

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: P731766

Luminaire Tested: **NHRS50UBZ730\_25**

Issue Date: 09/15/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P731766  
Test Lab: INNOVATION CENTER  
Issue Date: 09/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NHRS50UBZ730\_25  
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 3000K @ 25% output  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

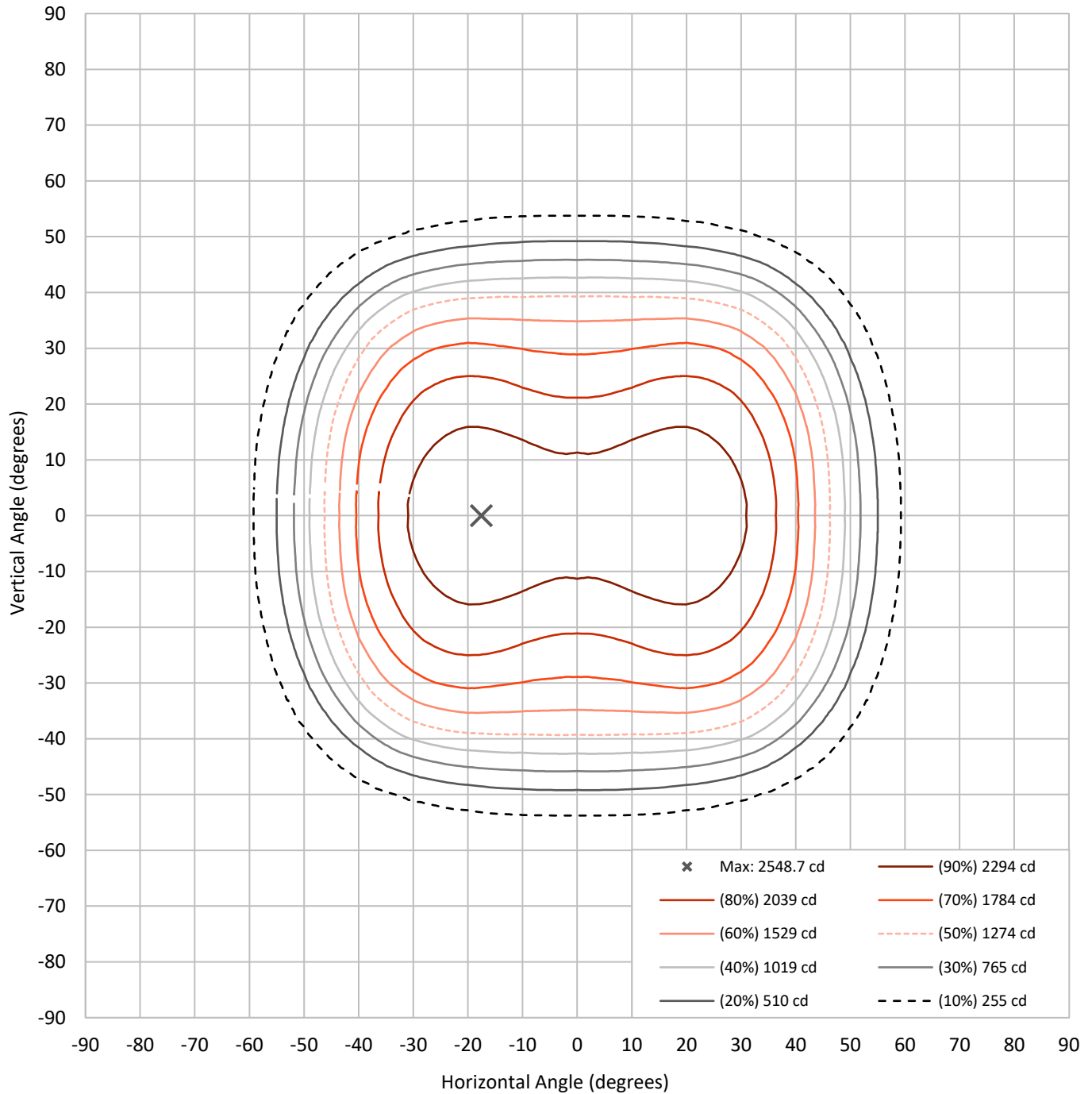
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	4543.5 lumens	Max Intensity:	2548.7 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	122.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.5' x H: 0')		
Beam Angle (50%):	92.5°H x 78.1°V	Field Angle (10%):	118.5°H x 106.2°V
Beam Lumens:	3617.9 lumens	Field Lumens:	4369.5 lumens
Beam Efficiency:	79.6%	Field Efficiency:	96.2%
Input Watts (W):	37.1		
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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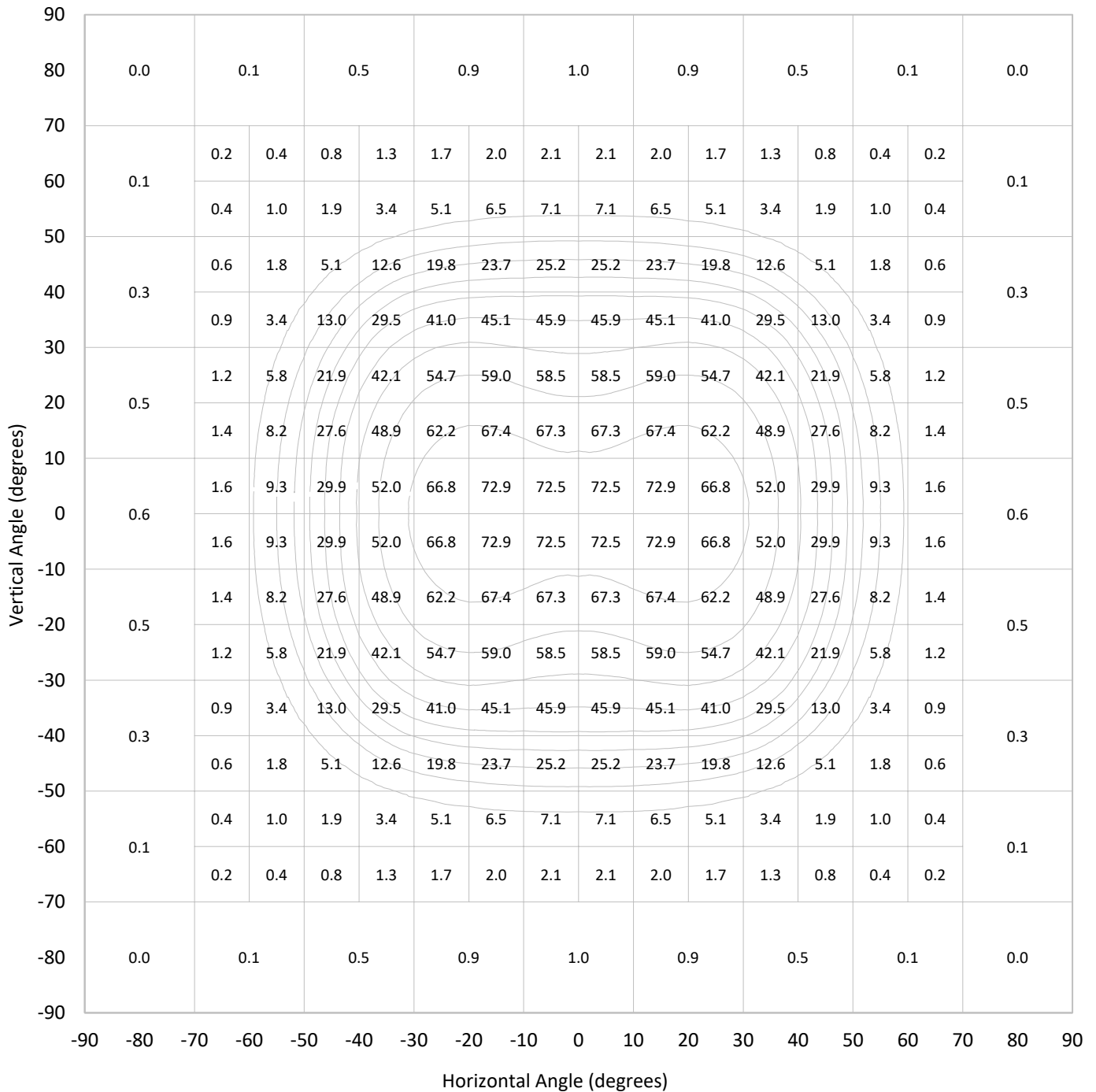
### Iso-Candela Plot





