

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: P731773

Luminaire Tested: **NHRS50UBZ740-VS**

Issue Date: 09/15/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P731773  
Test Lab: INNOVATION CENTER  
Issue Date: 09/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NHRS50UBZ740-VS  
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 4000K WITH VISOR  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

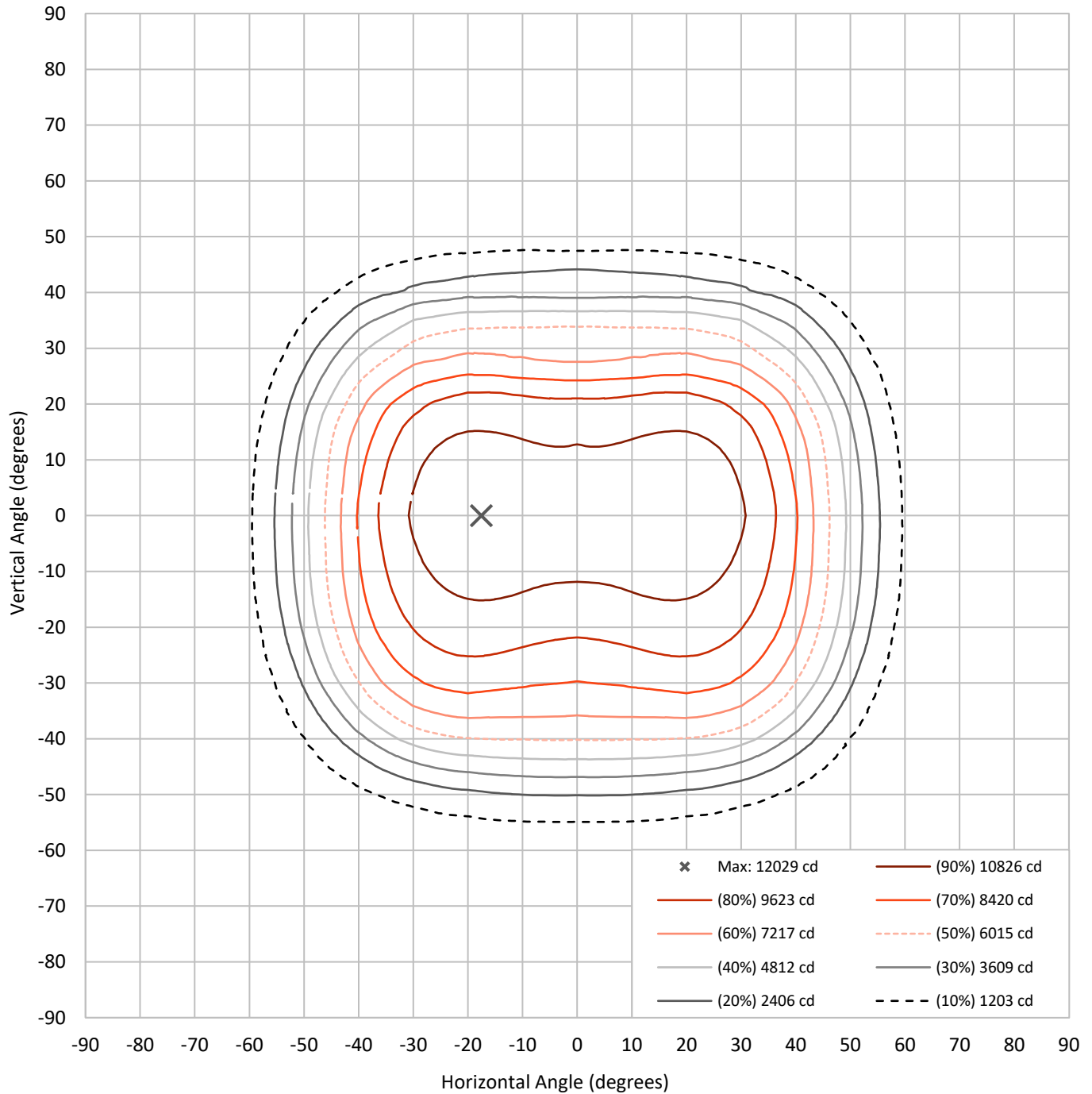
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	20284.3 lumens	Max Intensity:	12029 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	135.5 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:	15949.5 lumens	Field Lumens:	19621.3 lumens
Beam Efficiency:	78.6%	Field Efficiency:	96.7%
Input Watts (W):	149.7		
Input Voltage (V):	120		
Input Current (A <sub>in</sub> ):	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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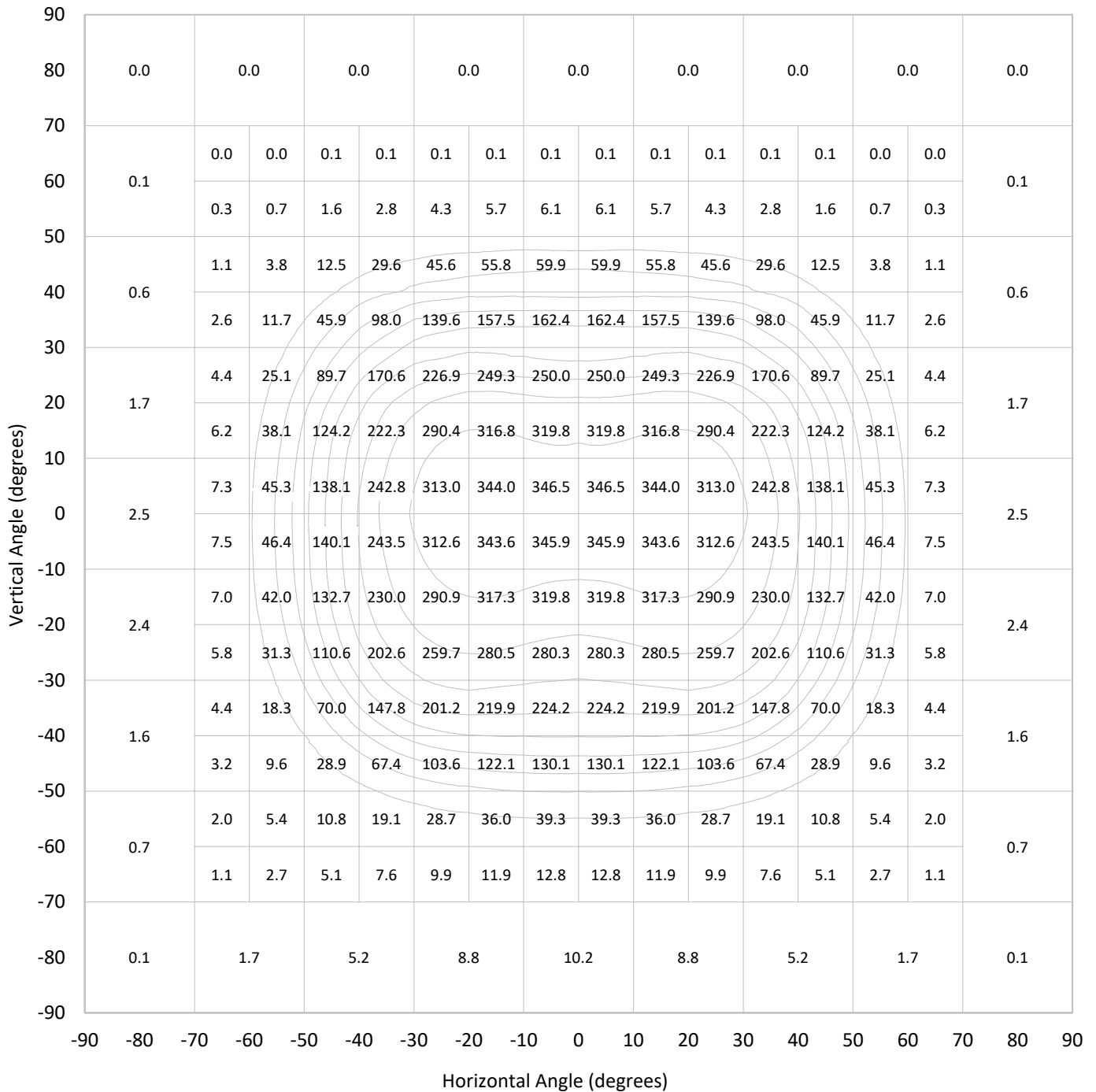
### Iso-Candela Plot





