813	5793	5823	5860	5922	5965	5997	6007
0°	5866	5814	5802	5786	5802	5814	5866	5955	6008	6052	6067
-2.5°	5858	5818	5794	5781	5794	5818	5858	5913	5957	5995	6008
-5°	5814	5777	5733	5751	5733	5777	5814	5874	5908	5938	5946
-7.5°	5737	5678	5662	5680	5662	5678	5737	5773	5810	5848	5847
-10°	5605	5562	5552	5561	5552	5562	5605	5653	5685	5713	5729
-12.5°	5479	5447	5437	5427	5437	5447	5479	5523	5567	5589	5594
-15°	5351	5322	5310	5304	5310	5322	5351	5392	5435	5466	5472
-17.5°	5212	5181	5160	5151	5160	5181	5212	5259	5297	5333	5354
-20°	5059	5017	4994	4978	4994	5017	5059	5103	5152	5194	5216



REPORT NUMBER: P731779
 CATALOG NUMBER: NHRS50UBZ750-VS_50

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	4890	4849	4823	4809	4823	4849	4890	4933	4987	5036	5055
-25°	4706	4673	4639	4634	4639	4673	4706	4748	4795	4844	4875
-27.5°	4501	4478	4446	4429	4446	4478	4501	4543	4579	4630	4675
-30°	4280	4267	4246	4224	4246	4267	4280	4322	4351	4389	4424
-32.5°	4049	4038	4022	4009	4022	4038	4049	4074	4093	4109	4144
-35°	3780	3772	3761	3738	3761	3772	3780	3789	3801	3795	3822
-37.5°	3456	3455	3450	3434	3450	3455	3456	3450	3458	3454	3454
-40°	3073	3075	3077	3064	3077	3075	3073	3055	3064	3057	3030
-42.5°	2645	2647	2651	2633	2651	2647	2645	2622	2619	2597	2546
-45°	2176	2178	2186	2180	2186	2178	2176	2151	2133	2107	2081
-47.5°	1688	1693	1701	1687	1701	1693	1688	1664	1641	1610	1549
-50°	1236	1236	1243	1233	1243	1236	1236	1219	1195	1167	1118
-52.5°	852	847	853	849	853	847	852	842	822	805	774
-55°	573	573	575	572	575	573	573	568	557	553	537
-57.5°	416	415	417	416	417	415	416	413	406	401	391
-60°	319	320	322	321	322	320	319	316	312	308	301
-62.5°	255	255	256	255	256	255	255	253	250	246	241
-65°	205	206	208	207	208	206	205	204	202	198	194
-67.5°	164	166	166	165	166	166	164	162	160	158	154
-70°	126	127	127	126	127	127	126	126	124	123	120
-72.5°	94	94	94	93	94	94	94	93	93	91	90
-75°	66	66	65	65	65	66	66	66	66	65	64
-77.5°	42	42	42	41	42	42	42	42	42	42	41
-80°	28	28	27	27	27	28	28	27	27	27	26
-82.5°	20	20	20	20	20	20	20	19	19	19	19
-85°	15	15	15	15	15	15	15	15	15	15	14
-87.5°	12	12	12	12	12	12	12	12	12	12	11
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731779
 CATALOG NUMBER: NHRS50UBZ750-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	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	1	1	1	1	1	1	1
62.5°	3	3	3	3	3	3	3	3	3	3	3
60°	7	6	6	6	6	6	7	7	5	6	6
57.5°	16	15	18	18	13	16	18	16	14	15	13
55°	50	52	54	48	39	42	39	35	33	30	29
52.5°	143	134	124	110	107	101	81	72	66	64	54
50°	260	279	252	198	214	205	180	143	127	116	95
47.5°	531	532	503	457	415	380	346	276	237	192	164
45°	905	865	838	779	705	641	576	493	387	319	251