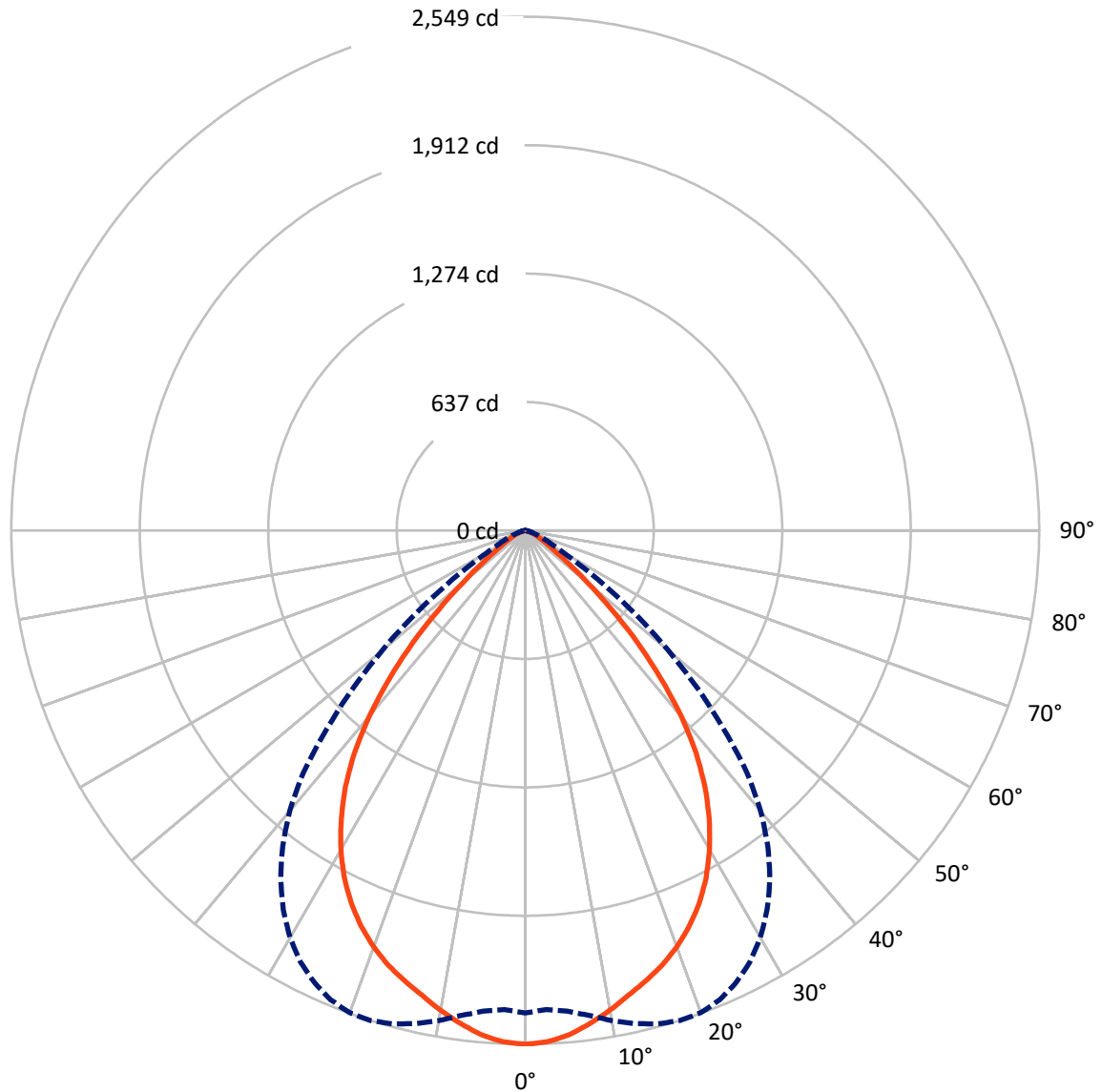
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### Lumen Table