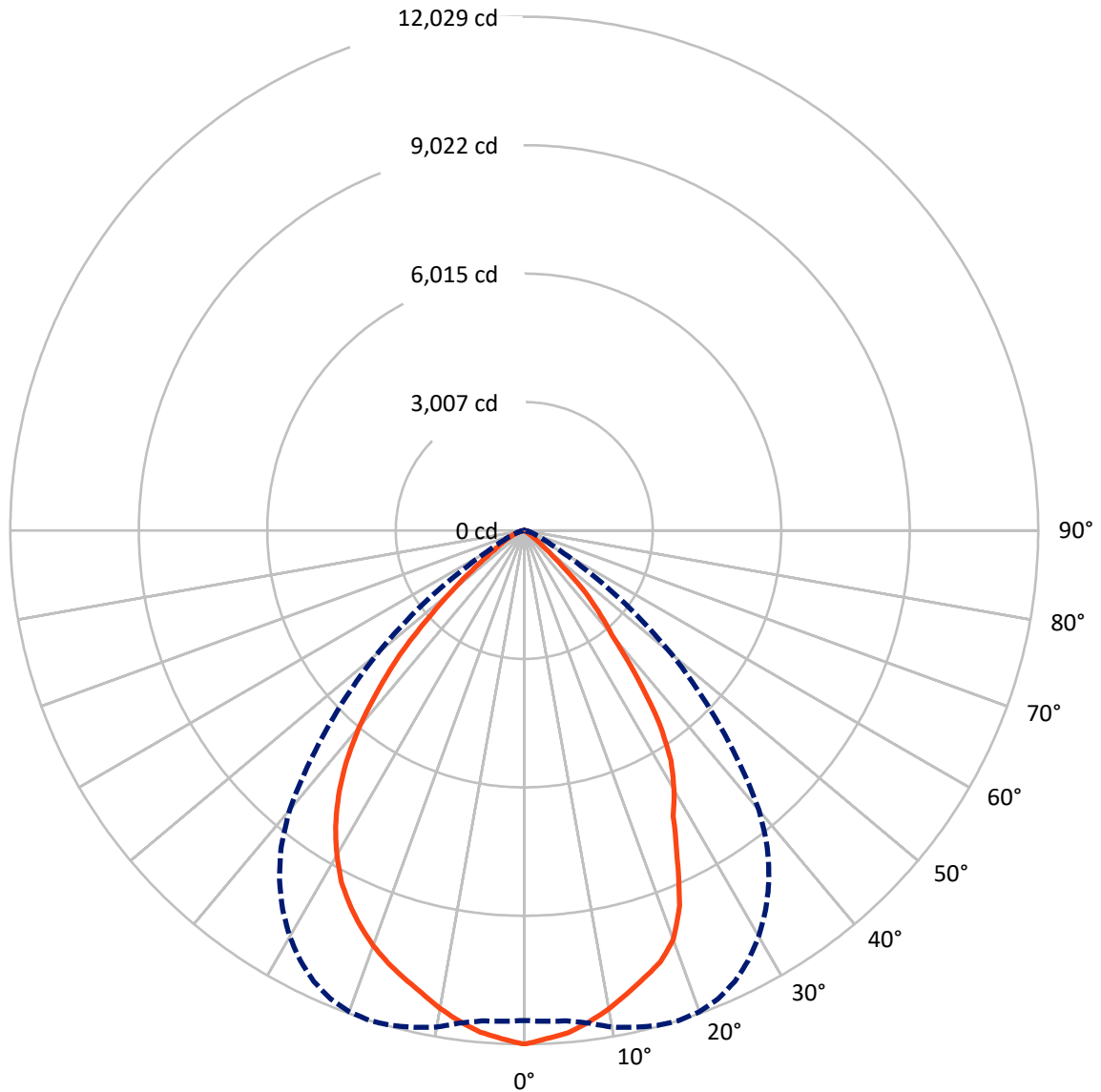
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### Lumen Table



