

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: P731762

Luminaire Tested: **NHRS50UBZ730-VS_25**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731762
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ730-VS_25
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 3000K WITH VISOR @ 25% output
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

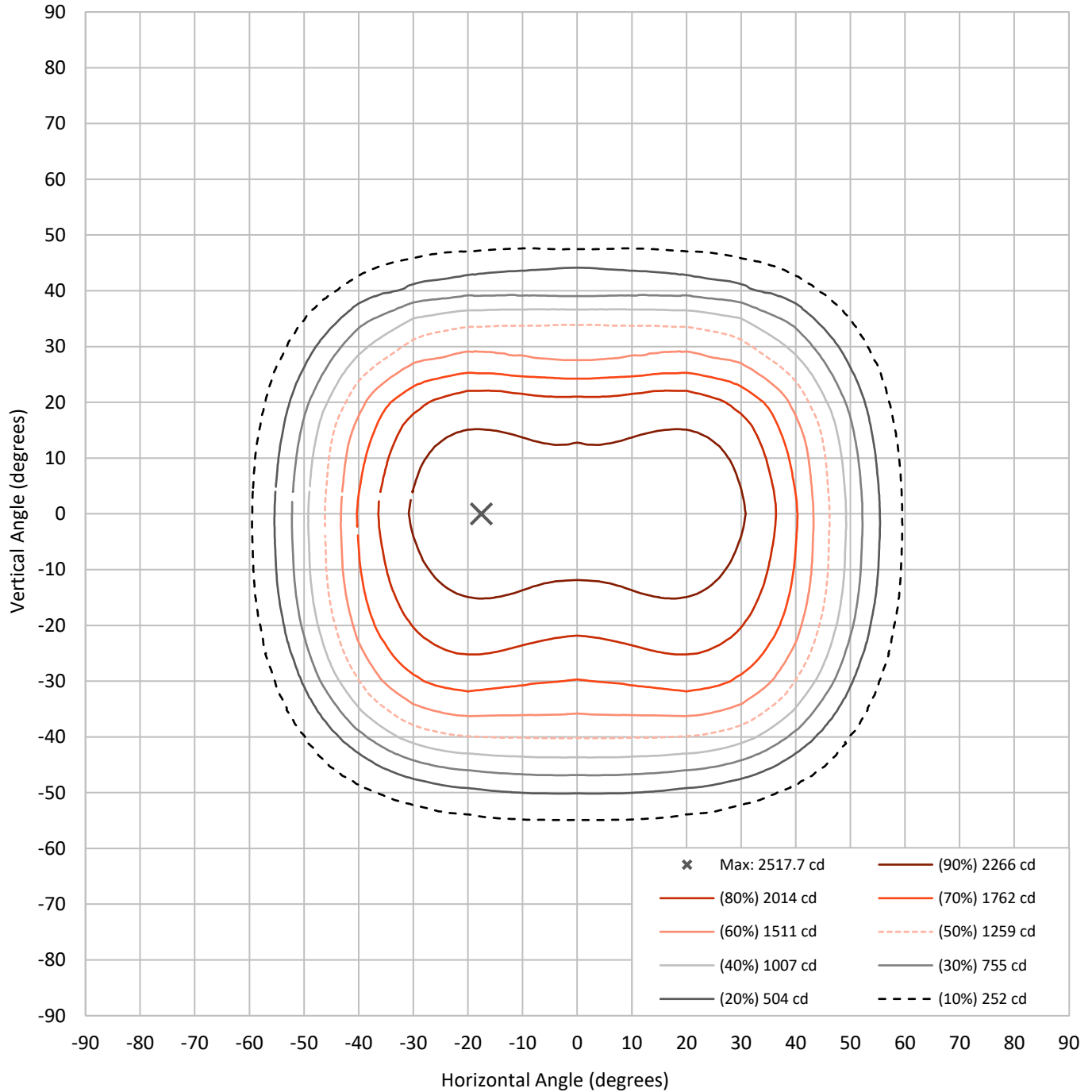
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	4245.7 lumens	Max Intensity:	2517.7 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	114.4 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:	3338.3 lumens	Field Lumens:	4106.9 lumens
Beam Efficiency:	78.6%	Field Efficiency:	96.7%
Input Watts (W):	37.1		
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		