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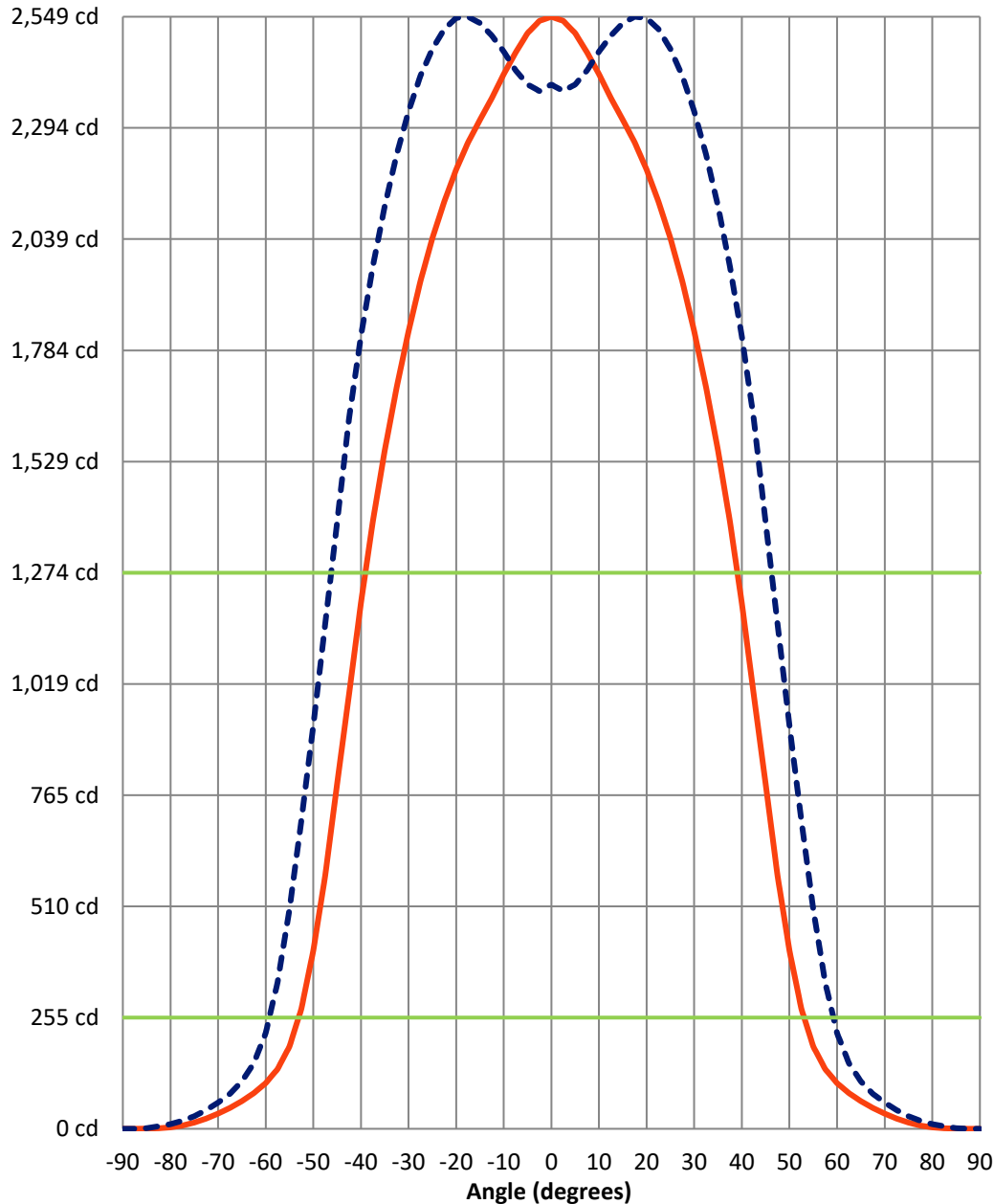
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 92.5°  
V Angle: 78.1°  
Lumens: 3617.9  
Efficiency: 79.6%

**Field:**  
H Angle: 118.5°  
V Angle: 106.2°  
Lumens: 4369.5  
Efficiency: 96.2%

**Spill:**  
Lumens: 174  
Efficiency: 3.8%

— 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	1	1
77.5°	0	0	0	0	0	0	0	1	1	1	1
75°	0	0	0	0	0	1	1	1	1	2	3
72.5°	0	0	0	0	0	1	1	1	2	3	4
70°	0	0	0	0	1	1	1	3	4	5	6
67.5°	0	0	0	0	1	1	2	4	5	7	9
65°	0	0	0	1	1	2	3	5	7	9	11
62.5°	0	0	0	1	1	2	4	6	9	11	15
60°	0	0	0	1	1	3	5	8	11	14	18
57.5°	0	0	0	1	2	4	6	9	13	17	22
55°	0	0	0	1	3	5	8	11	15	20	26
52.5°	0	0	0	1	3	6	9	13	18	24	31
50°	0	0	1	1	4	6	10	15	21	27	35
47.5°	0	0	1	1	4	7	11	17	23	31	39
45°	0	0	1	2	5	8	13	19	26	34	43
42.5°	0	0	1	2	5	9	14	21	29	38	48
40°	0	0	1	3	6	10	16	23	32	42	53
37.5°	0	0	1	3	6	11	17	25	35	45	58
35°	0	0	1	3	7	11	18	27	37	49	63
32.5°	0	0	1	4	7	12	19	29	40	53	68
30°	0	0	1	4	8	13	21	31	42	56	73
27.5°	0	0	1	4	8	14	22	33	45	59	78
25°	0	0	1	4	9	15	23	35	48	63	82
22.5°	0	0	1	5	9	16	25	36	50	66	87
20°	0	0	1	5	10	16	26	38	52	69	92
17.5°	0	0	1	5	10	17	27	39	54	72	96
15°	0	0	1	5	10	17	27	40	56	75	99
12.5°	0	0	1	5	10	18	28	41	57	77	102
10°	0	0	1	6	11	18	28	42	58	78	105
7.5°	0	0	1	6	11	18	29	42	59	79	107
5°	0	0	1	6	11	18	29	43	60	81	108
2.5°	0	0	1	6	11	18	29	43	60	81	109
0°	0	0	1	6	11	18	29	43	60	80	109
-2.5°	0	0	1	6	11	18	29	43	60	81	109
-5°	0	0	1	6	11	18	29	43	60	81	108
-7.5°	0	0	1	6	11	18	29	42	59	79	107
-10°	0	0	1	6	11	18	28	42	58	78	105
-12.5°	0	0	1	5	10	18	28	41	57	77	102
-15°	0	0	1	5	10	17	27	40	56	75	99
-17.5°	0	0	1	5	10	17	27	39	54	72	96
-20°	0	0	1	5	10	16	26	38	52	69	92