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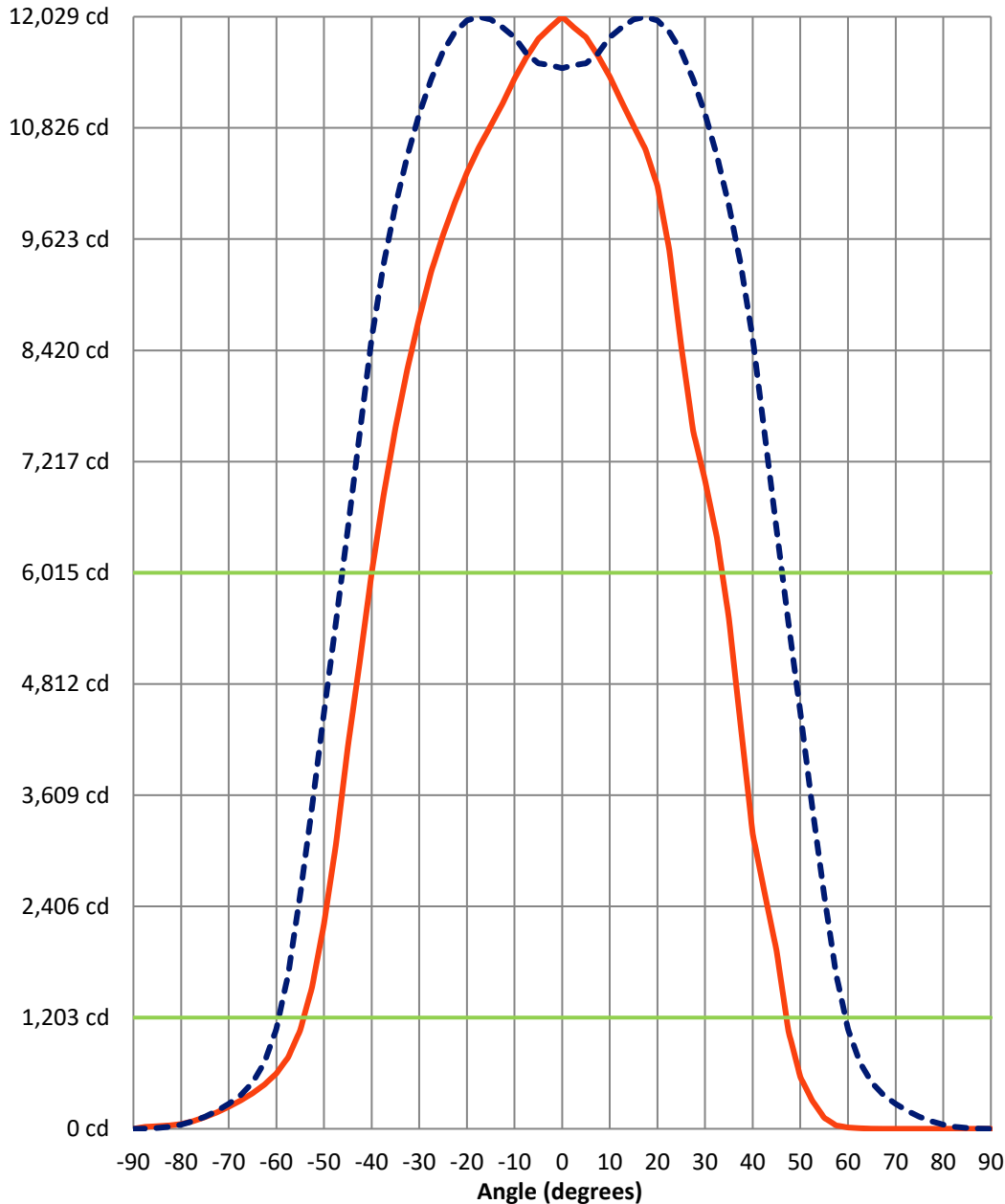
### Luminous Intensity Polar Plot



— 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: 15949.5  
 Efficiency: 78.6%

**Field:**  
 H Angle: 119°  
 V Angle: 101.3°  
 Lumens: 19621.3  
 Efficiency: 96.7%

**Spill:**  
 Lumens: 663  
 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	2	2	2	1	2	2	2
62.5°	0	1	0	1	2	3	2	2	3	4	4
60°	0	1	0	2	3	4	3	4	5	7	7
57.5°	0	1	1	2	3	5	5	6	8	10	12
55°	0	1	1	3	4	6	8	8	11	14	19
52.5°	0	1	1	3	5	7	10	12	15	23	28
50°	0	1	2	3	6	9	13	17	20	32	42
47.5°	0	1	2	4	7	12	17	22	30	42	58
45°	0	1	3	5	9	15	22	28	41	58	76
42.5°	0	1	3	6	10	18	27	37	53	75	101
40°	0	1	3	7	11	21	32	47	66	92	128
37.5°	0	1	4	8	14	24	38	57	82	112	156
35°	0	1	4	9	16	28	44	67	97	136	187
32.5°	0	1	5	10	18	33	51	77	113	160	217
30°	0	1	5	11	21	37	59	88	129	182	247
27.5°	0	1	5	12	23	42	67	101	146	204	275
25°	0	1	6	13	26	47	75	114	164	227	302
22.5°	0	1	6	14	28	51	83	126	181	249	335
20°	0	2	7	15	30	56	91	138	198	271	365
17.5°	0	2	7	15	33	60	98	149	213	291	393
15°	0	2	7	16	35	64	104	159	228	309	419
12.5°	0	2	8	17	37	67	109	167	239	326	441
10°	0	2	8	18	39	71	114	174	248	338	460
7.5°	0	2	8	19	41	74	119	180	255	347	474
5°	0	2	9	20	43	78	124	187	264	357	485
2.5°	0	2	9	20	44	80	127	190	267	360	495
0°	0	2	9	21	45	82	130	193	270	363	499
-2.5°	0	2	9	22	46	84	132	195	272	366	502
-5°	0	2	9	22	47	86	134	197	274	370	500
-7.5°	0	2	10	23	48	86	133	195	271	365	497
-10°	0	2	10	23	48	86	133	194	269	362	491
-12.5°	0	2	10	23	48	86	133	192	266	358	483
-15°	0	2	10	23	48	86	131	189	261	351	473
-17.5°	0	2	10	23	48	85	130	186	256	343	460
-20°	0	2	9	23	48	84	127	181	249	333	444



