

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: P731771

Luminaire Tested: **NHRS50UBZ740-VS_50**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731771
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ740-VS_50
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 4000K WITH VISOR @ 50% output
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

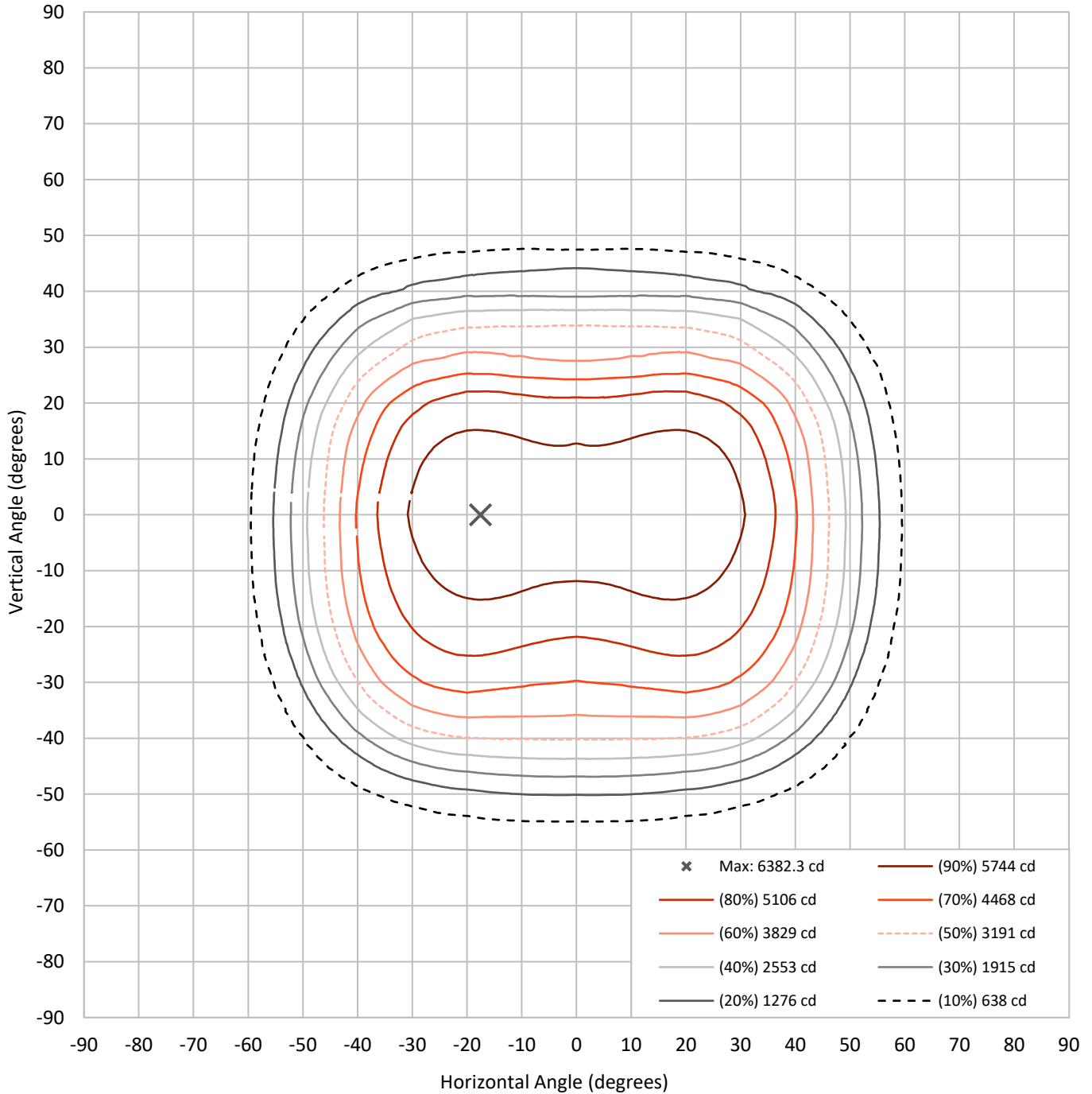
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	10762.3 lumens	Max Intensity:	6382.3 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	143.3 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:	8462.4 lumens	Field Lumens:	10410.5 lumens
Beam Efficiency:	78.6%	Field Efficiency:	96.7%
Input Watts (W):	75.1		
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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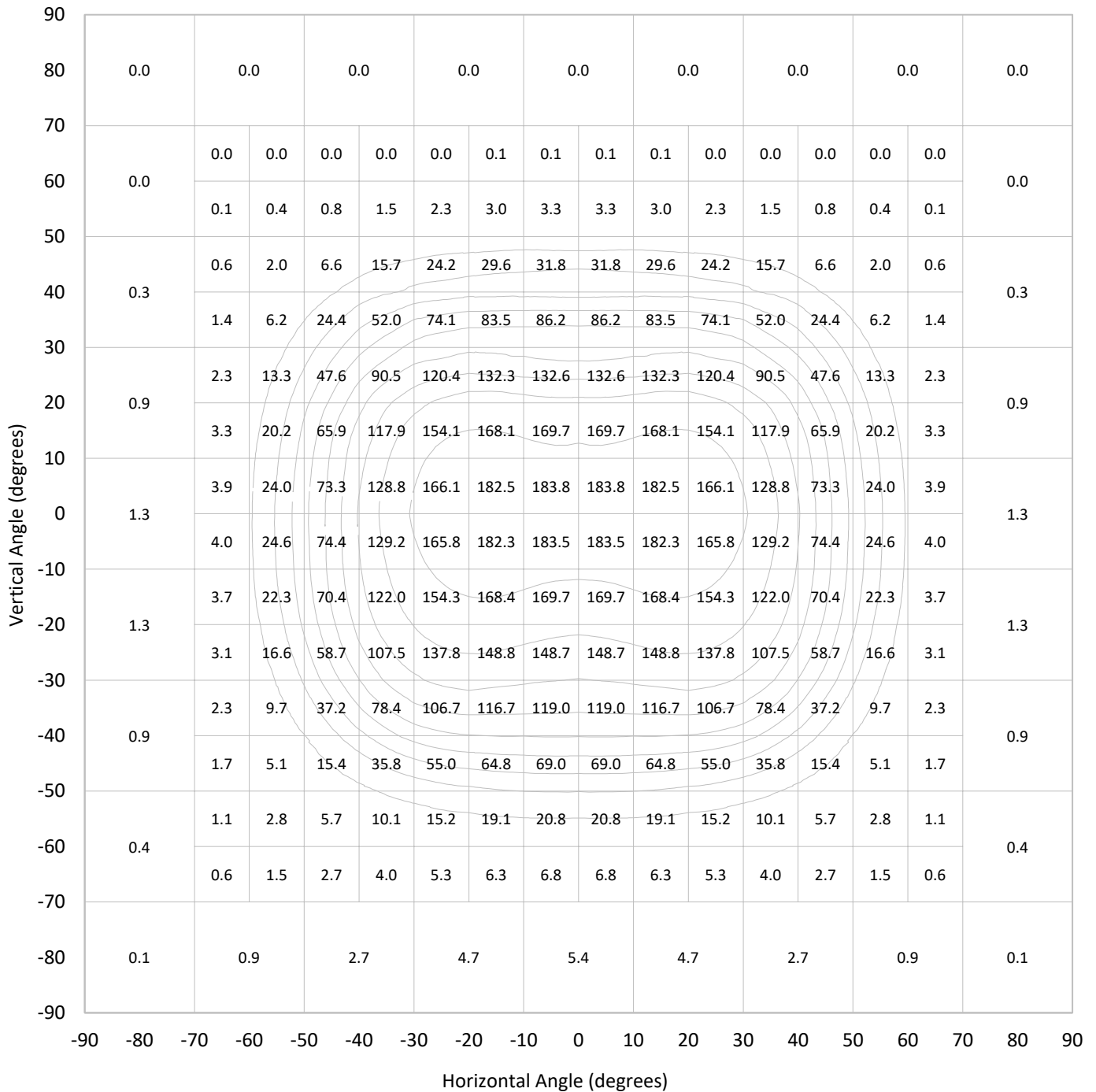
Iso-Candela Plot