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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	0	1	5	9	16	25	36	50	66	87
-25°	0	0	1	4	9	15	23	35	48	63	82
-27.5°	0	0	1	4	8	14	22	33	45	59	78
-30°	0	0	1	4	8	13	21	31	42	56	73
-32.5°	0	0	1	4	7	12	19	29	40	53	68
-35°	0	0	1	3	7	11	18	27	37	49	63
-37.5°	0	0	1	3	6	11	17	25	35	45	58
-40°	0	0	1	3	6	10	16	23	32	42	53
-42.5°	0	0	1	2	5	9	14	21	29	38	48
-45°	0	0	1	2	5	8	13	19	26	34	43
-47.5°	0	0	1	1	4	7	11	17	23	31	39
-50°	0	0	1	1	4	6	10	15	21	27	35
-52.5°	0	0	0	1	3	6	9	13	18	24	31
-55°	0	0	0	1	3	5	8	11	15	20	26
-57.5°	0	0	0	1	2	4	6	9	13	17	22
-60°	0	0	0	1	1	3	5	8	11	14	18
-62.5°	0	0	0	1	1	2	4	6	9	11	15
-65°	0	0	0	1	1	2	3	5	7	9	11
-67.5°	0	0	0	0	1	1	2	4	5	7	9
-70°	0	0	0	0	1	1	1	3	4	5	6
-72.5°	0	0	0	0	0	1	1	1	2	3	4
-75°	0	0	0	0	0	1	1	1	1	2	3
-77.5°	0	0	0	0	0	0	0	1	1	1	1
-80°	0	0	0	0	0	0	0	0	0	1	1
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-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	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	2	2
77.5°	2	2	2	2	3	3	4	4	4	4	5
75°	3	4	4	5	6	6	6	7	8	9	10
72.5°	5	6	7	8	9	11	12	13	14	16	17
70°	8	9	11	12	14	16	18	20	21	23	25
67.5°	11	13	15	17	20	23	25	28	31	33	35
65°	14	17	20	24	27	30	34	37	41	44	47
62.5°	18	22	26	30	34	38	43	47	52	56	59
60°	23	27	32	37	42	48	53	58	63	68	73
57.5°	27	33	39	45	51	58	64	70	77	83	90
55°	32	39	46	53	61	68	76	85	93	104	113
52.5°	38	45	54	62	71	81	91	103	117	131	149
50°	43	52	62	72	83	95	111	129	151	174	203
47.5°	48	59	71	83	97	115	136	166	195	241	286
45°	54	66	79	96	114	138	173	211	271	330	409
42.5°	61	74	90	108	135	171	214	286	362	455	557
40°	67	81	101	127	160	209	282	367	481	599	730
37.5°	73	91	113	145	196	263	355	471	608	761	900
35°	79	100	129	169	231	326	442	579	742	916	1073
32.5°	86	109	143	197	278	391	531	700	877	1062	1240
30°	94	121	160	223	327	464	630	815	1005	1193	1367
27.5°	100	133	182	260	375	531	722	924	1121	1312	1482
25°	107	144	203	297	433	604	805	1016	1225	1416	1580
22.5°	114	153	221	331	485	673	882	1098	1312	1512	1672
20°	122	168	243	362	531	733	951	1172	1387	1583	1747
17.5°	129	181	267	399	576	785	1010	1246	1455	1650	1806
15°	135	192	286	429	615	829	1057	1289	1511	1709	1861
12.5°	140	201	302	453	646	864	1094	1328	1553	1750	1902
10°	144	208	314	472	670	889	1121	1356	1583	1777	1932
7.5°	147	214	323	485	686	905	1139	1375	1605	1798	1954
5°	149	217	331	496	698	916	1149	1384	1616	1812	1970
2.5°	150	220	337	505	710	928	1162	1397	1632	1823	1982
0°	150	220	336	503	707	924	1157	1390	1627	1816	1976
-2.5°	150	220	337	505	710	928	1162	1397	1632	1823	1982
-5°	149	217	331	496	698	916	1149	1384	1616	1812	1970
-7.5°	147	214	323	485	686	905	1139	1375	1605	1798	1954
-10°	144	208	314	472	670	889	1121	1356	1583	1777	1932
-12.5°	140	201	302	453	646	864	1094	1328	1553	1750	1902
-15°	135	192	286	429	615	829	1057	1289	1511	1709	1861
-17.5°	129	181	267	399	576	785	1010	1246	1455	1650	1806
-20°	122	168	243	362	531	733	951	1172	1387	1583	1747