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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	9	23	47	82	124	176	242	322	424
-25°	0	2	9	23	46	79	120	170	233	308	402
-27.5°	0	2	9	22	45	76	116	163	223	294	384
-30°	0	2	9	22	43	73	111	155	213	281	365
-32.5°	0	2	9	21	41	69	105	148	203	267	344
-35°	0	2	9	20	39	64	99	141	192	252	321
-37.5°	0	2	8	19	37	60	94	133	180	236	300
-40°	0	2	8	18	34	57	88	124	167	221	279
-42.5°	0	2	8	17	32	53	81	115	155	204	257
-45°	0	2	7	15	30	50	74	106	144	186	234
-47.5°	0	2	7	14	28	46	67	97	131	168	213
-50°	0	2	7	13	25	41	62	88	118	152	191
-52.5°	0	2	6	12	23	37	56	79	106	136	171
-55°	0	2	6	11	20	33	51	70	94	119	150
-57.5°	0	2	5	10	18	30	45	62	82	105	131
-60°	0	2	5	9	15	26	39	55	70	91	113
-62.5°	0	2	4	9	14	23	34	47	61	76	96
-65°	0	1	4	8	12	19	29	39	51	64	79
-67.5°	0	1	4	6	11	16	24	33	41	53	65
-70°	0	1	3	5	9	14	19	27	34	41	52
-72.5°	0	1	3	5	7	11	16	20	27	33	39
-75°	0	1	3	4	6	9	13	16	19	25	30
-77.5°	0	1	2	3	5	7	10	13	15	17	20
-80°	0	1	2	3	4	5	6	9	11	13	15
-82.5°	0	0	1	2	3	4	5	6	7	9	11
-85°	0	0	1	1	2	2	3	4	5	6	7
-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	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	2	2	1	1	2	1	1	2	2
62.5°	2	3	4	4	4	3	5	5	5	5	5
60°	6	6	9	10	9	9	10	13	12	9	13
57.5°	11	12	17	20	21	17	24	26	29	27	31
55°	20	21	30	37	40	40	46	58	60	66	69
52.5°	34	36	51	61	69	75	87	108	126	132	143
50°	50	63	76	94	109	126	153	189	230	252	283
47.5°	74	91	111	134	163	204	249	325	380	470	549
45°	102	126	150	189	237	304	405	498	633	768	978
42.5°	133	165	204	247	338	454	587	764	954	1226	1488
40°	166	204	262	346	461	638	854	1084	1410	1783	2116
37.5°	203	259	329	444	641	877	1161	1547	1973	2470	2801
35°	241	314	418	575	825	1162	1582	2047	2573	3167	3587
32.5°	286	373	506	728	1055	1484	2039	2576	3186	3826	4346
30°	333	446	607	875	1306	1866	2491	3087	3792	4442	4975
27.5°	374	521	735	1077	1572	2226	2900	3627	4379	5071	5627
25°	413	582	858	1296	1886	2587	3321	4124	4967	5706	6332
22.5°	456	640	958	1510	2178	2946	3755	4614	5494	6338	7035
20°	504	723	1085	1680	2439	3295	4157	5077	5975	6819	7610
17.5°	547	799	1220	1861	2666	3596	4530	5550	6413	7241	7995
15°	587	866	1336	2018	2871	3824	4813	5854	6786	7593	8317
12.5°	621	924	1433	2150	3045	4016	5028	6051	7010	7851	8581
10°	652	974	1511	2256	3189	4172	5194	6197	7167	8033	8813
7.5°	675	1014	1572	2338	3301	4292	5311	6295	7294	8197	9011
5°	694	1045	1623	2422	3391	4386	5389	6346	7385	8333	9171
2.5°	711	1072	1665	2500	3470	4480	5472	6459	7499	8483	9308
0°	718	1080	1675	2529	3482	4501	5474	6487	7521	8545	9346
-2.5°	722	1085	1688	2539	3501	4511	5501	6497	7554	8526	9319
-5°	715	1073	1667	2498	3455	4447	5447	6422	7494	8438	9226
-7.5°	707	1055	1637	2450	3412	4414	5430	6423	7462	8393	9151
-10°	694	1035	1604	2410	3369	4373	5386	6381	7388	8310	9054
-12.5°	680	1010	1555	2339	3289	4293	5302	6296	7278	8195	8937
-15°	661	974	1486	2235	3171	4174	5179	6168	7130	8038	8787
-17.5°	636	925	1398	2098	3017	4017	5015	6025	6936	7827	8568
-20°	605	863	1290	1927	2828	3808	4793	5757	6695	7580	8342