REPORT NUMBER: P731762
CATALOG NUMBER: NHRS50UBZ730-VS_25

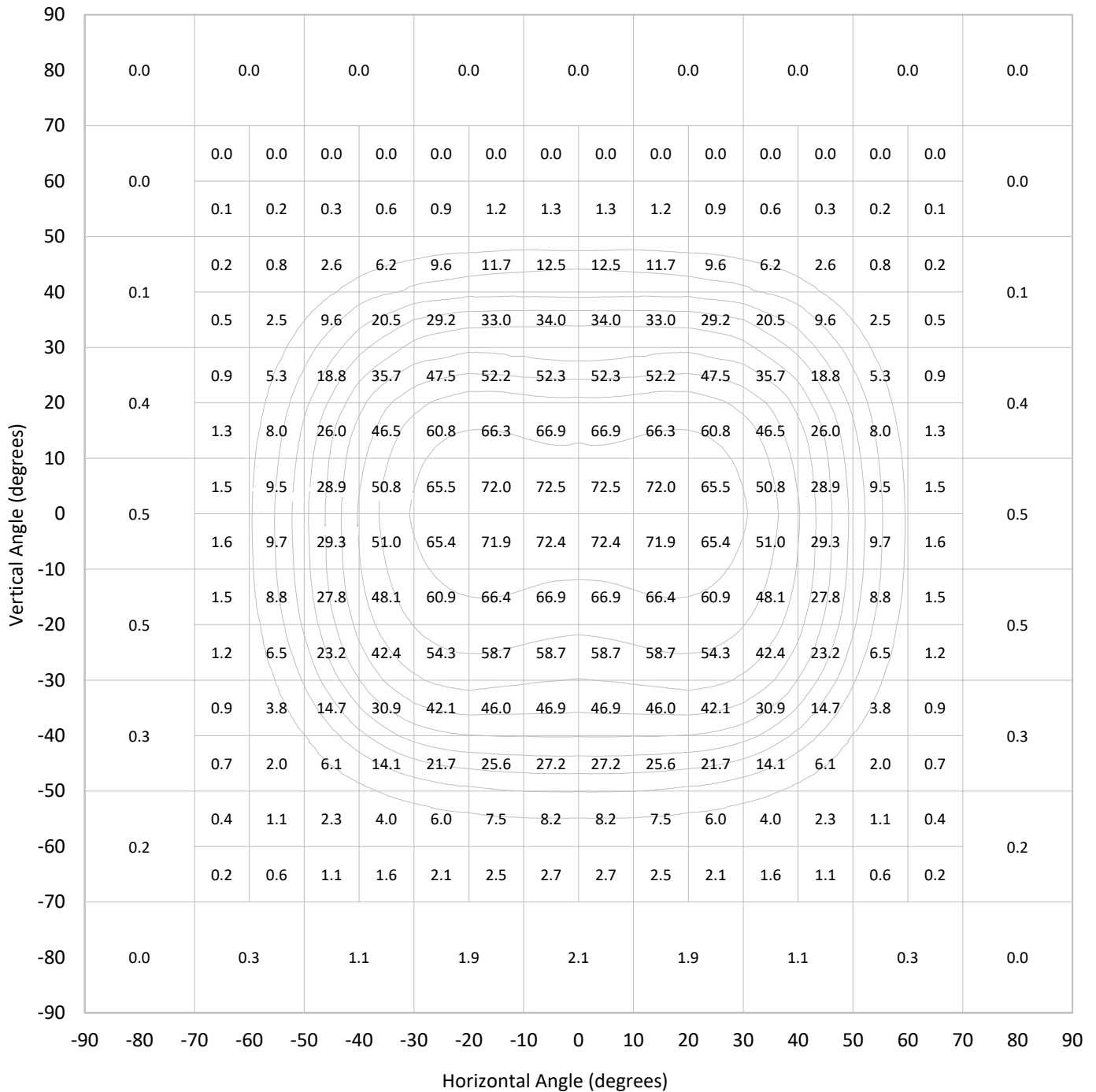
Iso-Candela Plot





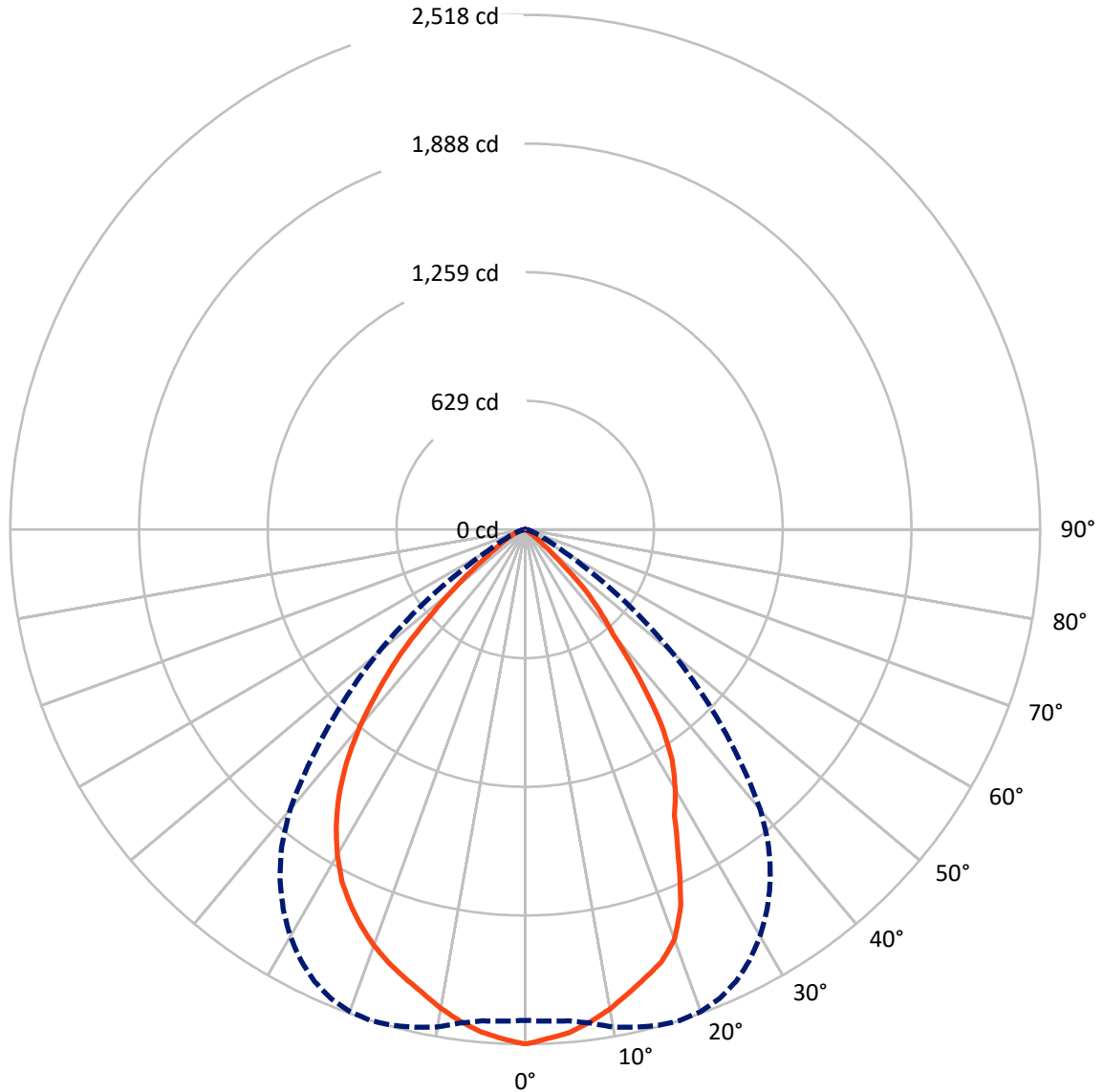
REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