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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°	114	153	221	331	485	673	882	1098	1312	1512	1672
-25°	107	144	203	297	433	604	805	1016	1225	1416	1580
-27.5°	100	133	182	260	375	531	722	924	1121	1312	1482
-30°	94	121	160	223	327	464	630	815	1005	1193	1367
-32.5°	86	109	143	197	278	391	531	700	877	1062	1240
-35°	79	100	129	169	231	326	442	579	742	916	1073
-37.5°	73	91	113	145	196	263	355	471	608	761	900
-40°	67	81	101	127	160	209	282	367	481	599	730
-42.5°	61	74	90	108	135	171	214	286	362	455	557
-45°	54	66	79	96	114	138	173	211	271	330	409
-47.5°	48	59	71	83	97	115	136	166	195	241	286
-50°	43	52	62	72	83	95	111	129	151	174	203
-52.5°	38	45	54	62	71	81	91	103	117	131	149
-55°	32	39	46	53	61	68	76	85	93	104	113
-57.5°	27	33	39	45	51	58	64	70	77	83	90
-60°	23	27	32	37	42	48	53	58	63	68	73
-62.5°	18	22	26	30	34	38	43	47	52	56	59
-65°	14	17	20	24	27	30	34	37	41	44	47
-67.5°	11	13	15	17	20	23	25	28	31	33	35
-70°	8	9	11	12	14	16	18	20	21	23	25
-72.5°	5	6	7	8	9	11	12	13	14	16	17
-75°	3	4	4	5	6	6	6	7	8	9	10
-77.5°	2	2	2	2	3	3	4	4	4	4	5
-80°	1	1	1	1	1	1	1	1	1	2	2
-82.5°	0	0	0	0	0	0	0	1	1	1	1
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-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	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	2	2	3	3	3	3	3	3	3	3	3
77.5°	5	6	6	6	7	7	7	7	7	7	7
75°	11	11	12	13	13	14	14	14	15	15	15
72.5°	18	19	20	21	22	22	23	23	24	24	24
70°	27	28	30	31	32	33	34	35	35	36	36
67.5°	37	39	41	42	44	46	47	48	49	49	50
65°	49	52	54	56	58	60	62	63	64	65	66
62.5°	62	66	69	72	75	77	80	82	83	84	85
60°	78	83	87	91	95	98	102	105	107	108	109
57.5°	98	103	108	116	122	126	132	137	140	141	144
55°	124	135	141	155	166	173	178	189	195	197	201
52.5°	164	185	201	216	240	253	258	275	287	292	300
50°	235	265	300	324	356	379	390	409	425	433	442
47.5°	344	391	441	479	514	547	564	580	601	611	619
45°	489	563	620	670	710	745	767	790	803	812	817
42.5°	666	756	824	879	925	961	984	995	1014	1021	1021
40°	849	961	1033	1093	1138	1175	1194	1205	1216	1221	1217
37.5°	1032	1149	1233	1293	1335	1369	1386	1392	1396	1396	1390
35°	1209	1320	1418	1470	1512	1540	1556	1554	1545	1546	1537
32.5°	1367	1476	1563	1627	1665	1689	1709	1699	1686	1677	1666
30°	1511	1609	1690	1758	1797	1819	1832	1828	1812	1793	1780
27.5°	1619	1727	1806	1867	1914	1936	1943	1942	1924	1900	1882
25°	1716	1825	1907	1964	2008	2036	2042	2041	2025	1999	1973
22.5°	1798	1903	1990	2053	2090	2117	2129	2125	2114	2086	2053
20°	1874	1979	2055	2119	2162	2187	2201	2198	2186	2163	2131
17.5°	1932	2033	2112	2175	2222	2249	2259	2261	2247	2228	2203
15°	1983	2082	2163	2225	2271	2300	2314	2312	2302	2284	2264
12.5°	2024	2125	2209	2273	2320	2349	2363	2362	2352	2336	2317
10°	2058	2163	2248	2314	2364	2398	2416	2417	2405	2387	2367
7.5°	2083	2192	2282	2354	2408	2444	2463	2467	2458	2437	2413
5°	2103	2216	2310	2385	2442	2483	2506	2511	2498	2477	2453
2.5°	2119	2236	2334	2411	2471	2514	2537	2539	2525	2501	2471
0°	2114	2232	2332	2413	2475	2520	2546	2549	2534	2505	2469
-2.5°	2119	2236	2334	2411	2471	2514	2537	2539	2525	2501	2471
-5°	2103	2216	2310	2385	2442	2483	2506	2511	2498	2477	2453
-7.5°	2083	2192	2282	2354	2408	2444	2463	2467	2458	2437	2413
-10°	2058	2163	2248	2314	2364	2398	2416	2417	2405	2387	2367
-12.5°	2024	2125	2209	2273	2320	2349	2363	2362	2352	2336	2317
-15°	1983	2082	2163	2225	2271	2300	2314	2312	2302	2284	2264
-17.5°	1932	2033	2112	2175	2222	2249	2259	2261	2247	2228	2203
-20°	1874	1979	2055	2119	2162	2187	2201	2198	2186	2163	2131



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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°	1798	1903	1990	2053	2090	2117	2129	2125	2114	2086	2053
-25°	1716	1825	1907	1964	2008	2036	2042	2041	2025	1999	1973
-27.5°	1619	1727	1806	1867	1914	1936	1943	1942	1924	1900	1882
-30°	1511	1609	1690	1758	1797	1819	1832	1828	1812	1793	1780
-32.5°	1367	1476	1563	1627	1665	1689	1709	1699	1686	1677	1666
-35°	1209	1320	1418	1470	1512	1540	1556	1554	1545	1546	1537
-37.5°	1032	1149	1233	1293	1335	1369	1386	1392	1396	1396	1390
-40°	849	961	1033	1093	1138	1175	1194	1205	1216	1221	1217
-42.5°	666	756	824	879	925	961	984	995	1014	1021	1021
-45°	489	563	620	670	710	745	767	790	803	812	817
-47.5°	344	391	441	479	514	547	564	580	601	611	619
-50°	235	265	300	324	356	379	390	409	425	433	442
-52.5°	164	185	201	216	240	253	258	275	287	292	300
-55°	124	135	141	155	166	173	178	189	195	197	201
-57.5°	98	103	108	116	122	126	132	137	140	141	144
-60°	78	83	87	91	95	98	102	105	107	108	109
-62.5°	62	66	69	72	75	77	80	82	83	84	85
-65°	49	52	54	56	58	60	62	63	64	65	66
-67.5°	37	39	41	42	44	46	47	48	49	49	50
-70°	27	28	30	31	32	33	34	35	35	36	36
-72.5°	18	19	20	21	22	22	23	23	24	24	24
-75°	11	11	12	13	13	14	14	14	15	15	15
-77.5°	5	6	6	6	7	7	7	7	7	7	7
-80°	2	2	3	3	3	3	3	3	3	3	3
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	0	0	0	1	1	1	1	1	1	1	1
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731766  
 CATALOG NUMBER: NHRS50UBZ730\_25