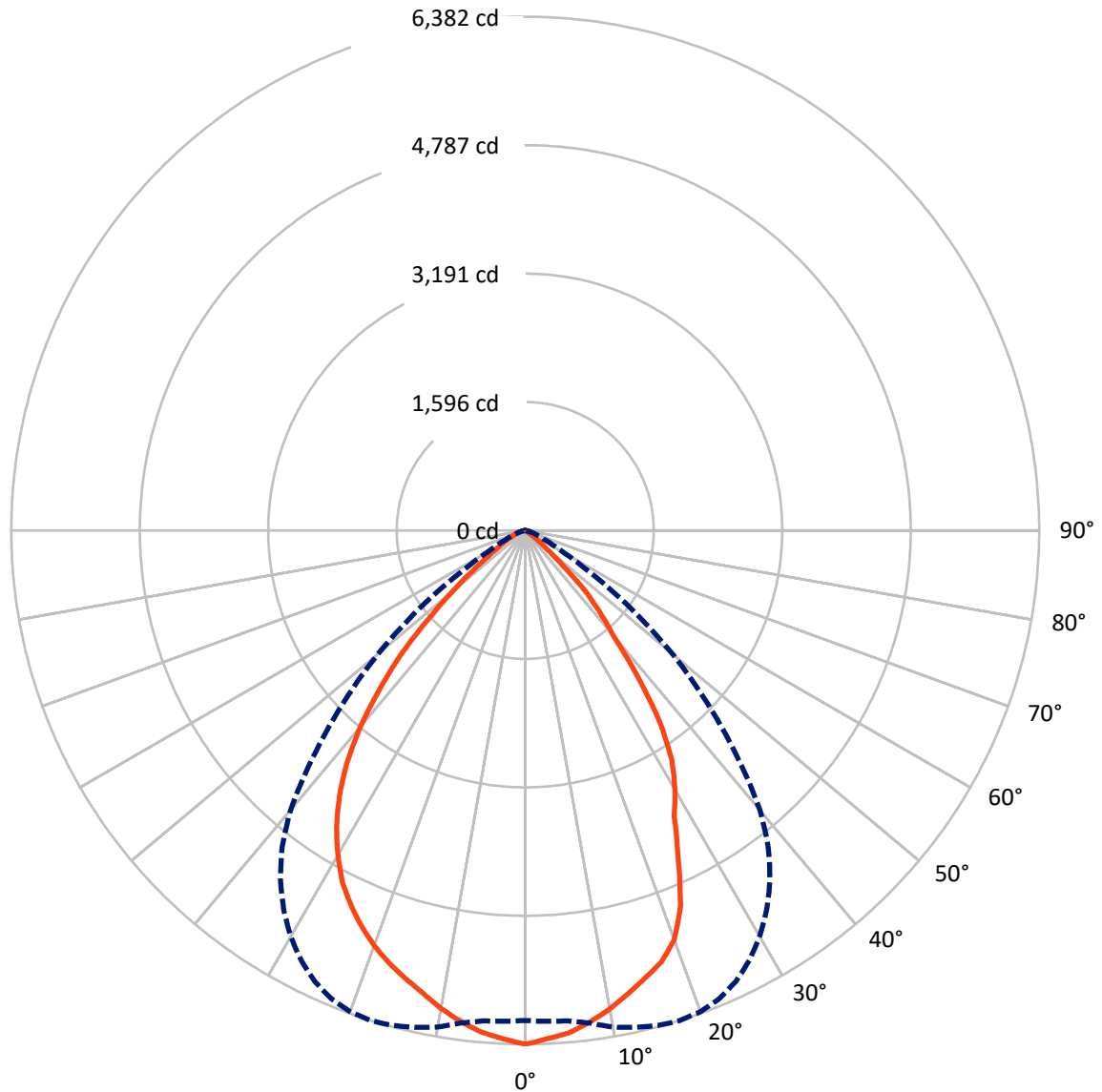
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Lumen Table



