

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: P731778

Luminaire Tested: **NHRS50UBZ750-VS_25**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731778
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ750-VS_25
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 5000K WITH VISOR @ 25% output
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

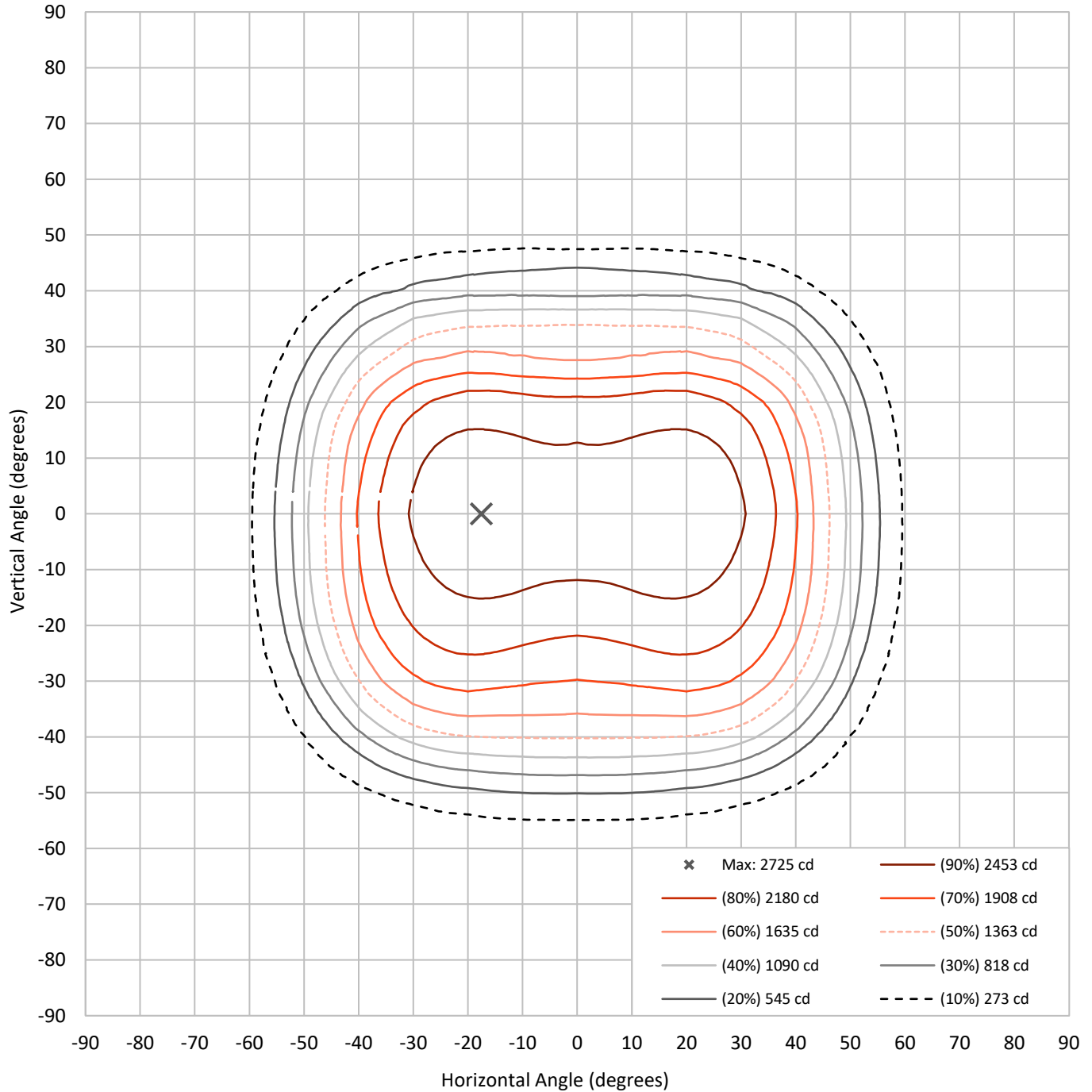