42.5°	1254	1202	1142	1109	1007	915	843	751	619	481	385
40°	1640	1534	1499	1495	1402	1211	1154	1067	900	712	547
37.5°	2183	2141	2043	1990	1901	1710	1541	1413	1246	995	781
35°	2778	2729	2635	2544	2469	2201	1983	1809	1598	1298	1032
32.5°	3227	3150	3087	2997	2858	2627	2383	2193	1930	1607	1299
30°	3529	3468	3387	3342	3211	2995	2723	2509	2241	1912	1557
27.5°	3852	3788	3690	3657	3569	3351	3098	2838	2557	2209	1829
25°	4292	4237	4120	4049	3927	3733	3477	3194	2878	2505	2080
22.5°	4793	4707	4597	4488	4301	4079	3835	3548	3197	2771	2327
20°	5141	5074	4984	4839	4629	4412	4163	3838	3439	3013	2561
17.5°	5328	5296	5229	5089	4900	4684	4383	4032	3652	3234	2799
15°	5470	5435	5366	5260	5105	4858	4546	4195	3830	3422	2953
12.5°	5591	5556	5490	5383	5230	4996	4686	4328	3960	3536	3051
10°	5719	5671	5592	5476	5320	5105	4805	4445	4052	3615	3126
7.5°	5829	5777	5692	5562	5393	5176	4900	4545	4134	3679	3175
5°	5924	5861	5763	5625	5449	5226	4969	4626	4203	3725	3200
2.5°	5982	5920	5820	5678	5504	5273	5025	4695	4278	3782	3257
0°	6046	5983	5878	5725	5536	5307	5037	4714	4310	3793	3272
-2.5°	5984	5924	5828	5679	5501	5272	5014	4700	4300	3810	3276
-5°	5916	5857	5758	5615	5435	5215	4962	4653	4256	3779	3239
-7.5°	5819	5767	5675	5539	5366	5156	4913	4615	4233	3763	3239
-10°	5709	5659	5571	5446	5285	5087	4854	4566	4191	3726	3218
-12.5°	5581	5540	5463	5349	5194	5008	4784	4507	4133	3671	3175
-15°	5456	5420	5349	5239	5097	4920	4704	4431	4054	3596	3111
-17.5°	5338	5303	5238	5126	4989	4822	4605	4321	3948	3498	3039
-20°	5212	5173	5106	5003	4870	4717	4496	4207	3823	3377	2903



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 CATALOG NUMBER: NHRS50UBZ750-VS_50

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5056	5023	4956	4866	4747	4566	4337	4055	3689	3235	2768
-25°	4875	4860	4794	4701	4584	4408	4158	3857	3490	3070	2611
-27.5°	4671	4653	4610	4510	4377	4193	3953	3649	3269	2852	2423
-30°	4437	4414	4368	4284	4125	3939	3728	3402	3011	2599	2181
-32.5°	4179	4135	4084	3996	3848	3656	3408	3122	2716	2315	1900
-35°	3836	3808	3743	3648	3535	3304	3049	2737	2394	2007	1596
-37.5°	3453	3425	3347	3252	3108	2908	2637	2340	2050	1666	1316
-40°	3012	2977	2902	2796	2646	2468	2206	1946	1632	1340	1047
-42.5°	2531	2493	2418	2301	2157	1978	1761	1512	1262	1031	826
-45°	2021	1972	1898	1792	1654	1507	1330	1134	935	779	614
-47.5°	1506	1472	1398	1307	1204	1080	956	808	689	562	479
-50°	1067	1044	984	899	836	743	663	576	495	431	366
-52.5°	732	714	675	610	568	527	469	422	371	333	293
-55°	507	490	472	441	405	385	353	319	293	263	241
-57.5°	374	359	349	334	311	294	277	255	237	220	200
-60°	292	280	272	262	249	235	223	211	196	184	170