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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°	568	789	1185	1780	2601	3545	4527	5487	6414	7313	8039
-25°	535	743	1094	1611	2339	3235	4219	5177	6088	6919	7647
-27.5°	507	691	979	1417	2047	2890	3850	4804	5655	6482	7235
-30°	476	630	854	1221	1796	2546	3422	4324	5153	5970	6744
-32.5°	440	568	762	1074	1535	2171	2926	3766	4591	5385	6190
-35°	405	521	684	918	1273	1818	2454	3164	3980	4747	5426
-37.5°	377	474	600	786	1079	1467	2003	2609	3302	4065	4640
-40°	347	424	537	690	882	1172	1593	2077	2658	3237	3858
-42.5°	319	389	480	587	744	955	1219	1637	2046	2502	2997
-45°	290	353	423	516	625	767	983	1218	1545	1855	2250
-47.5°	263	318	382	446	530	638	767	950	1115	1366	1602
-50°	235	286	337	392	454	529	628	725	855	982	1141
-52.5°	210	253	298	343	392	449	512	581	659	736	837
-55°	183	222	260	299	339	383	427	478	520	582	634
-57.5°	160	192	225	259	293	327	364	397	436	470	506
-60°	138	163	191	221	250	280	308	338	366	389	418
-62.5°	116	138	161	185	211	235	260	284	310	329	347
-65°	97	114	133	153	175	194	214	233	254	271	286
-67.5°	78	92	107	122	140	155	170	187	203	217	229
-70°	62	71	83	96	108	120	132	144	155	166	177
-72.5°	47	55	62	71	80	89	98	106	115	124	132
-75°	35	39	45	51	57	62	67	74	81	87	93
-77.5°	25	28	32	34	37	42	46	49	53	56	58
-80°	16	18	21	23	26	29	30	32	33	36	38
-82.5°	12	14	15	16	17	19	21	22	24	26	27
-85°	8	9	11	12	13	14	16	17	18	19	20
-87.5°	4	5	6	6	7	8	9	10	11	12	13
-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°	5	5	5	5	5	5	5	6	6	7	7
60°	14	12	12	13	13	12	13	14	14	14	14
57.5°	36	31	27	35	36	29	31	37	35	29	30
55°	78	84	78	96	107	104	100	120	130	130	129
52.5°	159	200	212	219	245	267	284	305	323	334	352
50°	357	407	425	393	500	552	515	560	601	583	573
47.5°	686	753	824	907	996	1054	1052	1059	1132	1174	1202
45°	1142	1270	1396	1545	1662	1715	1793	1927	1955	2005	2052
42.5°	1670	1814	1995	2198	2263	2383	2487	2552	2634	2673	2689
40°	2287	2400	2780	2963	2972	3043	3250	3192	3214	3307	3213
37.5°	3054	3390	3768	3945	4050	4246	4328	4350	4353	4362	4364
35°	3932	4364	4896	5044	5224	5411	5508	5520	5604	5624	5623
32.5°	4725	5210	5667	5943	6121	6244	6397	6389	6399	6414	6405
30°	5400	5938	6367	6626	6716	6877	6996	7011	6974	6931	6904
27.5°	6143	6644	7075	7251	7315	7510	7637	7550	7574	7389	7395
25°	6894	7401	7786	8028	8169	8400	8510	8465	8469	8317	8226
22.5°	7603	8086	8528	8899	9115	9332	9502	9502	9534	9424	9360
20°	8254	8749	9179	9595	9883	10061	10193	10198	10184	10088	10020
17.5°	8689	9287	9716	10091	10369	10501	10563	10592	10536	10468	10391
15°	9013	9632	10122	10429	10639	10777	10846	10848	10824	10764	10681
12.5°	9290	9907	10369	10672	10884	11016	11086	11108	11092	11039	10958
10°	9528	10121	10549	10857	11087	11245	11339	11380	11355	11297	11223
7.5°	9715	10263	10693	11029	11285	11455	11558	11608	11601	11538	11466
5°	9852	10362	10804	11154	11426	11620	11746	11806	11786	11732	11661
2.5°	9963	10455	10914	11258	11541	11738	11860	11911	11891	11826	11742
0°	9987	10522	10977	11351	11654	11864	11988	12029	11999	11913	11807
-2.5°	9941	10454	10905	11260	11555	11747	11865	11913	11886	11811	11725
-5°	9839	10339	10775	11132	11416	11611	11730	11789	11773	11714	11645
-7.5°	9741	10223	10639	10983	11252	11434	11538	11592	11595	11519	11446
-10°	9623	10085	10478	10799	11045	11220	11319	11359	11328	11272	11208
-12.5°	9487	9928	10299	10605	10832	10984	11065	11091	11081	11038	10951
-15°	9326	9754	10106	10388	10605	10746	10818	10850	10838	10777	10691
-17.5°	9131	9562	9891	10164	10387	10515	10582	10614	10575	10503	10427
-20°	8913	9353	9656	9920	10124	10256	10333	10341	10298	10215	10118