**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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	3	3	3	3	3	3	3	3	3	3	3
77.5°	7	7	7	7	7	7	7	7	7	7	7
75°	15	14	14	14	14	14	15	15	15	15	14
72.5°	24	24	24	24	24	24	24	24	24	24	23
70°	36	37	37	36	37	37	36	36	36	35	35
67.5°	50	51	51	50	51	51	50	50	49	49	48
65°	67	67	67	67	67	67	67	66	65	64	63
62.5°	86	86	87	87	87	86	86	85	84	83	82
60°	110	110	111	111	111	110	110	109	108	107	105
57.5°	145	145	146	146	146	145	145	144	141	140	137
55°	203	202	203	202	203	202	203	201	197	195	189
52.5°	304	304	307	305	307	304	304	300	292	287	275
50°	450	451	454	451	454	451	450	442	433	425	409
47.5°	629	631	635	632	635	631	629	619	611	601	580
45°	828	831	834	829	834	831	828	817	812	803	790
42.5°	1033	1034	1037	1030	1037	1034	1033	1021	1021	1014	995
40°	1227	1229	1231	1225	1231	1229	1227	1217	1221	1216	1205
37.5°	1393	1394	1395	1389	1395	1394	1393	1390	1396	1396	1392
35°	1532	1530	1526	1523	1526	1530	1532	1537	1546	1545	1554
32.5°	1653	1649	1643	1641	1643	1649	1653	1666	1677	1686	1699
30°	1760	1755	1746	1744	1746	1755	1760	1780	1793	1812	1828
27.5°	1859	1849	1834	1835	1834	1849	1859	1882	1900	1924	1942
25°	1949	1932	1918	1917	1918	1932	1949	1973	1999	2025	2041
22.5°	2030	2010	1997	1996	1997	2010	2030	2053	2086	2114	2125
20°	2106	2084	2076	2075	2076	2084	2106	2131	2163	2186	2198
17.5°	2174	2156	2150	2147	2150	2156	2174	2203	2228	2247	2261
15°	2238	2220	2214	2215	2214	2220	2238	2264	2284	2302	2312
12.5°	2295	2274	2266	2270	2266	2274	2295	2317	2336	2352	2362
10°	2347	2324	2312	2320	2312	2324	2347	2367	2387	2405	2417
7.5°	2389	2371	2356	2365	2356	2371	2389	2413	2437	2458	2467
5°	2422	2398	2384	2390	2384	2398	2422	2453	2477	2498	2511
2.5°	2436	2413	2397	2395	2397	2413	2436	2471	2501	2525	2539
0°	2426	2394	2379	2393	2379	2394	2426	2469	2505	2534	2549
-2.5°	2436	2413	2397	2395	2397	2413	2436	2471	2501	2525	2539
-5°	2422	2398	2384	2390	2384	2398	2422	2453	2477	2498	2511
-7.5°	2389	2371	2356	2365	2356	2371	2389	2413	2437	2458	2467
-10°	2347	2324	2312	2320	2312	2324	2347	2367	2387	2405	2417
-12.5°	2295	2274	2266	2270	2266	2274	2295	2317	2336	2352	2362
-15°	2238	2220	2214	2215	2214	2220	2238	2264	2284	2302	2312
-17.5°	2174	2156	2150	2147	2150	2156	2174	2203	2228	2247	2261
-20°	2106	2084	2076	2075	2076	2084	2106	2131	2163	2186	2198



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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°	2030	2010	1997	1996	1997	2010	2030	2053	2086	2114	2125
-25°	1949	1932	1918	1917	1918	1932	1949	1973	1999	2025	2041
-27.5°	1859	1849	1834	1835	1834	1849	1859	1882	1900	1924	1942
-30°	1760	1755	1746	1744	1746	1755	1760	1780	1793	1812	1828
-32.5°	1653	1649	1643	1641	1643	1649	1653	1666	1677	1686	1699
-35°	1532	1530	1526	1523	1526	1530	1532	1537	1546	1545	1554
-37.5°	1393	1394	1395	1389	1395	1394	1393	1390	1396	1396	1392
-40°	1227	1229	1231	1225	1231	1229	1227	1217	1221	1216	1205
-42.5°	1033	1034	1037	1030	1037	1034	1033	1021	1021	1014	995
-45°	828	831	834	829	834	831	828	817	812	803	790
-47.5°	629	631	635	632	635	631	629	619	611	601	580
-50°	450	451	454	451	454	451	450	442	433	425	409
-52.5°	304	304	307	305	307	304	304	300	292	287	275
-55°	203	202	203	202	203	202	203	201	197	195	189
-57.5°	145	145	146	146	146	145	145	144	141	140	137
-60°	110	110	111	111	111	110	110	109	108	107	105
-62.5°	86	86	87	87	87	86	86	85	84	83	82
-65°	67	67	67	67	67	67	67	66	65	64	63
-67.5°	50	51	51	50	51	51	50	50	49	49	48
-70°	36	37	37	36	37	37	36	36	36	35	35
-72.5°	24	24	24	24	24	24	24	24	24	24	23
-75°	15	14	14	14	14	14	15	15	15	15	14
-77.5°	7	7	7	7	7	7	7	7	7	7	7
-80°	3	3	3	3	3	3	3	3	3	3	3
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	1	1	1	1
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731766  
 CATALOG NUMBER: NHRS50UBZ730\_25