-62.5°	234	224	218	211	202	193	184	175	166	157	143
-65°	188	183	177	171	165	158	151	144	137	128	118
-67.5°	151	146	142	137	132	127	122	116	109	102	94
-70°	117	113	109	106	102	99	94	89	84	79	73
-72.5°	87	84	82	79	76	73	70	66	63	58	53
-75°	62	60	58	56	55	53	50	47	44	41	37
-77.5°	40	39	38	37	36	34	32	30	29	27	25
-80°	26	25	24	24	23	22	21	20	18	17	16
-82.5°	18	18	17	16	16	15	14	14	13	12	11
-85°	14	13	13	12	12	11	11	10	10	9	9
-87.5°	10	10	9	9	8	7	7	6	6	5	5
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731779
 CATALOG NUMBER: NHRS50UBZ750-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°	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	0	1	1	1	0	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	2	2	2	2	2	2	1	2	2	2	1
60°	5	4	5	5	4	3	3	3	3	3	2
57.5°	12	9	11	10	9	6	6	6	5	4	3
55°	23	20	20	19	15	11	10	10	7	6	4
52.5°	44	38	35	31	26	19	18	14	12	7	6
50°	77	64	55	47	38	32	25	21	16	10	9
47.5°	125	102	82	67	56	46	37	30	22	15	11
45°	204	153	119	95	75	64	52	38	30	21	14
42.5°	297	229	170	124	102	83	67	51	38	27	19
40°	431	322	233	174	132	103	84	65	46	33	23
37.5°	586	443	324	224	166	131	102	79	57	41	29
35°	798	586	416	290	211	158	121	94	69	49	34
32.5°	1029	748	532	367	256	188	144	109	81	57	39
30°	1256	941	658	441	306	225	168	124	92	65	45
27.5°	1463	1123	793	543	371	263	188	139	102	74	51
25°	1675	1305	951	654	432	294	208	152	114	83	57
22.5°	1894	1486	1098	762	483	323	230	169	126	92	64
20°	2096	1662	1229	848	547	365	254	184	136	100	70
17.5°	2285	1814	1344	939	616	403	276	198	146	108	75
15°	2427	1929	1448	1018	674	437	296	211	156	115	81
12.5°	2536	2026	1536	1084	723	466	314	222	165	120	84
10°	2619	2104	1609	1138	762	491	329	232	170	125	88
7.5°	2678	2165	1665	1179	793	512	341	239	175	128	91
5°	2718	2212	1711	1221	819	527	350	245	180	133	94
2.5°	2760	2260	1750	1261	840	541	358	250	182	134	96
0°	2761	2270	1756	1276	845	545	362	252	183	136	98
-2.5°	2774	2275	1766	1281	851	548	364	254	185	137	99
-5°	2747	2243	1742	1260	841	541	361	253	186	138	99
-7.5°	2739	2226	1721	1236	826	532	357	251	184	136	99
-10°	2717	2206	1699	1216	809	522	350	248	183	135	98
-12.5°	2674	2165	1659	1180	784	510	343	244	180	134	97
-15°	2612	2105	1600	1128	750	491	333	239	177	132	96
-17.5°	2529	2026	1522	1058	705	467	321	232	173	129	94
-20°	2417	1921	1426	972	651	436	305	224	168	126	92



REPORT NUMBER: P731779
 CATALOG NUMBER: NHRS50UBZ750-VS_50

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2283	1788	1312	898	598	398	287	214	162	122	89
-25°	2128	1632	1180	813	552	375	270	202	156	117	86
-27.5°	1942	1458	1032	715	494	349	256	194	149	113	82
-30°	1727	1284	905	616	431	317	240	184	142	107	79