Lumen Table



REPORT NUMBER: P731762
CATALOG NUMBER: NHRS50UBZ730-VS_25

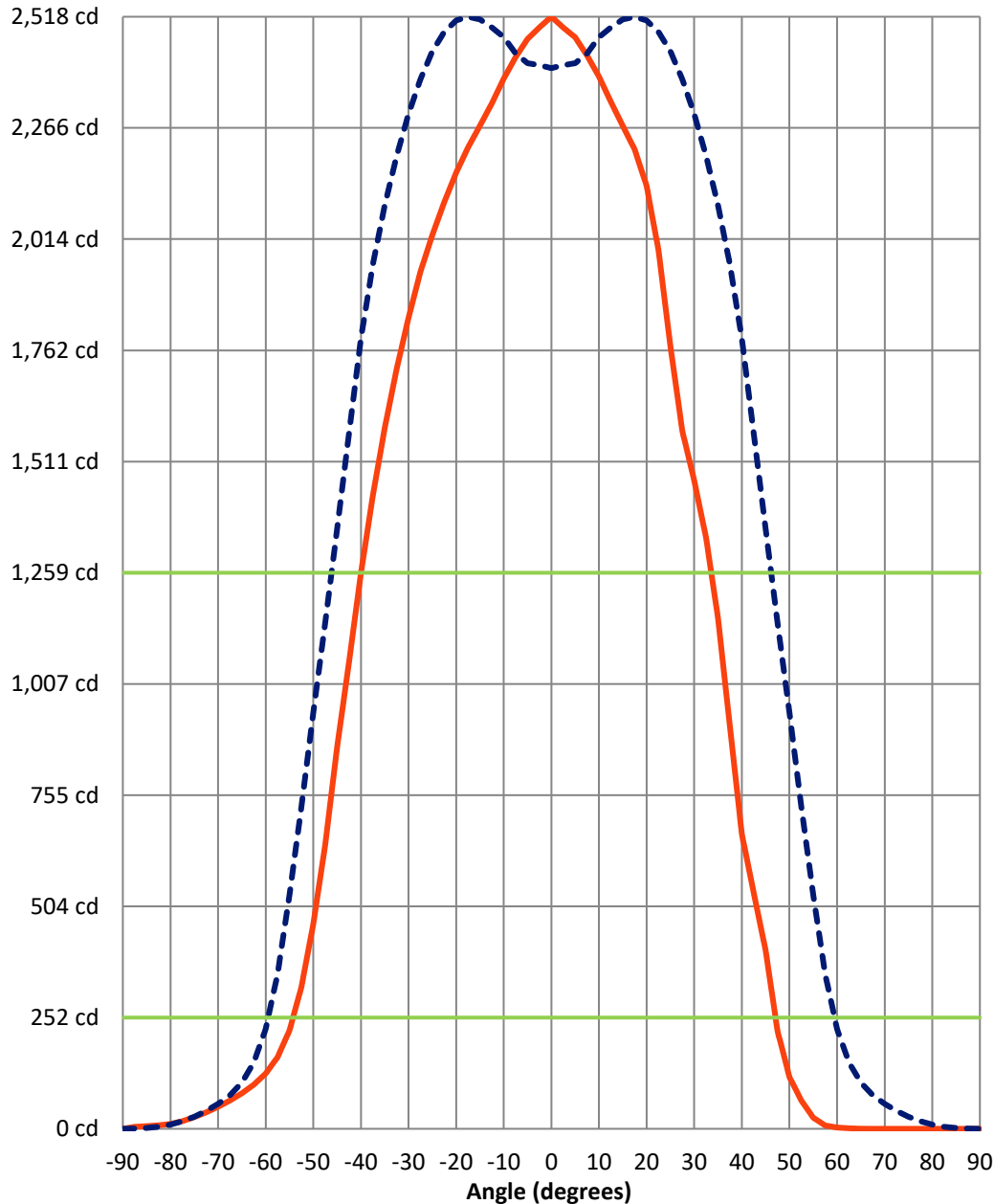
Luminous Intensity Polar Plot



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

REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

Luminous Intensity Plot



Beam:
 H Angle: 92.3°
 V Angle: 73.6°
 Lumens: 3338.3
 Efficiency: 78.6%

Field:
 H Angle: 119°
 V Angle: 101.3°
 Lumens: 4106.9
 Efficiency: 96.7%

Spill:
 Lumens: 138.8
 Efficiency: 3.3%

— Vertical Distribution through -17.5-Deg

- - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

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	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	1	1	0	0	1	1	1
62.5°	0	0	0	0	1	1	1	1	1	1	1
60°	0	0	0	1	1	1	1	1	1	1	1
57.5°	0	0	0	1	1	1	1	1	2	2	3
55°	0	0	0	1	1	1	2	2	2	3	4
52.5°	0	0	0	1	1	1	2	3	3	5	6
50°	0	0	1	1	1	2	3	4	4	7	9
47.5°	0	0	1	1	2	3	4	5	6	9	12
45°	0	0	1	1	2	3	5	6	9	12	16
42.5°	0	0	1	1	2	4	6	8	11	16	21
40°	0	0	1	1	2	4	7	10	14	19	27
37.5°	0	0	1	2	3	5	8	12	17	23	33
35°	0	0	1	2	3	6	9	14	20	29	39
32.5°	0	0	1	2	4	7	11	16	24	33	46
30°	0	0	1	2	4	8	12	18	27	38	52
27.5°	0	0	1	3	5	9	14	21	31	43	58
25°	0	0	1	3	6	10	16	24	34	47	63
22.5°	0	0	1	3	6	11	17	27	38	52	70
20°	0	1	1	3	6	12	19	29	42	57	77
17.5°	0	1	1	3	7	13	20	31	45	61	83
15°	0	1	2	4	7	13	22	33	48	65	88
12.5°	0	1	2	4	8	14	23	35	50	68	93
10°	0	1	2	4	8	15	24	37	52	71	97
7.5°	0	1	2	4	9	16	25	38	53	73	99
5°	0	1	2	4	9	16	26	39	55	75	102
2.5°	0	1	2	4	9	17	27	40	56	76	104
0°	0	1	2	5	10	17	27	41	57	76	105
-2.5°	0	1	2	5	10	18	28	41	57	77	105
-5°	0	1	2	5	10	18	28	41	57	77	105
-7.5°	0	1	2	5	10	18	28	41	57	76	104
-10°	0	1	2	5	10	18	28	41	56	76	103
-12.5°	0	1	2	5	10	18	28	40	56	75	101
-15°	0	1	2	5	10	18	27	40	55	73	99
-17.5°	0	1	2	5	10	18	27	39	54	72	96
-20°	0	1	2	5	10	18	27	38	52	70	93



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	1	2	5	10	17	26	37	51	67	89
-25°	0	1	2	5	10	17	25	36	49	65	84
-27.5°	0	1	2	5	9	16	24	34	47	62	80
-30°	0	1	2	5	9	15	23	32	45	59	77
-32.5°	0	1	2	4	9	14	22	31	42	56	72
-35°	0	1	2	4	8	14	21	30	40	53	67
-37.5°	0	1	2	4	8	13	20	28	38	49	63
-40°	0	1	2	4	7	12	18	26	35	46	58
-42.5°	0	1	2	3	7	11	17	24	32	43	54
-45°	0	1	1	3	6	11	16	22	30	39	49
-47.5°	0	1	1	3	6	10	14	20	27	35	45
-50°	0	1	1	3	5	9	13	19	25	32	40