**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°	1	1	1	1	0	0	0	0	0	0	0
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	3	3	3	3	3	2	2	2	2	1	1
77.5°	7	7	7	6	6	6	5	5	4	4	4
75°	14	14	13	13	12	11	11	10	9	8	7
72.5°	23	22	22	21	20	19	18	17	16	14	13
70°	34	33	32	31	30	28	27	25	23	21	20
67.5°	47	46	44	42	41	39	37	35	33	31	28
65°	62	60	58	56	54	52	49	47	44	41	37
62.5°	80	77	75	72	69	66	62	59	56	52	47
60°	102	98	95	91	87	83	78	73	68	63	58
57.5°	132	126	122	116	108	103	98	90	83	77	70
55°	178	173	166	155	141	135	124	113	104	93	85
52.5°	258	253	240	216	201	185	164	149	131	117	103
50°	390	379	356	324	300	265	235	203	174	151	129
47.5°	564	547	514	479	441	391	344	286	241	195	166
45°	767	745	710	670	620	563	489	409	330	271	211
42.5°	984	961	925	879	824	756	666	557	455	362	286
40°	1194	1175	1138	1093	1033	961	849	730	599	481	367
37.5°	1386	1369	1335	1293	1233	1149	1032	900	761	608	471
35°	1556	1540	1512	1470	1418	1320	1209	1073	916	742	579
32.5°	1709	1689	1665	1627	1563	1476	1367	1240	1062	877	700
30°	1832	1819	1797	1758	1690	1609	1511	1367	1193	1005	815
27.5°	1943	1936	1914	1867	1806	1727	1619	1482	1312	1121	924
25°	2042	2036	2008	1964	1907	1825	1716	1580	1416	1225	1016
22.5°	2129	2117	2090	2053	1990	1903	1798	1672	1512	1312	1098
20°	2201	2187	2162	2119	2055	1979	1874	1747	1583	1387	1172
17.5°	2259	2249	2222	2175	2112	2033	1932	1806	1650	1455	1246
15°	2314	2300	2271	2225	2163	2082	1983	1861	1709	1511	1289
12.5°	2363	2349	2320	2273	2209	2125	2024	1902	1750	1553	1328
10°	2416	2398	2364	2314	2248	2163	2058	1932	1777	1583	1356
7.5°	2463	2444	2408	2354	2282	2192	2083	1954	1798	1605	1375
5°	2506	2483	2442	2385	2310	2216	2103	1970	1812	1616	1384
2.5°	2537	2514	2471	2411	2334	2236	2119	1982	1823	1632	1397
0°	2546	2520	2475	2413	2332	2232	2114	1976	1816	1627	1390
-2.5°	2537	2514	2471	2411	2334	2236	2119	1982	1823	1632	1397
-5°	2506	2483	2442	2385	2310	2216	2103	1970	1812	1616	1384
-7.5°	2463	2444	2408	2354	2282	2192	2083	1954	1798	1605	1375
-10°	2416	2398	2364	2314	2248	2163	2058	1932	1777	1583	1356
-12.5°	2363	2349	2320	2273	2209	2125	2024	1902	1750	1553	1328
-15°	2314	2300	2271	2225	2163	2082	1983	1861	1709	1511	1289
-17.5°	2259	2249	2222	2175	2112	2033	1932	1806	1650	1455	1246
-20°	2201	2187	2162	2119	2055	1979	1874	1747	1583	1387	1172



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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°	2129	2117	2090	2053	1990	1903	1798	1672	1512	1312	1098
-25°	2042	2036	2008	1964	1907	1825	1716	1580	1416	1225	1016
-27.5°	1943	1936	1914	1867	1806	1727	1619	1482	1312	1121	924
-30°	1832	1819	1797	1758	1690	1609	1511	1367	1193	1005	815
-32.5°	1709	1689	1665	1627	1563	1476	1367	1240	1062	877	700
-35°	1556	1540	1512	1470	1418	1320	1209	1073	916	742	579
-37.5°	1386	1369	1335	1293	1233	1149	1032	900	761	608	471
-40°	1194	1175	1138	1093	1033	961	849	730	599	481	367
-42.5°	984	961	925	879	824	756	666	557	455	362	286
-45°	767	745	710	670	620	563	489	409	330	271	211
-47.5°	564	547	514	479	441	391	344	286	241	195	166
-50°	390	379	356	324	300	265	235	203	174	151	129
-52.5°	258	253	240	216	201	185	164	149	131	117	103
-55°	178	173	166	155	141	135	124	113	104	93	85
-57.5°	132	126	122	116	108	103	98	90	83	77	70
-60°	102	98	95	91	87	83	78	73	68	63	58
-62.5°	80	77	75	72	69	66	62	59	56	52	47
-65°	62	60	58	56	54	52	49	47	44	41	37
-67.5°	47	46	44	42	41	39	37	35	33	31	28
-70°	34	33	32	31	30	28	27	25	23	21	20
-72.5°	23	22	22	21	20	19	18	17	16	14	13
-75°	14	14	13	13	12	11	11	10	9	8	7
-77.5°	7	7	7	6	6	6	5	5	4	4	4
-80°	3	3	3	3	3	2	2	2	2	1	1
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P731766  
 CATALOG NUMBER: NHRS50UBZ730\_25