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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°	8600	9053	9411	9649	9826	9960	10026	10022	9985	9888	9781
-25°	8245	8739	9089	9322	9505	9635	9667	9668	9605	9507	9414
-27.5°	7837	8312	8679	8941	9139	9225	9261	9270	9181	9079	9009
-30°	7391	7809	8179	8495	8660	8752	8798	8772	8702	8627	8569
-32.5°	6757	7249	7629	7922	8097	8198	8286	8216	8147	8115	8078
-35°	6046	6551	7008	7233	7422	7550	7604	7578	7524	7536	7512
-37.5°	5229	5765	6163	6448	6636	6790	6846	6847	6848	6857	6840
-40°	4375	4892	5247	5544	5753	5902	5972	6008	6059	6075	6056
-42.5°	3492	3922	4277	4561	4794	4942	5018	5048	5148	5193	5198
-45°	2638	2989	3280	3553	3763	3910	4007	4126	4178	4229	4264
-47.5°	1895	2141	2388	2592	2772	2919	2986	3072	3193	3253	3298
-50°	1315	1474	1657	1783	1951	2070	2116	2216	2314	2370	2417
-52.5°	929	1044	1127	1210	1339	1416	1451	1533	1596	1631	1670
-55°	700	763	804	875	936	972	1004	1065	1097	1104	1126
-57.5°	550	584	617	662	693	712	742	775	796	806	819
-60°	443	466	493	520	541	556	580	598	610	618	627
-62.5°	364	382	401	418	432	446	464	478	488	495	501
-65°	300	313	327	339	350	362	374	384	392	399	405
-67.5°	242	252	262	272	282	290	299	306	312	317	321
-70°	187	196	203	209	216	223	231	238	243	246	249
-72.5°	138	144	150	156	161	166	172	177	181	183	185
-75°	99	104	108	112	115	119	123	126	129	131	131
-77.5°	62	67	70	73	76	78	80	82	83	84	85
-80°	41	43	45	47	48	49	50	51	52	52	53
-82.5°	28	29	31	32	34	35	36	36	37	38	38
-85°	21	22	23	24	25	26	27	28	29	29	29
-87.5°	14	15	16	17	18	19	20	21	23	23	23
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731773  
 CATALOG NUMBER: NHRS50UBZ740-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°	7	7	7	7	7	7	7	7	7	6	6
60°	15	15	15	15	15	15	15	14	14	14	14
57.5°	29	28	27	26	27	28	29	30	29	35	37
55°	118	100	91	86	91	100	118	129	130	130	120
52.5°	369	381	396	394	396	381	369	352	334	323	305
50°	579	575	584	595	584	575	579	573	583	601	560
47.5°	1193	1126	1092	1086	1092	1126	1193	1202	1174	1132	1059
45°	2109	2149	2218	2243	2218	2149	2109	2052	2005	1955	1927
42.5°	2721	2729	2750	2766	2750	2729	2721	2689	2673	2634	2552
40°	3206	3186	3171	3173	3171	3186	3206	3213	3307	3214	3192
37.5°	4412	4367	4300	4306	4300	4367	4412	4364	4362	4353	4350
35°	5646	5677	5729	5708	5729	5677	5646	5623	5624	5604	5520
32.5°	6390	6394	6395	6387	6395	6394	6390	6405	6414	6399	6389
30°	6848	6817	6768	6789	6768	6817	6848	6904	6931	6974	7011
27.5°	7293	7230	7159	7166	7159	7230	7293	7395	7389	7574	7550
25°	8197	8138	8020	8042	8020	8138	8197	8226	8317	8469	8465
22.5°	9269	9259	9266	9267	9266	9259	9269	9360	9424	9534	9502
20°	9930	9863	9836	9864	9836	9863	9930	10020	10088	10184	10198
17.5°	10290	10244	10233	10255	10233	10244	10290	10391	10468	10536	10592
15°	10597	10554	10545	10565	10545	10554	10597	10681	10764	10824	10848
12.5°	10878	10818	10807	10863	10807	10818	10878	10958	11039	11092	11108
10°	11147	11060	11047	11101	11047	11060	11147	11223	11297	11355	11380
7.5°	11382	11283	11255	11337	11255	11283	11382	11466	11538	11601	11608
5°	11555	11458	11372	11485	11372	11458	11555	11661	11732	11786	11806
2.5°	11619	11546	11485	11525	11485	11546	11619	11742	11826	11891	11911
0°	11631	11526	11504	11473	11504	11526	11631	11807	11913	11999	12029
-2.5°	11615	11535	11488	11461	11488	11535	11615	11725	11811	11886	11913
-5°	11527	11454	11366	11403	11366	11454	11527	11645	11714	11773	11789
-7.5°	11375	11258	11225	11262	11225	11258	11375	11446	11519	11595	11592
-10°	11113	11027	11008	11026	11008	11027	11113	11208	11272	11328	11359
-12.5°	10863	10800	10779	10760	10779	10800	10863	10951	11038	11081	11091
-15°	10609	10552	10527	10516	10527	10552	10609	10691	10777	10838	10850
-17.5°	10333	10271	10231	10214	10231	10271	10333	10427	10503	10575	10614
-20°	10030	9947	9901	9870	9901	9947	10030	10118	10215	10298	10341



REPORT NUMBER: P731773  
 CATALOG NUMBER: NHRS50UBZ740-VS

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	9696	9615	9562	9535	9562	9615	9696	9781	9888	9985	10022
-25°	9331	9265	9198	9187	9198	9265	9331	9414	9507	9605	9668
-27.5°	8924	8880	8816	8782	8816	8880	8924	9009	9079	9181	9270
-30°	8487	8461	8419	8375	8419	8461	8487	8569	8627	8702	8772
-32.5°	8028	8007	7976	7947	7976	8007	8028	8078	8115	8147	8216
-35°	7494	7480	7458	7412	7458	7480	7494	7512	7536	7524	7578
-37.5°	6853	6849	6841	6810	6841	6849	6853	6840	6857	6848	6847
-40°	6092	6096	6102	6074	6102	6096	6092	6056	6075	6059	6008
-42.5°	5244	5248	5256	5221	5256	5248	5244	5198	5193	5148	5048
-45°	4315	4317	4334	4322	4334	4317	4315	4264	4229	4178	4126
-47.5°	3347	3357	3373	3345	3373	3357	3347	3298	3253	3193	3072
-50°	2450	2451	2464	2443	2464	2451	2450	2417	2370	2314	2216
-52.5°	1688	1680	1690	1684	1690	1680	1688	1670	1631	1596	1533
-55°	1136	1135	1141	1134	1141	1135	1136	1126	1104	1097	1065
-57.5°	825	823	827	825	827	823	825	819	806	796	775
-60°	632	633	637	635	637	633	632	627	618	610	598
-62.5°	505	506	508	506	508	506	505	501	495	488	478
-65°	408	409	411	410	411	409	408	405	399	392	384
-67.5°	324	329	328	326	328	329	324	321	317	312	306
-70°	251	253	252	250	252	253	251	249	246	243	238
-72.5°	186	187	186	185	186	187	186	185	183	181	177
-75°	131	131	130	128	130	131	131	131	131	129	126
-77.5°	85	85	84	82	84	85	85	85	84	83	82
-80°	54	54	53	52	53	54	54	53	52	52	51
-82.5°	39	39	39	39	39	39	39	38	38	37	36
-85°	30	30	30	29	30	30	30	29	29	29	28
-87.5°	24	24	24	24	24	24	24	23	23	23	21
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731773  
 CATALOG NUMBER: NHRS50UBZ740-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	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	2	2	1	1
62.5°	5	5	5	5	5	5	5	5	5	5	5
60°	13	12	13	13	12	12	14	13	9	12	13
57.5°	31	29	36	35	27	31	36	31	27	29	26
55°	100	104	107	96	78	84	78	69	66	60	58
52.5°	284	267	245	219	212	200	159	143	132	126	108
50°	515	552	500	393	425	407	357	283	252	230	189
47.5°	1052	1054	996	907	824	753	686	549	470	380	325
45°	1793	1715	1662	1545	1396	1270	1142	978	768	633	498
42.5°	2487	2383	2263	2198	1995	1814	1670	1488	1226	954	764
40°	3250	3043	2972	2963	2780	2400	2287	2116	1783	1410	1084
37.5°	4328	4246	4050	3945	3768	3390	3054	2801	2470	1973	1547
35°	5508	5411	5224	5044	4896	4364	3932	3587	3167	2573	2047
32.5°	6397	6244	6121	5943	5667	5210	4725	4346	3826	3186	2576
30°	6996	6877	6716	6626	6367	5938	5400	4975	4442	3792	3087
27.5°	7637	7510	7315	7251	7075	6644	6143	5627	5071	4379	3627
25°	8510	8400	8169	8028	7786	7401	6894	6332	5706	4967	4124
22.5°	9502	9332	9115	8899	8528	8086	7603	7035	6338	5494	4614
20°	10193	10061	9883	9595	9179	8749	8254	7610	6819	5975	5077
17.5°	10563	10501	10369	10091	9716	9287	8689	7995	7241	6413	5550
15°	10846	10777	10639	10429	10122	9632	9013	8317	7593	6786	5854
12.5°	11086	11016	10884	10672	10369	9907	9290	8581	7851	7010	6051
10°	11339	11245	11087	10857	10549	10121	9528	8813	8033	7167	6197
7.5°	11558	11455	11285	11029	10693	10263	9715	9011	8197	7294	6295
5°	11746	11620	11426	11154	10804	10362	9852	9171	8333	7385	6346
2.5°	11860	11738	11541	11258	10914	10455	9963	9308	8483	7499	6459
0°	11988	11864	11654	11351	10977	10522	9987	9346	8545	7521	6487
-2.5°	11865	11747	11555	11260	10905	10454	9941	9319	8526	7554	6497
-5°	11730	11611	11416	11132	10775	10339	9839	9226	8438	7494	6422
-7.5°	11538	11434	11252	10983	10639	10223	9741	9151	8393	7462	6423
-10°	11319	11220	11045	10799	10478	10085	9623	9054	8310	7388	6381
-12.5°	11065	10984	10832	10605	10299	9928	9487	8937	8195	7278	6296
-15°	10818	10746	10605	10388	10106	9754	9326	8787	8038	7130	6168
-17.5°	10582	10515	10387	10164	9891	9562	9131	8568	7827	6936	6025
-20°	10333	10256	10124	9920	9656	9353	8913	8342	7580	6695	5757