-52.5°	0	1	1	2	5	8	12	17	22	28	36
-55°	0	1	1	2	4	7	11	15	20	25	32
-57.5°	0	1	1	2	4	6	9	13	17	22	27
-60°	0	0	1	2	3	6	8	11	15	19	24
-62.5°	0	0	1	2	3	5	7	10	13	16	20
-65°	0	0	1	1	3	4	6	8	11	13	16
-67.5°	0	0	1	1	2	3	5	7	9	11	14
-70°	0	0	1	1	2	3	4	6	7	9	11
-72.5°	0	0	1	1	1	2	3	4	6	7	8
-75°	0	0	1	1	1	2	3	3	4	5	6
-77.5°	0	0	1	1	1	1	2	3	3	4	4
-80°	0	0	0	1	1	1	1	2	2	3	3
-82.5°	0	0	0	1	1	1	1	1	1	2	2
-85°	0	0	0	0	1	1	1	1	1	1	1
-87.5°	0	0	0	0	0	0	0	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

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	0	0	0	0	0	0	0	0	0	0
65°	0	0	1	1	0	0	1	0	0	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	1	1	2	2	2	2	2	3	3	2	3
57.5°	2	3	4	4	5	4	5	6	6	6	7
55°	4	5	6	8	8	8	10	12	13	14	15
52.5°	7	8	11	13	15	16	18	22	27	28	30
50°	11	13	16	20	23	27	32	40	48	53	59
47.5°	16	19	23	28	34	43	52	68	80	99	115
45°	21	26	31	39	50	64	85	104	133	161	205
42.5°	28	34	42	52	71	95	123	160	200	257	312
40°	35	43	55	72	97	134	179	227	295	373	443
37.5°	42	54	69	93	134	184	243	324	413	517	586
35°	50	66	88	120	173	243	331	428	538	663	751
32.5°	60	78	106	152	221	311	427	539	667	801	910
30°	70	93	127	183	273	391	522	646	794	930	1041
27.5°	78	109	154	226	329	466	607	759	917	1061	1178
25°	86	122	180	271	395	542	695	863	1040	1194	1325
22.5°	96	134	200	316	456	617	786	966	1150	1327	1472
20°	106	151	227	352	510	690	870	1063	1251	1427	1593
17.5°	115	167	256	390	558	753	948	1161	1342	1516	1673
15°	123	181	280	422	601	800	1007	1225	1420	1589	1741
12.5°	130	194	300	450	638	841	1053	1266	1467	1643	1796
10°	137	204	317	472	668	873	1087	1297	1500	1681	1845
7.5°	141	212	329	489	691	898	1112	1318	1527	1716	1886
5°	145	219	340	507	710	918	1128	1328	1546	1744	1920
2.5°	149	224	349	523	726	938	1145	1352	1569	1776	1948
0°	150	226	351	529	729	942	1146	1358	1574	1789	1956
-2.5°	151	227	353	532	733	944	1151	1360	1581	1785	1951
-5°	150	225	349	523	723	931	1140	1344	1568	1766	1931
-7.5°	148	221	343	513	714	924	1137	1344	1562	1757	1915
-10°	145	217	336	505	705	915	1127	1336	1546	1739	1895
-12.5°	142	212	326	490	688	899	1110	1318	1523	1715	1871
-15°	138	204	311	468	664	874	1084	1291	1492	1682	1839
-17.5°	133	194	293	439	632	841	1050	1261	1452	1638	1793
-20°	127	181	270	403	592	797	1003	1205	1401	1587	1746