**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°	1	1	1	1	1	1	1	1	1	0	0
77.5°	4	3	3	2	2	2	2	1	1	1	1
75°	6	6	6	5	4	4	3	3	2	1	1
72.5°	12	11	9	8	7	6	5	4	3	2	1
70°	18	16	14	12	11	9	8	6	5	4	3
67.5°	25	23	20	17	15	13	11	9	7	5	4
65°	34	30	27	24	20	17	14	11	9	7	5
62.5°	43	38	34	30	26	22	18	15	11	9	6
60°	53	48	42	37	32	27	23	18	14	11	8
57.5°	64	58	51	45	39	33	27	22	17	13	9
55°	76	68	61	53	46	39	32	26	20	15	11
52.5°	91	81	71	62	54	45	38	31	24	18	13
50°	111	95	83	72	62	52	43	35	27	21	15
47.5°	136	115	97	83	71	59	48	39	31	23	17
45°	173	138	114	96	79	66	54	43	34	26	19
42.5°	214	171	135	108	90	74	61	48	38	29	21
40°	282	209	160	127	101	81	67	53	42	32	23
37.5°	355	263	196	145	113	91	73	58	45	35	25
35°	442	326	231	169	129	100	79	63	49	37	27
32.5°	531	391	278	197	143	109	86	68	53	40	29
30°	630	464	327	223	160	121	94	73	56	42	31
27.5°	722	531	375	260	182	133	100	78	59	45	33
25°	805	604	433	297	203	144	107	82	63	48	35
22.5°	882	673	485	331	221	153	114	87	66	50	36
20°	951	733	531	362	243	168	122	92	69	52	38
17.5°	1010	785	576	399	267	181	129	96	72	54	39
15°	1057	829	615	429	286	192	135	99	75	56	40
12.5°	1094	864	646	453	302	201	140	102	77	57	41
10°	1121	889	670	472	314	208	144	105	78	58	42
7.5°	1139	905	686	485	323	214	147	107	79	59	42
5°	1149	916	698	496	331	217	149	108	81	60	43
2.5°	1162	928	710	505	337	220	150	109	81	60	43
0°	1157	924	707	503	336	220	150	109	80	60	43
-2.5°	1162	928	710	505	337	220	150	109	81	60	43
-5°	1149	916	698	496	331	217	149	108	81	60	43
-7.5°	1139	905	686	485	323	214	147	107	79	59	42
-10°	1121	889	670	472	314	208	144	105	78	58	42
-12.5°	1094	864	646	453	302	201	140	102	77	57	41
-15°	1057	829	615	429	286	192	135	99	75	56	40
-17.5°	1010	785	576	399	267	181	129	96	72	54	39
-20°	951	733	531	362	243	168	122	92	69	52	38



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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°	882	673	485	331	221	153	114	87	66	50	36
-25°	805	604	433	297	203	144	107	82	63	48	35
-27.5°	722	531	375	260	182	133	100	78	59	45	33
-30°	630	464	327	223	160	121	94	73	56	42	31
-32.5°	531	391	278	197	143	109	86	68	53	40	29
-35°	442	326	231	169	129	100	79	63	49	37	27
-37.5°	355	263	196	145	113	91	73	58	45	35	25
-40°	282	209	160	127	101	81	67	53	42	32	23
-42.5°	214	171	135	108	90	74	61	48	38	29	21
-45°	173	138	114	96	79	66	54	43	34	26	19
-47.5°	136	115	97	83	71	59	48	39	31	23	17
-50°	111	95	83	72	62	52	43	35	27	21	15
-52.5°	91	81	71	62	54	45	38	31	24	18	13
-55°	76	68	61	53	46	39	32	26	20	15	11
-57.5°	64	58	51	45	39	33	27	22	17	13	9
-60°	53	48	42	37	32	27	23	18	14	11	8
-62.5°	43	38	34	30	26	22	18	15	11	9	6
-65°	34	30	27	24	20	17	14	11	9	7	5
-67.5°	25	23	20	17	15	13	11	9	7	5	4
-70°	18	16	14	12	11	9	8	6	5	4	3
-72.5°	12	11	9	8	7	6	5	4	3	2	1
-75°	6	6	6	5	4	4	3	3	2	1	1
-77.5°	4	3	3	2	2	2	2	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731766  
 CATALOG NUMBER: NHRS50UBZ730\_25

**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°	1	1	0	0	0	0	0
72.5°	1	1	0	0	0	0	0
70°	1	1	1	0	0	0	0
67.5°	2	1	1	0	0	0	0
65°	3	2	1	1	0	0	0
62.5°	4	2	1	1	0	0	0
60°	5	3	1	1	0	0	0
57.5°	6	4	2	1	0	0	0
55°	8	5	3	1	0	0	0
52.5°	9	6	3	1	0	0	0
50°	10	6	4	1	1	0	0
47.5°	11	7	4	1	1	0	0
45°	13	8	5	2	1	0	0
42.5°	14	9	5	2	1	0	0
40°	16	10	6	3	1	0	0
37.5°	17	11	6	3	1	0	0
35°	18	11	7	3	1	0	0
32.5°	19	12	7	4	1	0	0
30°	21	13	8	4	1	0	0
27.5°	22	14	8	4	1	0	0
25°	23	15	9	4	1	0	0
22.5°	25	16	9	5	1	0	0
20°	26	16	10	5	1	0	0
17.5°	27	17	10	5	1	0	0
15°	27	17	10	5	1	0	0
12.5°	28	18	10	5	1	0	0
10°	28	18	11	6	1	0	0
7.5°	29	18	11	6	1	0	0
5°	29	18	11	6	1	0	0
2.5°	29	18	11	6	1	0	0
0°	29	18	11	6	1	0	0
-2.5°	29	18	11	6	1	0	0
-5°	29	18	11	6	1	0	0
-7.5°	29	18	11	6	1	0	0
-10°	28	18	11	6	1	0	0
-12.5°	28	18	10	5	1	0	0
-15°	27	17	10	5	1	0	0
-17.5°	27	17	10	5	1	0	0
-20°	26	16	10	5	1	0	0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	25	16	9	5	1	0	0
-25°	23	15	9	4	1	0	0
-27.5°	22	14	8	4	1	0	0
-30°	21	13	8	4	1	0	0
-32.5°	19	12	7	4	1	0	0
-35°	18	11	7	3	1	0	0
-37.5°	17	11	6	3	1	0	0
-40°	16	10	6	3	1	0	0
-42.5°	14	9	5	2	1	0	0
-45°	13	8	5	2	1	0	0
-47.5°	11	7	4	1	1	0	0
-50°	10	6	4	1	1	0	0
-52.5°	9	6	3	1	0	0	0
-55°	8	5	3	1	0	0	0
-57.5°	6	4	2	1	0	0	0
-60°	5	3	1	1	0	0	0
-62.5°	4	2	1	1	0	0	0
-65°	3	2	1	1	0	0	0
-67.5°	2	1	1	0	0	0	0
-70°	1	1	1	0	0	0	0
-72.5°	1	1	0	0	0	0	0
-75°	1	1	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)