-32.5°	1476	1095	774	542	385	287	222	174	135	102	75
-35°	1238	917	642	463	345	263	204	162	127	97	71
-37.5°	1010	740	544	396	302	239	190	151	119	91	67
-40°	803	591	445	348	271	214	175	141	111	84	63
-42.5°	615	481	375	296	242	196	161	130	103	79	58
-45°	496	387	315	261	213	178	146	118	94	72	53
-47.5°	387	322	267	225	193	160	133	108	85	66	49
-50°	316	267	229	197	170	144	119	97	77	59	45
-52.5°	258	226	198	173	150	128	106	87	68	53	40
-55°	215	193	171	151	131	113	93	76	60	47	36
-57.5°	184	165	148	131	114	97	81	66	53	41	32
-60°	155	141	126	111	97	83	70	57	46	36	28
-62.5°	131	118	107	93	81	70	59	48	38	31	24
-65°	108	98	89	78	67	57	49	40	32	26	20
-67.5°	86	79	71	62	54	47	39	33	27	21	16
-70°	67	60	55	48	42	36	31	26	21	17	13
-72.5°	49	45	40	36	32	28	24	20	16	13	10
-75°	34	31	29	26	23	20	18	15	12	10	8
-77.5°	23	21	19	18	16	14	12	10	9	7	6
-80°	15	14	13	12	11	9	9	7	7	6	5
-82.5°	11	10	9	8	7	7	6	5	5	4	3
-85°	8	7	7	6	6	5	4	4	3	3	2
-87.5°	4	4	4	3	3	3	2	2	2	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731779
 CATALOG NUMBER: NHRS50UBZ750-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°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
72.5°	0	1	0	0	0	0	0
70°	0	1	1	0	0	0	0
67.5°	1	1	1	0	0	0	0
65°	1	1	1	1	0	0	0
62.5°	1	2	1	1	0	1	0
60°	2	2	2	1	0	1	0
57.5°	3	2	2	1	1	1	0
55°	4	3	2	2	1	1	0
52.5°	5	3	3	2	1	1	0
50°	7	5	3	2	1	1	0
47.5°	9	6	4	2	1	1	0
45°	11	7	4	3	2	1	0
42.5°	14	9	5	3	2	1	0
40°	16	11	6	3	2	1	0
37.5°	19	12	7	4	2	1	0
35°	22	14	8	4	2	1	0
32.5°	26	16	9	5	3	1	0
30°	30	19	11	5	3	1	0
27.5°	34	21	12	6	3	1	0
25°	38	24	13	6	3	1	0
22.5°	42	26	14	7	3	1	0
20°	46	28	15	7	4	1	0
17.5°	49	30	16	8	4	1	0
15°	52	32	18	9	4	1	0
12.5°	55	34	19	9	4	1	0
10°	57	36	20	9	4	1	0
7.5°	60	38	21	10	4	1	0
5°	63	39	22	10	5	1	0
2.5°	64	40	22	10	5	1	0
0°	65	41	23	11	5	1	0
-2.5°	66	42	23	11	5	1	0
-5°	67	43	24	11	5	1	0
-7.5°	67	43	24	12	5	1	0
-10°	67	44	24	12	5	1	0
-12.5°	67	44	24	12	5	1	0
-15°	66	44	24	12	5	1	0
-17.5°	65	43	24	12	5	1	0
-20°	64	42	24	12	5	1	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	63	41	24	12	5	1	0
-25°	61	40	23	12	5	1	0
-27.5°	58	39	23	12	5	1	0
-30°	56	37	22	11	5	1	0
-32.5°	53	35	21	11	4	1	0
-35°	50	33	20	10	4	1	0
-37.5°	47	31	19	10	4	1	0
-40°	45	29	18	9	4	1	0
-42.5°	41	27	16	9	4	1	0
-45°	38	26	15	7	4	1	0
-47.5°	34	23	14	7	4	1	0
-50°	31	21	13	6	3	1	0
-52.5°	29	19	12	6	3	1	0
-55°	26	17	10	6	3	1	0
-57.5°	23	15	9	5	3	1	0
-60°	20	13	7	5	3	1	0
-62.5°	17	12	7	4	2	1	0
-65°	15	10	6	4	2	1	0
-67.5°	12	8	5	3	2	1	0
-70°	10	7	5	3	2	1	0
-72.5°	8	6	4	3	2	1	0
-75°	6	5	3	2	2	1	0
-77.5°	5	4	3	2	1	1	0
-80°	3	3	2	2	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)