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	119	165	248	373	544	742	948	1149	1343	1531	1683
-25°	112	155	229	337	490	677	883	1083	1274	1448	1601
-27.5°	106	145	205	297	428	605	806	1006	1184	1357	1515
-30°	100	132	179	256	376	533	716	905	1079	1250	1412
-32.5°	92	119	160	225	321	454	613	788	961	1127	1296
-35°	85	109	143	192	267	380	514	662	833	994	1136
-37.5°	79	99	126	165	226	307	419	546	691	851	971
-40°	73	89	113	144	185	245	333	435	556	678	808
-42.5°	67	82	100	123	156	200	255	343	428	524	627
-45°	61	74	88	108	131	161	206	255	323	388	471
-47.5°	55	67	80	93	111	134	160	199	233	286	336
-50°	49	60	71	82	95	111	131	152	179	205	239
-52.5°	44	53	62	72	82	94	107	122	138	154	175
-55°	38	47	54	63	71	80	89	100	109	122	133
-57.5°	34	40	47	54	61	68	76	83	91	98	106
-60°	29	34	40	46	52	59	64	71	77	82	88
-62.5°	24	29	34	39	44	49	54	59	65	69	73
-65°	20	24	28	32	37	41	45	49	53	57	60
-67.5°	16	19	22	26	29	32	36	39	42	45	48
-70°	13	15	17	20	22	25	28	30	32	35	37
-72.5°	10	11	13	15	17	19	21	22	24	26	28
-75°	7	8	10	11	12	13	14	16	17	18	20
-77.5°	5	6	7	7	8	9	10	11	11	12	12
-80°	4	4	5	5	6	6	6	7	7	7	8
-82.5°	3	3	3	3	4	4	4	5	5	6	6
-85°	2	2	2	3	3	3	3	4	4	4	4
-87.5°	1	1	1	1	1	2	2	2	2	2	3
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

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°	0	0	0	0	0	0	0	0	0	0	0
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	3	3	2	3	3	3	3	3	3	3	3
57.5°	7	6	6	7	7	6	6	8	7	6	6
55°	16	18	16	20	22	22	21	25	27	27	27
52.5°	33	42	44	46	52	56	59	64	67	70	74
50°	75	85	89	82	105	116	108	117	126	122	120
47.5°	144	158	173	190	209	221	221	222	237	246	252
45°	239	266	292	324	348	359	375	403	409	420	430
42.5°	350	380	418	460	474	499	521	534	552	560	563
40°	479	503	582	620	622	637	680	668	673	692	673
37.5°	639	710	789	826	848	889	906	911	911	913	914
35°	823	914	1025	1056	1093	1133	1153	1155	1173	1177	1177
32.5°	989	1090	1186	1244	1281	1307	1339	1337	1339	1343	1341
30°	1130	1243	1333	1387	1406	1440	1465	1467	1460	1451	1445
27.5°	1286	1391	1481	1518	1531	1572	1599	1580	1585	1547	1548
25°	1443	1549	1630	1680	1710	1758	1781	1772	1773	1741	1722
22.5°	1591	1693	1785	1863	1908	1953	1989	1989	1996	1973	1959
20°	1728	1831	1921	2008	2068	2106	2134	2135	2132	2112	2097
17.5°	1819	1944	2034	2112	2170	2198	2211	2217	2205	2191	2175
15°	1887	2016	2119	2183	2227	2256	2270	2271	2266	2253	2236
12.5°	1945	2074	2170	2234	2278	2306	2320	2325	2322	2311	2294
10°	1994	2119	2208	2273	2321	2354	2373	2382	2377	2364	2349
7.5°	2033	2148	2238	2308	2362	2398	2419	2430	2428	2415	2400
5°	2062	2169	2261	2334	2391	2432	2458	2471	2467	2456	2441
2.5°	2085	2188	2284	2356	2416	2457	2482	2493	2489	2475	2458
0°	2090	2202	2298	2376	2439	2483	2509	2518	2512	2493	2472
-2.5°	2081	2188	2283	2357	2419	2459	2483	2494	2488	2472	2454
-5°	2059	2164	2255	2330	2389	2430	2455	2467	2464	2452	2437
-7.5°	2039	2140	2227	2299	2355	2393	2415	2426	2427	2411	2396
-10°	2014	2111	2193	2260	2312	2348	2369	2378	2371	2359	2346
-12.5°	1986	2078	2156	2220	2267	2299	2316	2322	2319	2310	2292
-15°	1952	2042	2115	2174	2220	2249	2264	2271	2268	2256	2238
-17.5°	1911	2002	2070	2127	2174	2201	2215	2222	2213	2198	2183
-20°	1866	1958	2021	2076	2119	2147	2163	2165	2155	2138	2118