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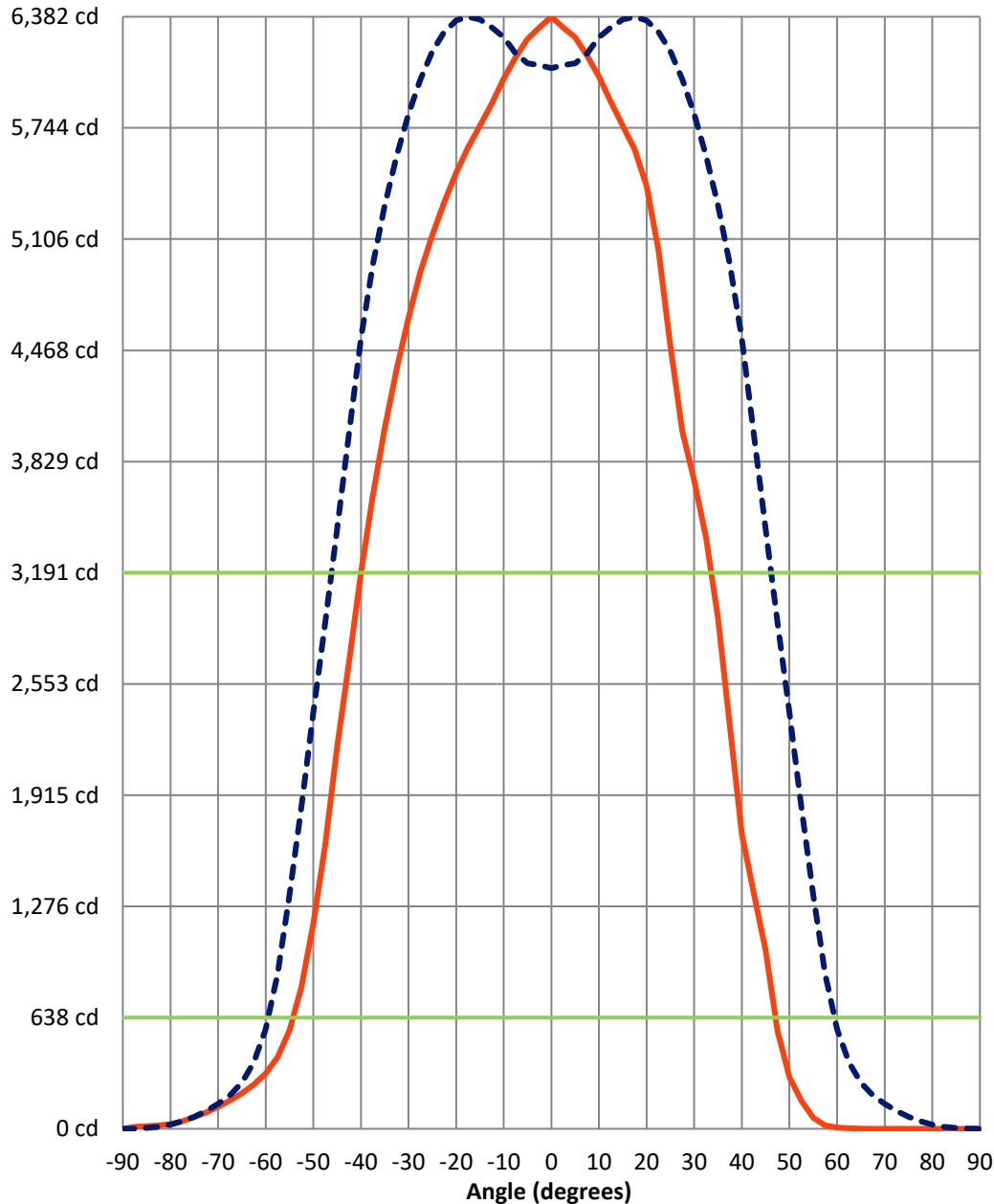
Luminous Intensity Polar Plot



— 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: 8462.4
 Efficiency: 78.6%

Field:
 H Angle: 119°
 V Angle: 101.3°
 Lumens: 10410.5
 Efficiency: 96.7%

Spill:
 Lumens: 351.8
 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	4	4
57.5°	0	1	1	1	2	3	3	3	4	5	6
55°	0	1	1	2	2	3	4	4	6	7	10
52.5°	0	1	1	2	3	4	5	6	8	12	15
50°	0	1	1	2	3	5	7	9	11	17	22
47.5°	0	1	1	2	4	6	9	12	16	22	31
45°	0	1	2	3	5	8	12	15	22	31	40
42.5°	0	1	2	3	5	10	14	20	28	40	54
40°	0	1	2	4	6	11	17	25	35	49	68
37.5°	0	1	2	4	7	13	20	30	44	59	83
35°	0	1	2	5	9	15	23	36	52	72	99
32.5°	0	1	3	5	10	18	27	41	60	85	115
30°	0	1	3	6	11	20	31	47	68	97	131
27.5°	0	1	3	6	12	22	36	54	78	108	146
25°	0	1	3	7	14	25	40	61	87	120	160
22.5°	0	1	3	7	15	27	44	67	96	132	178
20°	0	1	4	8	16	30	48	73	105	144	194
17.5°	0	1	4	8	18	32	52	79	113	154	209
15°	0	1	4	9	19	34	55	84	121	164	222
12.5°	0	1	4	9	20	36	58	89	127	173	234
10°	0	1	4	10	21	38	61	92	132	179	244
7.5°	0	1	4	10	22	39	63	96	135	184	252
5°	0	1	5	11	23	41	66	99	140	189	257
2.5°	0	1	5	11	23	42	67	101	142	191	263
0°	0	1	5	11	24	44	69	102	143	193	265
-2.5°	0	1	5	12	24	45	70	104	144	194	266
-5°	0	1	5	12	25	46	71	105	145	196	265
-7.5°	0	1	5	12	26	46	71	104	144	194	264
-10°	0	1	5	12	26	46	71	103	143	192	261
-12.5°	0	1	5	12	26	46	71	102	141	190	256
-15°	0	1	5	12	26	46	70	100	139	186	251
-17.5°	0	1	5	12	26	45	69	99	136	182	244
-20°	0	1	5	12	26	45	67	96	132	177	236