REPORT NUMBER: P731773  
 CATALOG NUMBER: NHRS50UBZ740-VS

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	10026	9960	9826	9649	9411	9053	8600	8039	7313	6414	5487
-25°	9667	9635	9505	9322	9089	8739	8245	7647	6919	6088	5177
-27.5°	9261	9225	9139	8941	8679	8312	7837	7235	6482	5655	4804
-30°	8798	8752	8660	8495	8179	7809	7391	6744	5970	5153	4324
-32.5°	8286	8198	8097	7922	7629	7249	6757	6190	5385	4591	3766
-35°	7604	7550	7422	7233	7008	6551	6046	5426	4747	3980	3164
-37.5°	6846	6790	6636	6448	6163	5765	5229	4640	4065	3302	2609
-40°	5972	5902	5753	5544	5247	4892	4375	3858	3237	2658	2077
-42.5°	5018	4942	4794	4561	4277	3922	3492	2997	2502	2046	1637
-45°	4007	3910	3763	3553	3280	2989	2638	2250	1855	1545	1218
-47.5°	2986	2919	2772	2592	2388	2141	1895	1602	1366	1115	950
-50°	2116	2070	1951	1783	1657	1474	1315	1141	982	855	725
-52.5°	1451	1416	1339	1210	1127	1044	929	837	736	659	581
-55°	1004	972	936	875	804	763	700	634	582	520	478
-57.5°	742	712	693	662	617	584	550	506	470	436	397
-60°	580	556	541	520	493	466	443	418	389	366	338
-62.5°	464	446	432	418	401	382	364	347	329	310	284
-65°	374	362	350	339	327	313	300	286	271	254	233
-67.5°	299	290	282	272	262	252	242	229	217	203	187
-70°	231	223	216	209	203	196	187	177	166	155	144
-72.5°	172	166	161	156	150	144	138	132	124	115	106
-75°	123	119	115	112	108	104	99	93	87	81	74
-77.5°	80	78	76	73	70	67	62	58	56	53	49
-80°	50	49	48	47	45	43	41	38	36	33	32
-82.5°	36	35	34	32	31	29	28	27	26	24	22
-85°	27	26	25	24	23	22	21	20	19	18	17
-87.5°	20	19	18	17	16	15	14	13	12	11	10
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P731773  
 CATALOG NUMBER: NHRS50UBZ740-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°	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°	2	1	1	2	2	1	1	2	2	2	1
62.5°	5	3	4	4	4	3	2	4	4	3	2
60°	10	9	9	10	9	6	6	7	7	5	4
57.5°	24	17	21	20	17	12	11	12	10	8	6
55°	46	40	40	37	30	21	20	19	14	11	8
52.5°	87	75	69	61	51	36	34	28	23	15	12
50°	153	126	109	94	76	63	50	42	32	20	17
47.5°	249	204	163	134	111	91	74	58	42	30	22
45°	405	304	237	189	150	126	102	76	58	41	28
42.5°	587	454	338	247	204	165	133	101	75	53	37
40°	854	638	461	346	262	204	166	128	92	66	47
37.5°	1161	877	641	444	329	259	203	156	112	82	57
35°	1582	1162	825	575	418	314	241	187	136	97	67
32.5°	2039	1484	1055	728	506	373	286	217	160	113	77
30°	2491	1866	1306	875	607	446	333	247	182	129	88
27.5°	2900	2226	1572	1077	735	521	374	275	204	146	101
25°	3321	2587	1886	1296	858	582	413	302	227	164	114
22.5°	3755	2946	2178	1510	958	640	456	335	249	181	126
20°	4157	3295	2439	1680	1085	723	504	365	271	198	138
17.5°	4530	3596	2666	1861	1220	799	547	393	291	213	149
15°	4813	3824	2871	2018	1336	866	587	419	309	228	159
12.5°	5028	4016	3045	2150	1433	924	621	441	326	239	167
10°	5194	4172	3189	2256	1511	974	652	460	338	248	174
7.5°	5311	4292	3301	2338	1572	1014	675	474	347	255	180
5°	5389	4386	3391	2422	1623	1045	694	485	357	264	187
2.5°	5472	4480	3470	2500	1665	1072	711	495	360	267	190
0°	5474	4501	3482	2529	1675	1080	718	499	363	270	193
-2.5°	5501	4511	3501	2539	1688	1085	722	502	366	272	195
-5°	5447	4447	3455	2498	1667	1073	715	500	370	274	197
-7.5°	5430	4414	3412	2450	1637	1055	707	497	365	271	195
-10°	5386	4373	3369	2410	1604	1035	694	491	362	269	194
-12.5°	5302	4293	3289	2339	1555	1010	680	483	358	266	192
-15°	5179	4174	3171	2235	1486	974	661	473	351	261	189
-17.5°	5015	4017	3017	2098	1398	925	636	460	343	256	186
-20°	4793	3808	2828	1927	1290	863	605	444	333	249	181