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1800	1895	1970	2020	2057	2084	2099	2098	2090	2070	2047
-25°	1726	1829	1903	1951	1990	2017	2023	2023	2010	1990	1971
-27.5°	1640	1740	1816	1872	1913	1931	1939	1940	1922	1900	1885
-30°	1547	1635	1712	1778	1813	1832	1842	1836	1821	1806	1794
-32.5°	1414	1517	1597	1658	1695	1716	1734	1720	1705	1698	1691
-35°	1266	1371	1467	1514	1553	1580	1592	1586	1575	1578	1572
-37.5°	1094	1207	1290	1349	1389	1421	1433	1433	1433	1435	1432
-40°	916	1024	1098	1160	1204	1235	1250	1257	1268	1272	1268
-42.5°	731	821	895	955	1003	1034	1050	1057	1078	1087	1088
-45°	552	626	686	744	788	818	839	864	875	885	893
-47.5°	397	448	500	542	580	611	625	643	668	681	690
-50°	275	308	347	373	409	433	443	464	484	496	506
-52.5°	194	219	236	253	280	297	304	321	334	341	349
-55°	146	160	168	183	196	204	210	223	230	231	236
-57.5°	115	122	129	139	145	149	155	162	167	169	171
-60°	93	98	103	109	113	116	121	125	128	129	131
-62.5°	76	80	84	88	90	93	97	100	102	104	105
-65°	63	66	68	71	73	76	78	80	82	84	85
-67.5°	51	53	55	57	59	61	62	64	65	67	67
-70°	39	41	42	44	45	47	48	50	51	52	52
-72.5°	29	30	32	33	34	35	36	37	38	38	39
-75°	21	22	22	23	24	25	26	27	27	27	27
-77.5°	13	14	15	16	16	16	17	17	17	18	18
-80°	9	9	10	10	10	11	11	11	11	11	11
-82.5°	6	6	6	7	7	7	8	8	8	8	8
-85°	4	5	5	5	5	6	6	6	6	6	6
-87.5°	3	3	3	4	4	4	4	5	5	5	5
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_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°	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	0	0	0	0
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	6	6	6	6	6	6	6	6	6	7	8
55°	25	21	19	18	19	21	25	27	27	27	25
52.5°	77	80	83	83	83	80	77	74	70	67	64
50°	121	120	122	125	122	120	121	120	122	126	117
47.5°	250	236	229	227	229	236	250	252	246	237	222
45°	441	450	464	470	464	450	441	430	420	409	403
42.5°	570	571	576	579	576	571	570	563	560	552	534
40°	671	667	664	664	664	667	671	673	692	673	668
37.5°	924	914	900	901	900	914	924	914	913	911	911
35°	1182	1188	1199	1195	1199	1188	1182	1177	1177	1173	1155
32.5°	1338	1338	1338	1337	1338	1338	1338	1341	1343	1339	1337
30°	1433	1427	1417	1421	1417	1427	1433	1445	1451	1460	1467
27.5°	1526	1513	1498	1500	1498	1513	1526	1548	1547	1585	1580
25°	1716	1703	1679	1683	1679	1703	1716	1722	1741	1773	1772
22.5°	1940	1938	1940	1940	1940	1938	1940	1959	1973	1996	1989
20°	2079	2064	2059	2065	2059	2064	2079	2097	2112	2132	2135
17.5°	2154	2144	2142	2146	2142	2144	2154	2175	2191	2205	2217
15°	2218	2209	2207	2211	2207	2209	2218	2236	2253	2266	2271
12.5°	2277	2264	2262	2274	2262	2264	2277	2294	2311	2322	2325
10°	2333	2315	2312	2324	2312	2315	2333	2349	2364	2377	2382
7.5°	2382	2362	2356	2373	2356	2362	2382	2400	2415	2428	2430
5°	2419	2398	2380	2404	2380	2398	2419	2441	2456	2467	2471
2.5°	2432	2417	2404	2412	2404	2417	2432	2458	2475	2489	2493
0°	2435	2413	2408	2401	2408	2413	2435	2472	2493	2512	2518
-2.5°	2431	2415	2405	2399	2405	2415	2431	2454	2472	2488	2494
-5°	2413	2397	2379	2387	2379	2397	2413	2437	2452	2464	2467
-7.5°	2381	2356	2349	2357	2349	2356	2381	2396	2411	2427	2426
-10°	2326	2308	2304	2308	2304	2308	2326	2346	2359	2371	2378
-12.5°	2274	2261	2256	2252	2256	2261	2274	2292	2310	2319	2322
-15°	2221	2209	2203	2201	2203	2209	2221	2238	2256	2268	2271
-17.5°	2163	2150	2141	2138	2141	2150	2163	2183	2198	2213	2222
-20°	2099	2082	2073	2066	2073	2082	2099	2118	2138	2155	2165