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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	5	12	25	44	66	93	128	171	225
-25°	0	1	5	12	24	42	64	90	124	163	213
-27.5°	0	1	5	12	24	40	62	87	118	156	204
-30°	0	1	5	12	23	39	59	82	113	149	194
-32.5°	0	1	5	11	22	37	56	79	108	142	183
-35°	0	1	5	11	21	34	53	75	102	134	170
-37.5°	0	1	4	10	20	32	50	71	96	125	159
-40°	0	1	4	10	18	30	47	66	89	117	148
-42.5°	0	1	4	9	17	28	43	61	82	108	136
-45°	0	1	4	8	16	27	39	56	76	99	124
-47.5°	0	1	4	7	15	24	36	52	70	89	113
-50°	0	1	4	7	13	22	33	47	63	81	101
-52.5°	0	1	3	6	12	20	30	42	56	72	91
-55°	0	1	3	6	11	18	27	37	50	63	80
-57.5°	0	1	3	5	10	16	24	33	44	56	70
-60°	0	1	3	5	8	14	21	29	37	48	60
-62.5°	0	1	2	5	7	12	18	25	32	40	51
-65°	0	1	2	4	6	10	15	21	27	34	42
-67.5°	0	1	2	3	6	9	13	18	22	28	35
-70°	0	1	2	3	5	7	10	14	18	22	28
-72.5°	0	1	2	3	4	6	9	11	14	18	21
-75°	0	1	2	2	3	5	7	9	10	13	16
-77.5°	0	1	1	2	3	4	5	7	8	9	11
-80°	0	1	1	2	2	3	3	5	6	7	8
-82.5°	0	0	1	1	2	2	3	3	4	5	6
-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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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	3	3	3	3	3
60°	3	3	5	5	5	5	5	7	6	5	7
57.5°	6	6	9	11	11	9	13	14	15	14	16
55°	11	11	16	20	21	21	24	31	32	35	37
52.5°	18	19	27	32	37	40	46	57	67	70	76
50°	27	33	40	50	58	67	81	100	122	134	150
47.5°	39	48	59	71	87	108	132	172	202	249	291
45°	54	67	80	100	126	161	215	264	336	408	519
42.5°	71	88	108	131	179	241	311	405	506	651	790
40°	88	108	139	184	245	339	453	575	748	946	1123
37.5°	108	137	175	236	340	465	616	821	1047	1311	1486
35°	128	167	222	305	438	617	839	1086	1365	1680	1903
32.5°	152	198	269	386	560	787	1082	1367	1690	2030	2306
30°	177	237	322	464	693	990	1322	1638	2012	2357	2640
27.5°	198	276	390	571	834	1181	1539	1924	2323	2691	2986
25°	219	309	455	688	1001	1373	1762	2188	2635	3028	3360
22.5°	242	340	508	801	1156	1563	1992	2448	2915	3363	3733
20°	267	384	576	891	1294	1748	2206	2694	3170	3618	4038
17.5°	290	424	647	987	1415	1908	2404	2945	3403	3842	4242
15°	311	460	709	1071	1523	2029	2554	3106	3601	4029	4413
12.5°	330	490	760	1141	1616	2131	2668	3211	3719	4166	4553
10°	346	517	802	1197	1692	2214	2756	3288	3803	4262	4676
7.5°	358	538	834	1241	1751	2277	2818	3340	3870	4349	4781
5°	368	554	861	1285	1799	2327	2859	3367	3918	4421	4866
2.5°	377	569	883	1326	1841	2377	2903	3427	3979	4501	4939
0°	381	573	889	1342	1848	2388	2904	3442	3990	4534	4959
-2.5°	383	576	896	1347	1858	2393	2919	3447	4008	4524	4944
-5°	379	569	885	1325	1833	2360	2890	3407	3976	4477	4895
-7.5°	375	560	869	1300	1810	2342	2881	3408	3959	4453	4855
-10°	368	549	851	1279	1788	2320	2858	3386	3920	4409	4804
-12.5°	361	536	825	1241	1745	2278	2813	3341	3862	4348	4742
-15°	351	517	788	1186	1682	2215	2748	3273	3783	4265	4662
-17.5°	337	491	742	1113	1601	2131	2661	3197	3680	4153	4546
-20°	321	458	684	1022	1501	2020	2543	3055	3552	4022	4426