REPORT NUMBER: P731773  
 CATALOG NUMBER: NHRS50UBZ740-VS

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4527	3545	2601	1780	1185	789	568	424	322	242	176
-25°	4219	3235	2339	1611	1094	743	535	402	308	233	170
-27.5°	3850	2890	2047	1417	979	691	507	384	294	223	163
-30°	3422	2546	1796	1221	854	630	476	365	281	213	155
-32.5°	2926	2171	1535	1074	762	568	440	344	267	203	148
-35°	2454	1818	1273	918	684	521	405	321	252	192	141
-37.5°	2003	1467	1079	786	600	474	377	300	236	180	133
-40°	1593	1172	882	690	537	424	347	279	221	167	124
-42.5°	1219	955	744	587	480	389	319	257	204	155	115
-45°	983	767	625	516	423	353	290	234	186	144	106
-47.5°	767	638	530	446	382	318	263	213	168	131	97
-50°	628	529	454	392	337	286	235	191	152	118	88
-52.5°	512	449	392	343	298	253	210	171	136	106	79
-55°	427	383	339	299	260	222	183	150	119	94	70
-57.5°	364	327	293	259	225	192	160	131	105	82	62
-60°	308	280	250	221	191	163	138	113	91	70	55
-62.5°	260	235	211	185	161	138	116	96	76	61	47
-65°	214	194	175	153	133	114	97	79	64	51	39
-67.5°	170	155	140	122	107	92	78	65	53	41	33
-70°	132	120	108	96	83	71	62	52	41	34	27
-72.5°	98	89	80	71	62	55	47	39	33	27	20
-75°	67	62	57	51	45	39	35	30	25	19	16
-77.5°	46	42	37	34	32	28	25	20	17	15	13
-80°	30	29	26	23	21	18	16	15	13	11	9
-82.5°	21	19	17	16	15	14	12	11	9	7	6
-85°	16	14	13	12	11	9	8	7	6	5	4
-87.5°	9	8	7	6	6	5	4	3	3	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731773  
 CATALOG NUMBER: NHRS50UBZ740-VS

**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°	2	2	2	1	0	0	0
62.5°	2	3	2	1	0	1	0
60°	3	4	3	2	0	1	0
57.5°	5	5	3	2	1	1	0
55°	8	6	4	3	1	1	0
52.5°	10	7	5	3	1	1	0
50°	13	9	6	3	2	1	0
47.5°	17	12	7	4	2	1	0
45°	22	15	9	5	3	1	0
42.5°	27	18	10	6	3	1	0
40°	32	21	11	7	3	1	0
37.5°	38	24	14	8	4	1	0
35°	44	28	16	9	4	1	0
32.5°	51	33	18	10	5	1	0
30°	59	37	21	11	5	1	0
27.5°	67	42	23	12	5	1	0
25°	75	47	26	13	6	1	0
22.5°	83	51	28	14	6	1	0
20°	91	56	30	15	7	2	0
17.5°	98	60	33	15	7	2	0
15°	104	64	35	16	7	2	0
12.5°	109	67	37	17	8	2	0
10°	114	71	39	18	8	2	0
7.5°	119	74	41	19	8	2	0
5°	124	78	43	20	9	2	0
2.5°	127	80	44	20	9	2	0
0°	130	82	45	21	9	2	0
-2.5°	132	84	46	22	9	2	0
-5°	134	86	47	22	9	2	0
-7.5°	133	86	48	23	10	2	0
-10°	133	86	48	23	10	2	0
-12.5°	133	86	48	23	10	2	0
-15°	131	86	48	23	10	2	0
-17.5°	130	85	48	23	10	2	0
-20°	127	84	48	23	9	2	0



REPORT NUMBER: P731773  
 CATALOG NUMBER: NHRS50UBZ740-VS

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	124	82	47	23	9	2	0
-25°	120	79	46	23	9	2	0
-27.5°	116	76	45	22	9	2	0
-30°	111	73	43	22	9	2	0
-32.5°	105	69	41	21	9	2	0
-35°	99	64	39	20	9	2	0
-37.5°	94	60	37	19	8	2	0
-40°	88	57	34	18	8	2	0
-42.5°	81	53	32	17	8	2	0
-45°	74	50	30	15	7	2	0
-47.5°	67	46	28	14	7	2	0
-50°	62	41	25	13	7	2	0
-52.5°	56	37	23	12	6	2	0
-55°	51	33	20	11	6	2	0
-57.5°	45	30	18	10	5	2	0
-60°	39	26	15	9	5	2	0
-62.5°	34	23	14	9	4	2	0
-65°	29	19	12	8	4	1	0
-67.5°	24	16	11	6	4	1	0
-70°	19	14	9	5	3	1	0
-72.5°	16	11	7	5	3	1	0
-75°	13	9	6	4	3	1	0
-77.5°	10	7	5	3	2	1	0
-80°	6	5	4	3	2	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)