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2030	2013	2002	1996	2002	2013	2030	2047	2070	2090	2098
-25°	1953	1939	1925	1923	1925	1939	1953	1971	1990	2010	2023
-27.5°	1868	1859	1845	1838	1845	1859	1868	1885	1900	1922	1940
-30°	1776	1771	1762	1753	1762	1771	1776	1794	1806	1821	1836
-32.5°	1680	1676	1669	1664	1669	1676	1680	1691	1698	1705	1720
-35°	1568	1566	1561	1551	1561	1566	1568	1572	1578	1575	1586
-37.5°	1434	1434	1432	1425	1432	1434	1434	1432	1435	1433	1433
-40°	1275	1276	1277	1271	1277	1276	1275	1268	1272	1268	1257
-42.5°	1098	1099	1100	1093	1100	1099	1098	1088	1087	1078	1057
-45°	903	904	907	905	907	904	903	893	885	875	864
-47.5°	700	703	706	700	706	703	700	690	681	668	643
-50°	513	513	516	512	516	513	513	506	496	484	464
-52.5°	353	352	354	353	354	352	353	349	341	334	321
-55°	238	238	239	237	239	238	238	236	231	230	223
-57.5°	173	172	173	173	173	172	173	171	169	167	162
-60°	133	133	134	133	134	133	133	131	129	128	125
-62.5°	106	106	106	106	106	106	106	105	104	102	100
-65°	85	86	86	86	86	86	85	85	84	82	80
-67.5°	68	69	69	68	69	69	68	67	67	65	64
-70°	52	53	53	52	53	53	52	52	52	51	50
-72.5°	39	39	39	39	39	39	39	39	38	38	37
-75°	27	27	27	27	27	27	27	27	27	27	27
-77.5°	18	18	17	17	17	18	18	18	18	17	17
-80°	11	11	11	11	11	11	11	11	11	11	11
-82.5°	8	8	8	8	8	8	8	8	8	8	8
-85°	6	6	6	6	6	6	6	6	6	6	6
-87.5°	5	5	5	5	5	5	5	5	5	5	5
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_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°	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	0	0
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	3	3	3	3	2	3	3	3	2	3	3
57.5°	6	6	7	7	6	6	7	7	6	6	6
55°	21	22	22	20	16	18	16	15	14	13	12
52.5°	59	56	52	46	44	42	33	30	28	27	22
50°	108	116	105	82	89	85	75	59	53	48	40
47.5°	221	221	209	190	173	158	144	115	99	80	68
45°	375	359	348	324	292	266	239	205	161	133	104
42.5°	521	499	474	460	418	380	350	312	257	200	160
40°	680	637	622	620	582	503	479	443	373	295	227
37.5°	906	889	848	826	789	710	639	586	517	413	324
35°	1153	1133	1093	1056	1025	914	823	751	663	538	428
32.5°	1339	1307	1281	1244	1186	1090	989	910	801	667	539
30°	1465	1440	1406	1387	1333	1243	1130	1041	930	794	646
27.5°	1599	1572	1531	1518	1481	1391	1286	1178	1061	917	759
25°	1781	1758	1710	1680	1630	1549	1443	1325	1194	1040	863
22.5°	1989	1953	1908	1863	1785	1693	1591	1472	1327	1150	966
20°	2134	2106	2068	2008	1921	1831	1728	1593	1427	1251	1063
17.5°	2211	2198	2170	2112	2034	1944	1819	1673	1516	1342	1161
15°	2270	2256	2227	2183	2119	2016	1887	1741	1589	1420	1225
12.5°	2320	2306	2278	2234	2170	2074	1945	1796	1643	1467	1266
10°	2373	2354	2321	2273	2208	2119	1994	1845	1681	1500	1297
7.5°	2419	2398	2362	2308	2238	2148	2033	1886	1716	1527	1318
5°	2458	2432	2391	2334	2261	2169	2062	1920	1744	1546	1328
2.5°	2482	2457	2416	2356	2284	2188	2085	1948	1776	1569	1352
0°	2509	2483	2439	2376	2298	2202	2090	1956	1789	1574	1358
-2.5°	2483	2459	2419	2357	2283	2188	2081	1951	1785	1581	1360
-5°	2455	2430	2389	2330	2255	2164	2059	1931	1766	1568	1344
-7.5°	2415	2393	2355	2299	2227	2140	2039	1915	1757	1562	1344
-10°	2369	2348	2312	2260	2193	2111	2014	1895	1739	1546	1336
-12.5°	2316	2299	2267	2220	2156	2078	1986	1871	1715	1523	1318
-15°	2264	2249	2220	2174	2115	2042	1952	1839	1682	1492	1291
-17.5°	2215	2201	2174	2127	2070	2002	1911	1793	1638	1452	1261
-20°	2163	2147	2119	2076	2021	1958	1866	1746	1587	1401	1205



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2099	2084	2057	2020	1970	1895	1800	1683	1531	1343	1149
-25°	2023	2017	1990	1951	1903	1829	1726	1601	1448	1274	1083
-27.5°	1939	1931	1913	1872	1816	1740	1640	1515	1357	1184	1006
-30°	1842	1832	1813	1778	1712	1635	1547	1412	1250	1079	905
-32.5°	1734	1716	1695	1658	1597	1517	1414	1296	1127	961	788
-35°	1592	1580	1553	1514	1467	1371	1266	1136	994	833	662
-37.5°	1433	1421	1389	1349	1290	1207	1094	971	851	691	546
-40°	1250	1235	1204	1160	1098	1024	916	808	678	556	435
-42.5°	1050	1034	1003	955	895	821	731	627	524	428	343
-45°	839	818	788	744	686	626	552	471	388	323	255
-47.5°	625	611	580	542	500	448	397	336	286	233	199
-50°	443	433	409	373	347	308	275	239	205	179	152
-52.5°	304	297	280	253	236	219	194	175	154	138	122
-55°	210	204	196	183	168	160	146	133	122	109	100
-57.5°	155	149	145	139	129	122	115	106	98	91	83
-60°	121	116	113	109	103	98	93	88	82	77	71
-62.5°	97	93	90	88	84	80	76	73	69	65	59
-65°	78	76	73	71	68	66	63	60	57	53	49
-67.5°	62	61	59	57	55	53	51	48	45	42	39
-70°	48	47	45	44	42	41	39	37	35	32	30
-72.5°	36	35	34	33	32	30	29	28	26	24	22
-75°	26	25	24	23	22	22	21	20	18	17	16
-77.5°	17	16	16	16	15	14	13	12	12	11	11
-80°	11	11	10	10	10	9	9	8	7	7	7
-82.5°	8	7	7	7	6	6	6	6	6	5	5
-85°	6	6	5	5	5	5	4	4	4	4	4
-87.5°	4	4	4	4	3	3	3	3	2	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_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°	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	0	0	1	1	0	0	1	1	1	0
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	2	2	2	2	2	1	1	1	1	1	1
57.5°	5	4	5	4	4	3	2	3	2	2	1
55°	10	8	8	8	6	5	4	4	3	2	2
52.5°	18	16	15	13	11	8	7	6	5	3	3
50°	32	27	23	20	16	13	11	9	7	4	4
47.5°	52	43	34	28	23	19	16	12	9	6	5
45°	85	64	50	39	31	26	21	16	12	9	6
42.5°	123	95	71	52	42	34	28	21	16	11	8
40°	179	134	97	72	55	43	35	27	19	14	10
37.5°	243	184	134	93	69	54	42	33	23	17	12
35°	331	243	173	120	88	66	50	39	29	20	14
32.5°	427	311	221	152	106	78	60	46	33	24	16
30°	522	391	273	183	127	93	70	52	38	27	18
27.5°	607	466	329	226	154	109	78	58	43	31	21
25°	695	542	395	271	180	122	86	63	47	34	24
22.5°	786	617	456	316	200	134	96	70	52	38	27
20°	870	690	510	352	227	151	106	77	57	42	29
17.5°	948	753	558	390	256	167	115	83	61	45	31
15°	1007	800	601	422	280	181	123	88	65	48	33
12.5°	1053	841	638	450	300	194	130	93	68	50	35
10°	1087	873	668	472	317	204	137	97	71	52	37
7.5°	1112	898	691	489	329	212	141	99	73	53	38
5°	1128	918	710	507	340	219	145	102	75	55	39
2.5°	1145	938	726	523	349	224	149	104	76	56	40
0°	1146	942	729	529	351	226	150	105	76	57	41
-2.5°	1151	944	733	532	353	227	151	105	77	57	41
-5°	1140	931	723	523	349	225	150	105	77	57	41
-7.5°	1137	924	714	513	343	221	148	104	76	57	41
-10°	1127	915	705	505	336	217	145	103	76	56	41
-12.5°	1110	899	688	490	326	212	142	101	75	56	40
-15°	1084	874	664	468	311	204	138	99	73	55	40
-17.5°	1050	841	632	439	293	194	133	96	72	54	39
-20°	1003	797	592	403	270	181	127	93	70	52	38