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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°	301	419	629	944	1380	1881	2402	2911	3403	3880	4265
-25°	284	394	580	855	1241	1716	2239	2747	3230	3671	4057
-27.5°	269	367	519	752	1086	1533	2043	2549	3000	3439	3839
-30°	253	334	453	648	953	1351	1816	2294	2734	3168	3578
-32.5°	234	301	404	570	814	1152	1553	1998	2436	2857	3284
-35°	215	276	363	487	675	965	1302	1679	2112	2519	2879
-37.5°	200	252	318	417	573	778	1063	1384	1752	2157	2462
-40°	184	225	285	366	468	622	845	1102	1410	1718	2047
-42.5°	169	206	255	311	395	507	647	869	1086	1328	1590
-45°	154	187	224	274	332	407	522	646	820	984	1194
-47.5°	140	169	203	237	281	339	407	504	592	725	850
-50°	125	152	179	208	241	281	333	385	454	521	605
-52.5°	111	134	158	182	208	238	272	308	350	391	444
-55°	97	118	138	159	180	203	227	254	276	309	336
-57.5°	85	102	119	137	156	174	193	211	231	249	269
-60°	73	87	101	117	133	149	163	179	194	206	222
-62.5°	62	73	85	98	112	125	138	151	165	175	184
-65°	52	61	71	81	93	103	114	124	135	144	152
-67.5°	41	49	57	65	74	82	90	99	108	115	122
-70°	33	38	44	51	57	64	70	76	82	88	94
-72.5°	25	29	33	38	42	47	52	56	61	66	70
-75°	19	21	24	27	30	33	36	39	43	46	49
-77.5°	13	15	17	18	20	22	24	26	28	30	31
-80°	9	10	11	12	14	15	16	17	18	19	20
-82.5°	6	7	8	9	9	10	11	12	13	14	14
-85°	4	5	6	6	7	7	9	9	10	10	11
-87.5°	2	3	3	3	4	4	5	5	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°	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	7	7	6	7	7	7	7	7
57.5°	19	16	14	19	19	15	16	20	19	15	16
55°	41	45	41	51	57	55	53	64	69	69	68
52.5°	84	106	113	116	130	142	151	162	171	177	187
50°	189	216	226	209	265	293	273	297	319	309	304
47.5°	364	400	437	481	529	559	558	562	601	623	638
45°	606	674	741	820	882	910	951	1022	1037	1064	1089
42.5°	886	963	1059	1166	1201	1264	1320	1354	1398	1418	1427
40°	1213	1273	1475	1572	1577	1615	1724	1694	1705	1755	1705
37.5°	1620	1799	1999	2093	2149	2253	2296	2308	2310	2314	2315
35°	2086	2315	2598	2676	2772	2871	2922	2929	2973	2984	2983
32.5°	2507	2764	3007	3153	3248	3313	3394	3390	3395	3403	3398
30°	2865	3151	3378	3516	3563	3649	3712	3720	3700	3677	3663
27.5°	3259	3525	3754	3847	3881	3985	4052	4006	4019	3920	3924
25°	3658	3927	4131	4259	4334	4457	4515	4491	4493	4413	4365
22.5°	4034	4290	4525	4722	4836	4951	5042	5042	5059	5000	4966
20°	4379	4642	4870	5091	5244	5338	5408	5411	5403	5352	5316
17.5°	4610	4927	5155	5354	5502	5572	5605	5620	5590	5554	5513
15°	4782	5111	5371	5533	5645	5718	5755	5756	5743	5711	5667
12.5°	4929	5256	5502	5662	5775	5845	5882	5894	5885	5857	5814
10°	5055	5370	5597	5760	5883	5966	6016	6038	6025	5994	5955
7.5°	5155	5445	5673	5852	5988	6078	6132	6159	6155	6122	6084
5°	5227	5498	5732	5918	6062	6165	6232	6264	6253	6225	6187
2.5°	5286	5547	5791	5973	6123	6228	6293	6320	6309	6275	6230
0°	5299	5583	5824	6023	6183	6295	6361	6382	6366	6321	6265
-2.5°	5274	5547	5786	5974	6131	6233	6295	6321	6306	6267	6221
-5°	5220	5486	5717	5906	6057	6161	6224	6255	6246	6215	6179
-7.5°	5168	5424	5645	5827	5970	6067	6122	6150	6152	6112	6073
-10°	5106	5351	5559	5730	5860	5953	6006	6027	6010	5981	5947
-12.5°	5034	5268	5464	5627	5747	5828	5871	5885	5879	5857	5810
-15°	4948	5175	5362	5512	5627	5702	5740	5757	5750	5718	5672
-17.5°	4845	5073	5248	5393	5511	5579	5615	5632	5611	5573	5532
-20°	4729	4963	5123	5263	5372	5442	5482	5487	5464	5420	5368



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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°	4563	4803	4993	5120	5213	5285	5320	5317	5298	5246	5190
-25°	4375	4637	4822	4946	5043	5112	5129	5130	5096	5044	4995
-27.5°	4158	4410	4605	4744	4849	4895	4914	4918	4871	4817	4780
-30°	3922	4143	4340	4507	4595	4644	4668	4654	4617	4577	4547
-32.5°	3585	3846	4048	4203	4296	4350	4396	4359	4323	4306	4286
-35°	3208	3476	3718	3838	3938	4006	4035	4021	3992	3998	3986
-37.5°	2774	3059	3270	3421	3521	3603	3632	3633	3633	3638	3629
-40°	2321	2596	2784	2942	3052	3131	3169	3188	3215	3223	3213
-42.5°	1853	2081	2269	2420	2544	2622	2662	2678	2731	2755	2758
-45°	1400	1586	1740	1885	1997	2075	2126	2189	2217	2244	2262
-47.5°	1005	1136	1267	1375	1471	1549	1584	1630	1694	1726	1750
-50°	698	782	879	946	1035	1098	1123	1176	1228	1258	1282
-52.5°	493	554	598	642	710	751	770	813	847	865	886
-55°	371	405	427	464	497	516	533	565	582	586	597
-57.5°	292	310	327	351	368	378	394	411	422	428	435
-60°	235	247	262	276	287	295	308	317	324	328	333
-62.5°	193	203	213	222	229	237	246	254	259	263	266
-65°	159	166	174	180	186	192	198	204	208	212	215
-67.5°	128	134	139	144	150	154	159	162	166	168	170
-70°	99	104	108	111	115	118	123	126	129	131	132
-72.5°	73	76	80	83	85	88	91	94	96	97	98
-75°	53	55	57	59	61	63	65	67	68	70	70
-77.5°	33	36	37	39	40	41	42	44	44	45	45
-80°	22	23	24	25	26	26	27	27	28	28	28
-82.5°	15	15	16	17	18	19	19	19	20	20	20
-85°	11	12	12	13	13	14	14	15	15	15	15
-87.5°	7	8	9	9	10	10	11	11	12	12	12
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731771
 CATALOG NUMBER: NHRS50UBZ740-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°	8	8	8	8	8	8	8	7	7	7	7
57.5°	15	15	14	14	14	15	15	16	15	19	20
55°	63	53	48	46	48	53	63	68	69	69	64
52.5°	196	202	210	209	210	202	196	187	177	171	162
50°	307	305	310	316	310	305	307	304	309	319	297
47.5°	633	597	579	576	579	597	633	638	623	601	562
45°	1119	1140	1177	1190	1177	1140	1119	1089	1064	1037	1022
42.5°	1444	1448	1459	1468	1459	1448	1444	1427	1418	1398	1354
40°	1701	1690	1682	1684	1682	1690	1701	1705	1755	1705	1694
37.5°	2341	2317	2282	2285	2282	2317	2341	2315	2314	2310	2308
35°	2996	3012	3040	3029	3040	3012	2996	2983	2984	2973	2929
32.5°	3390	3393	3393	3389	3393	3393	3390	3398	3403	3395	3390
30°	3633	3617	3591	3602	3591	3617	3633	3663	3677	3700	3720
27.5°	3870	3836	3798	3802	3798	3836	3870	3924	3920	4019	4006
25°	4349	4318	4255	4267	4255	4318	4349	4365	4413	4493	4491
22.5°	4918	4913	4916	4917	4916	4913	4918	4966	5000	5059	5042
20°	5269	5233	5219	5234	5219	5233	5269	5316	5352	5403	5411
17.5°	5460	5435	5429	5441	5429	5435	5460	5513	5554	5590	5620
15°	5623	5600	5595	5606	5595	5600	5623	5667	5711	5743	5756
12.5°	5772	5740	5734	5764	5734	5740	5772	5814	5857	5885	5894
10°	5914	5868	5861	5890	5861	5868	5914	5955	5994	6025	6038
7.5°	6039	5987	5972	6015	5972	5987	6039	6084	6122	6155	6159
5°	6131	6079	6034	6094	6034	6079	6131	6187	6225	6253	6264
2.5°	6165	6126	6094	6115	6094	6126	6165	6230	6275	6309	6320
0°	6171	6115	6104	6087	6104	6115	6171	6265	6321	6366	6382
-2.5°	6163	6120	6095	6081	6095	6120	6163	6221	6267	6306	6321
-5°	6116	6077	6031	6050	6031	6077	6116	6179	6215	6246	6255
-7.5°	6035	5973	5956	5975	5956	5973	6035	6073	6112	6152	6150
-10°	5896	5851	5841	5850	5841	5851	5896	5947	5981	6010	6027
-12.5°	5764	5730	5719	5709	5719	5730	5764	5810	5857	5879	5885
-15°	5629	5599	5585	5580	5585	5599	5629	5672	5718	5750	5757
-17.5°	5482	5450	5428	5419	5428	5450	5482	5532	5573	5611	5632
-20°	5322	5278	5253	5237	5253	5278	5322	5368	5420	5464	5487