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	948	742	544	373	248	165	119	89	67	51	37
-25°	883	677	490	337	229	155	112	84	65	49	36
-27.5°	806	605	428	297	205	145	106	80	62	47	34
-30°	716	533	376	256	179	132	100	77	59	45	32
-32.5°	613	454	321	225	160	119	92	72	56	42	31
-35°	514	380	267	192	143	109	85	67	53	40	30
-37.5°	419	307	226	165	126	99	79	63	49	38	28
-40°	333	245	185	144	113	89	73	58	46	35	26
-42.5°	255	200	156	123	100	82	67	54	43	32	24
-45°	206	161	131	108	88	74	61	49	39	30	22
-47.5°	160	134	111	93	80	67	55	45	35	27	20
-50°	131	111	95	82	71	60	49	40	32	25	19
-52.5°	107	94	82	72	62	53	44	36	28	22	17
-55°	89	80	71	63	54	47	38	32	25	20	15
-57.5°	76	68	61	54	47	40	34	27	22	17	13
-60°	64	59	52	46	40	34	29	24	19	15	11
-62.5°	54	49	44	39	34	29	24	20	16	13	10
-65°	45	41	37	32	28	24	20	16	13	11	8
-67.5°	36	32	29	26	22	19	16	14	11	9	7
-70°	28	25	22	20	17	15	13	11	9	7	6
-72.5°	21	19	17	15	13	11	10	8	7	6	4
-75°	14	13	12	11	10	8	7	6	5	4	3
-77.5°	10	9	8	7	7	6	5	4	4	3	3
-80°	6	6	6	5	5	4	4	3	3	2	2
-82.5°	4	4	4	3	3	3	3	2	2	1	1
-85°	3	3	3	3	2	2	2	1	1	1	1
-87.5°	2	2	1	1	1	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_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°	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0
65°	0	1	1	0	0	0	0
62.5°	1	1	1	0	0	0	0
60°	1	1	1	1	0	0	0
57.5°	1	1	1	1	0	0	0
55°	2	1	1	1	0	0	0
52.5°	2	1	1	1	0	0	0
50°	3	2	1	1	1	0	0
47.5°	4	3	2	1	1	0	0
45°	5	3	2	1	1	0	0
42.5°	6	4	2	1	1	0	0
40°	7	4	2	1	1	0	0
37.5°	8	5	3	2	1	0	0
35°	9	6	3	2	1	0	0
32.5°	11	7	4	2	1	0	0
30°	12	8	4	2	1	0	0
27.5°	14	9	5	3	1	0	0
25°	16	10	6	3	1	0	0
22.5°	17	11	6	3	1	0	0
20°	19	12	6	3	1	1	0
17.5°	20	13	7	3	1	1	0
15°	22	13	7	4	2	1	0
12.5°	23	14	8	4	2	1	0
10°	24	15	8	4	2	1	0
7.5°	25	16	9	4	2	1	0
5°	26	16	9	4	2	1	0
2.5°	27	17	9	4	2	1	0
0°	27	17	10	5	2	1	0
-2.5°	28	18	10	5	2	1	0
-5°	28	18	10	5	2	1	0
-7.5°	28	18	10	5	2	1	0
-10°	28	18	10	5	2	1	0
-12.5°	28	18	10	5	2	1	0
-15°	27	18	10	5	2	1	0
-17.5°	27	18	10	5	2	1	0
-20°	27	18	10	5	2	1	0



REPORT NUMBER: P731762
 CATALOG NUMBER: NHRS50UBZ730-VS_25

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	26	17	10	5	2	1	0
-25°	25	17	10	5	2	1	0
-27.5°	24	16	9	5	2	1	0
-30°	23	15	9	5	2	1	0
-32.5°	22	14	9	4	2	1	0
-35°	21	14	8	4	2	1	0
-37.5°	20	13	8	4	2	1	0
-40°	18	12	7	4	2	1	0
-42.5°	17	11	7	3	2	1	0
-45°	16	11	6	3	1	1	0
-47.5°	14	10	6	3	1	1	0
-50°	13	9	5	3	1	1	0
-52.5°	12	8	5	2	1	1	0
-55°	11	7	4	2	1	1	0
-57.5°	9	6	4	2	1	1	0
-60°	8	6	3	2	1	0	0
-62.5°	7	5	3	2	1	0	0
-65°	6	4	3	1	1	0	0
-67.5°	5	3	2	1	1	0	0
-70°	4	3	2	1	1	0	0
-72.5°	3	2	1	1	1	0	0
-75°	3	2	1	1	1	0	0
-77.5°	2	1	1	1	1	0	0
-80°	1	1	1	1	0	0	0
-82.5°	1	1	1	1	0	0	0
-85°	1	1	1	0	0	0	0
-87.5°	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)