REPORT NUMBER: P731771
 CATALOG NUMBER: NHRS50UBZ740-VS_50

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5144	5102	5073	5059	5073	5102	5144	5190	5246	5298	5317
-25°	4951	4916	4880	4874	4880	4916	4951	4995	5044	5096	5130
-27.5°	4735	4712	4678	4660	4678	4712	4735	4780	4817	4871	4918
-30°	4503	4489	4467	4444	4467	4489	4503	4547	4577	4617	4654
-32.5°	4259	4248	4232	4217	4232	4248	4259	4286	4306	4323	4359
-35°	3976	3969	3957	3933	3957	3969	3976	3986	3998	3992	4021
-37.5°	3636	3634	3630	3613	3630	3634	3636	3629	3638	3633	3633
-40°	3232	3234	3238	3223	3238	3234	3232	3213	3223	3215	3188
-42.5°	2782	2785	2789	2770	2789	2785	2782	2758	2755	2731	2678
-45°	2289	2291	2300	2293	2300	2291	2289	2262	2244	2217	2189
-47.5°	1776	1781	1790	1775	1790	1781	1776	1750	1726	1694	1630
-50°	1300	1300	1307	1296	1307	1300	1300	1282	1258	1228	1176
-52.5°	896	891	897	894	897	891	896	886	865	847	813
-55°	603	602	605	602	605	602	603	597	586	582	565
-57.5°	438	437	439	438	439	437	438	435	428	422	411
-60°	335	336	338	337	338	336	335	333	328	324	317
-62.5°	268	269	270	269	270	269	268	266	263	259	254
-65°	217	217	218	218	218	217	217	215	212	208	204
-67.5°	172	175	174	173	174	175	172	170	168	166	162
-70°	133	134	134	133	134	134	133	132	131	129	126
-72.5°	99	99	99	98	99	99	99	98	97	96	94
-75°	70	70	69	68	69	70	70	70	70	68	67
-77.5°	45	45	45	44	45	45	45	45	45	44	44
-80°	29	29	28	28	28	29	29	28	28	28	27
-82.5°	21	21	21	21	21	21	21	20	20	20	19
-85°	16	16	16	15	16	16	16	15	15	15	15
-87.5°	13	13	13	13	13	13	13	12	12	12	11
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731771
 CATALOG NUMBER: NHRS50UBZ740-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	7	7	6	6	7	7	5	6	7
57.5°	16	15	19	19	14	16	19	16	14	15	14
55°	53	55	57	51	41	45	41	37	35	32	31
52.5°	151	142	130	116	113	106	84	76	70	67	57
50°	273	293	265	209	226	216	189	150	134	122	100
47.5°	558	559	529	481	437	400	364	291	249	202	172
45°	951	910	882	820	741	674	606	519	408	336	264
42.5°	1320	1264	1201	1166	1059	963	886	790	651	506	405
40°	1724	1615	1577	1572	1475	1273	1213	1123	946	748	575
37.5°	2296	2253	2149	2093	1999	1799	1620	1486	1311	1047	821
35°	2922	2871	2772	2676	2598	2315	2086	1903	1680	1365	1086
32.5°	3394	3313	3248	3153	3007	2764	2507	2306	2030	1690	1367
30°	3712	3649	3563	3516	3378	3151	2865	2640	2357	2012	1638
27.5°	4052	3985	3881	3847	3754	3525	3259	2986	2691	2323	1924
25°	4515	4457	4334	4259	4131	3927	3658	3360	3028	2635	2188
22.5°	5042	4951	4836	4722	4525	4290	4034	3733	3363	2915	2448
20°	5408	5338	5244	5091	4870	4642	4379	4038	3618	3170	2694
17.5°	5605	5572	5502	5354	5155	4927	4610	4242	3842	3403	2945
15°	5755	5718	5645	5533	5371	5111	4782	4413	4029	3601	3106
12.5°	5882	5845	5775	5662	5502	5256	4929	4553	4166	3719	3211
10°	6016	5966	5883	5760	5597	5370	5055	4676	4262	3803	3288
7.5°	6132	6078	5988	5852	5673	5445	5155	4781	4349	3870	3340
5°	6232	6165	6062	5918	5732	5498	5227	4866	4421	3918	3367
2.5°	6293	6228	6123	5973	5791	5547	5286	4939	4501	3979	3427
0°	6361	6295	6183	6023	5824	5583	5299	4959	4534	3990	3442
-2.5°	6295	6233	6131	5974	5786	5547	5274	4944	4524	4008	3447
-5°	6224	6161	6057	5906	5717	5486	5220	4895	4477	3976	3407
-7.5°	6122	6067	5970	5827	5645	5424	5168	4855	4453	3959	3408
-10°	6006	5953	5860	5730	5559	5351	5106	4804	4409	3920	3386
-12.5°	5871	5828	5747	5627	5464	5268	5034	4742	4348	3862	3341
-15°	5740	5702	5627	5512	5362	5175	4948	4662	4265	3783	3273
-17.5°	5615	5579	5511	5393	5248	5073	4845	4546	4153	3680	3197
-20°	5482	5442	5372	5263	5123	4963	4729	4426	4022	3552	3055



REPORT NUMBER: P731771
 CATALOG NUMBER: NHRS50UBZ740-VS_50

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5320	5285	5213	5120	4993	4803	4563	4265	3880	3403	2911
-25°	5129	5112	5043	4946	4822	4637	4375	4057	3671	3230	2747
-27.5°	4914	4895	4849	4744	4605	4410	4158	3839	3439	3000	2549
-30°	4668	4644	4595	4507	4340	4143	3922	3578	3168	2734	2294
-32.5°	4396	4350	4296	4203	4048	3846	3585	3284	2857	2436	1998
-35°	4035	4006	3938	3838	3718	3476	3208	2879	2519	2112	1679
-37.5°	3632	3603	3521	3421	3270	3059	2774	2462	2157	1752	1384
-40°	3169	3131	3052	2942	2784	2596	2321	2047	1718	1410	1102
-42.5°	2662	2622	2544	2420	2269	2081	1853	1590	1328	1086	869
-45°	2126	2075	1997	1885	1740	1586	1400	1194	984	820	646
-47.5°	1584	1549	1471	1375	1267	1136	1005	850	725	592	504
-50°	1123	1098	1035	946	879	782	698	605	521	454	385
-52.5°	770	751	710	642	598	554	493	444	391	350	308
-55°	533	516	497	464	427	405	371	336	309	276	254
-57.5°	394	378	368	351	327	310	292	269	249	231	211
-60°	308	295	287	276	262	247	235	222	206	194	179
-62.5°	246	237	229	222	213	203	193	184	175	165	151
-65°	198	192	186	180	174	166	159	152	144	135	124
-67.5°	159	154	150	144	139	134	128	122	115	108	99
-70°	123	118	115	111	108	104	99	94	88	82	76
-72.5°	91	88	85	83	80	76	73	70	66	61	56
-75°	65	63	61	59	57	55	53	49	46	43	39
-77.5°	42	41	40	39	37	36	33	31	30	28	26
-80°	27	26	26	25	24	23	22	20	19	18	17
-82.5°	19	19	18	17	16	15	15	14	14	13	12
-85°	14	14	13	13	12	12	11	11	10	10	9
-87.5°	11	10	10	9	9	8	7	7	6	6	5
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731771
 CATALOG NUMBER: NHRS50UBZ740-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°	3	2	2	2	2	2	1	2	2	2	1
60°	5	5	5	5	5	3	3	4	4	3	2
57.5°	13	9	11	11	9	6	6	6	5	4	3
55°	24	21	21	20	16	11	11	10	7	6	4
52.5°	46	40	37	32	27	19	18	15	12	8	6
50°	81	67	58	50	40	33	27	22	17	11	9
47.5°	132	108	87	71	59	48	39	31	22	16	12
45°	215	161	126	100	80	67	54	40	31	22	15
42.5°	311	241	179	131	108	88	71	54	40	28	20
40°	453	339	245	184	139	108	88	68	49	35	25
37.5°	616	465	340	236	175	137	108	83	59	44	30
35°	839	617	438	305	222	167	128	99	72	52	36
32.5°	1082	787	560	386	269	198	152	115	85	60	41
30°	1322	990	693	464	322	237	177	131	97	68	47
27.5°	1539	1181	834	571	390	276	198	146	108	78	54
25°	1762	1373	1001	688	455	309	219	160	120	87	61
22.5°	1992	1563	1156	801	508	340	242	178	132	96	67
20°	2206	1748	1294	891	576	384	267	194	144	105	73
17.5°	2404	1908	1415	987	647	424	290	209	154	113	79
15°	2554	2029	1523	1071	709	460	311	222	164	121	84
12.5°	2668	2131	1616	1141	760	490	330	234	173	127	89
10°	2756	2214	1692	1197	802	517	346	244	179	132	92
7.5°	2818	2277	1751	1241	834	538	358	252	184	135	96
5°	2859	2327	1799	1285	861	554	368	257	189	140	99
2.5°	2903	2377	1841	1326	883	569	377	263	191	142	101
0°	2904	2388	1848	1342	889	573	381	265	193	143	102
-2.5°	2919	2393	1858	1347	896	576	383	266	194	144	104
-5°	2890	2360	1833	1325	885	569	379	265	196	145	105
-7.5°	2881	2342	1810	1300	869	560	375	264	194	144	104
-10°	2858	2320	1788	1279	851	549	368	261	192	143	103
-12.5°	2813	2278	1745	1241	825	536	361	256	190	141	102
-15°	2748	2215	1682	1186	788	517	351	251	186	139	100
-17.5°	2661	2131	1601	1113	742	491	337	244	182	136	99
-20°	2543	2020	1501	1022	684	458	321	236	177	132	96



REPORT NUMBER: P731771
 CATALOG NUMBER: NHRS50UBZ740-VS_50

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2402	1881	1380	944	629	419	301	225	171	128	93
-25°	2239	1716	1241	855	580	394	284	213	163	124	90
-27.5°	2043	1533	1086	752	519	367	269	204	156	118	87
-30°	1816	1351	953	648	453	334	253	194	149	113	82
-32.5°	1553	1152	814	570	404	301	234	183	142	108	79
-35°	1302	965	675	487	363	276	215	170	134	102	75
-37.5°	1063	778	573	417	318	252	200	159	125	96	71
-40°	845	622	468	366	285	225	184	148	117	89	66
-42.5°	647	507	395	311	255	206	169	136	108	82	61
-45°	522	407	332	274	224	187	154	124	99	76	56
-47.5°	407	339	281	237	203	169	140	113	89	70	52
-50°	333	281	241	208	179	152	125	101	81	63	47
-52.5°	272	238	208	182	158	134	111	91	72	56	42
-55°	227	203	180	159	138	118	97	80	63	50	37
-57.5°	193	174	156	137	119	102	85	70	56	44	33
-60°	163	149	133	117	101	87	73	60	48	37	29
-62.5°	138	125	112	98	85	73	62	51	40	32	25
-65°	114	103	93	81	71	61	52	42	34	27	21
-67.5°	90	82	74	65	57	49	41	35	28	22	18
-70°	70	64	57	51	44	38	33	28	22	18	14
-72.5°	52	47	42	38	33	29	25	21	18	14	11
-75°	36	33	30	27	24	21	19	16	13	10	9
-77.5°	24	22	20	18	17	15	13	11	9	8	7
-80°	16	15	14	12	11	10	9	8	7	6	5
-82.5°	11	10	9	9	8	7	6	6	5	4	3
-85°	9	7	7	6	6	5	4	4	3	3	2
-87.5°	5	4	4	3	3	3	2	2	2	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731771
 CATALOG NUMBER: NHRS50UBZ740-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	3	2	1	1	1	0
55°	4	3	2	2	1	1	0
52.5°	5	4	3	2	1	1	0
50°	7	5	3	2	1	1	0
47.5°	9	6	4	2	1	1	0
45°	12	8	5	3	2	1	0
42.5°	14	10	5	3	2	1	0
40°	17	11	6	4	2	1	0
37.5°	20	13	7	4	2	1	0
35°	23	15	9	5	2	1	0
32.5°	27	18	10	5	3	1	0
30°	31	20	11	6	3	1	0
27.5°	36	22	12	6	3	1	0
25°	40	25	14	7	3	1	0
22.5°	44	27	15	7	3	1	0
20°	48	30	16	8	4	1	0
17.5°	52	32	18	8	4	1	0
15°	55	34	19	9	4	1	0
12.5°	58	36	20	9	4	1	0
10°	61	38	21	10	4	1	0
7.5°	63	39	22	10	4	1	0
5°	66	41	23	11	5	1	0
2.5°	67	42	23	11	5	1	0
0°	69	44	24	11	5	1	0
-2.5°	70	45	24	12	5	1	0
-5°	71	46	25	12	5	1	0
-7.5°	71	46	26	12	5	1	0
-10°	71	46	26	12	5	1	0
-12.5°	71	46	26	12	5	1	0
-15°	70	46	26	12	5	1	0
-17.5°	69	45	26	12	5	1	0
-20°	67	45	26	12	5	1	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	66	44	25	12	5	1	0
-25°	64	42	24	12	5	1	0
-27.5°	62	40	24	12	5	1	0
-30°	59	39	23	12	5	1	0
-32.5°	56	37	22	11	5	1	0
-35°	53	34	21	11	5	1	0
-37.5°	50	32	20	10	4	1	0
-40°	47	30	18	10	4	1	0
-42.5°	43	28	17	9	4	1	0
-45°	39	27	16	8	4	1	0
-47.5°	36	24	15	7	4	1	0
-50°	33	22	13	7	4	1	0
-52.5°	30	20	12	6	3	1	0
-55°	27	18	11	6	3	1	0
-57.5°	24	16	10	5	3	1	0
-60°	21	14	8	5	3	1	0
-62.5°	18	12	7	5	2	1	0
-65°	15	10	6	4	2	1	0
-67.5°	13	9	6	3	2	1	0
-70°	10	7	5	3	2	1	0
-72.5°	9	6	4	3	2	1	0
-75°	7	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)