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	4595.4 lumens	Max Intensity:	2725 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	122.9 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 101.4°V
Beam Lumens:	3613.4 lumens	Field Lumens:	4445.2 lumens
Beam Efficiency:	78.6%	Field Efficiency:	96.7%
Input Watts (W):	37.4		
Input Voltage (V):	120		
Input Current (Ain):	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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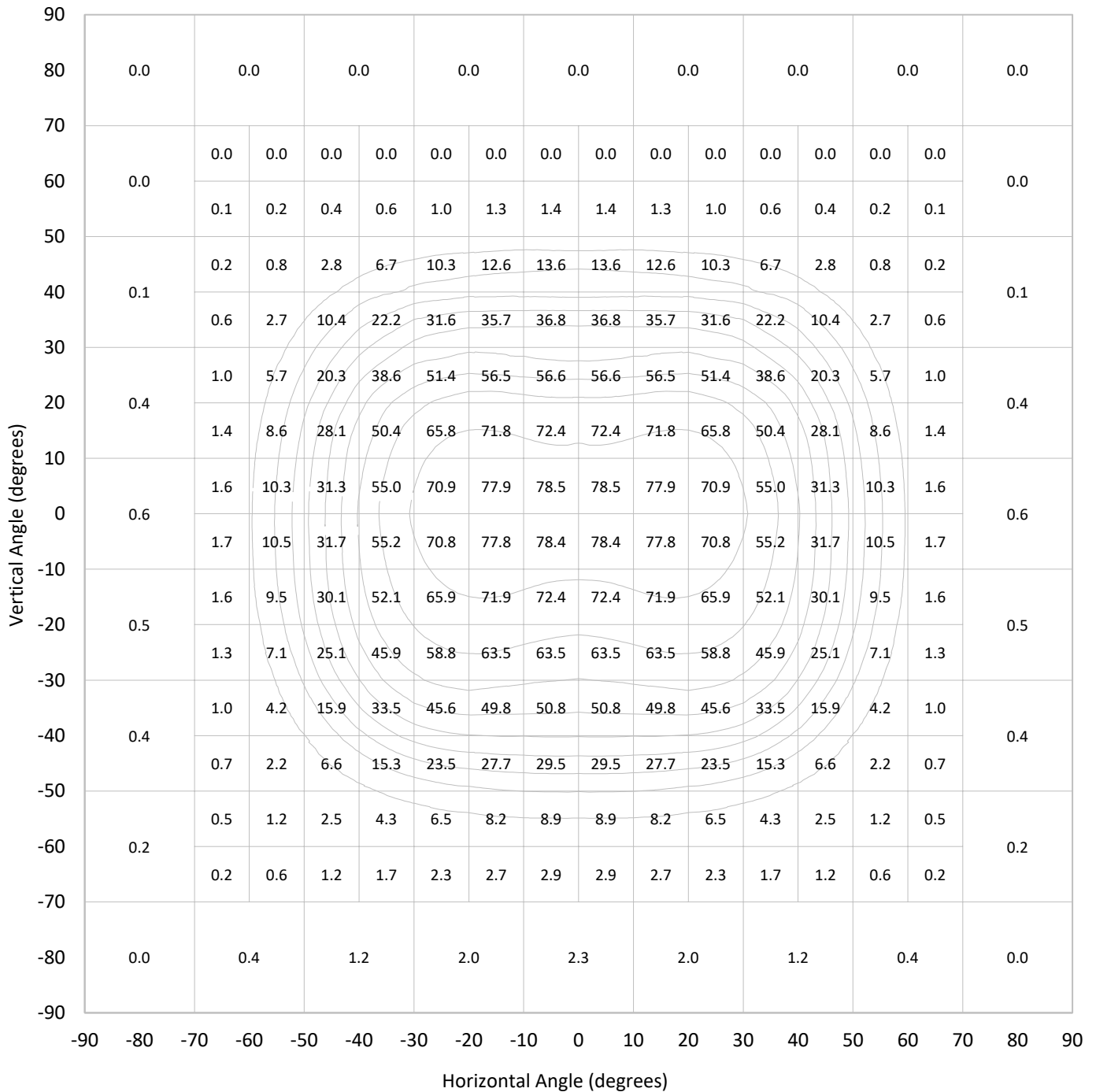
Iso-Candela Plot





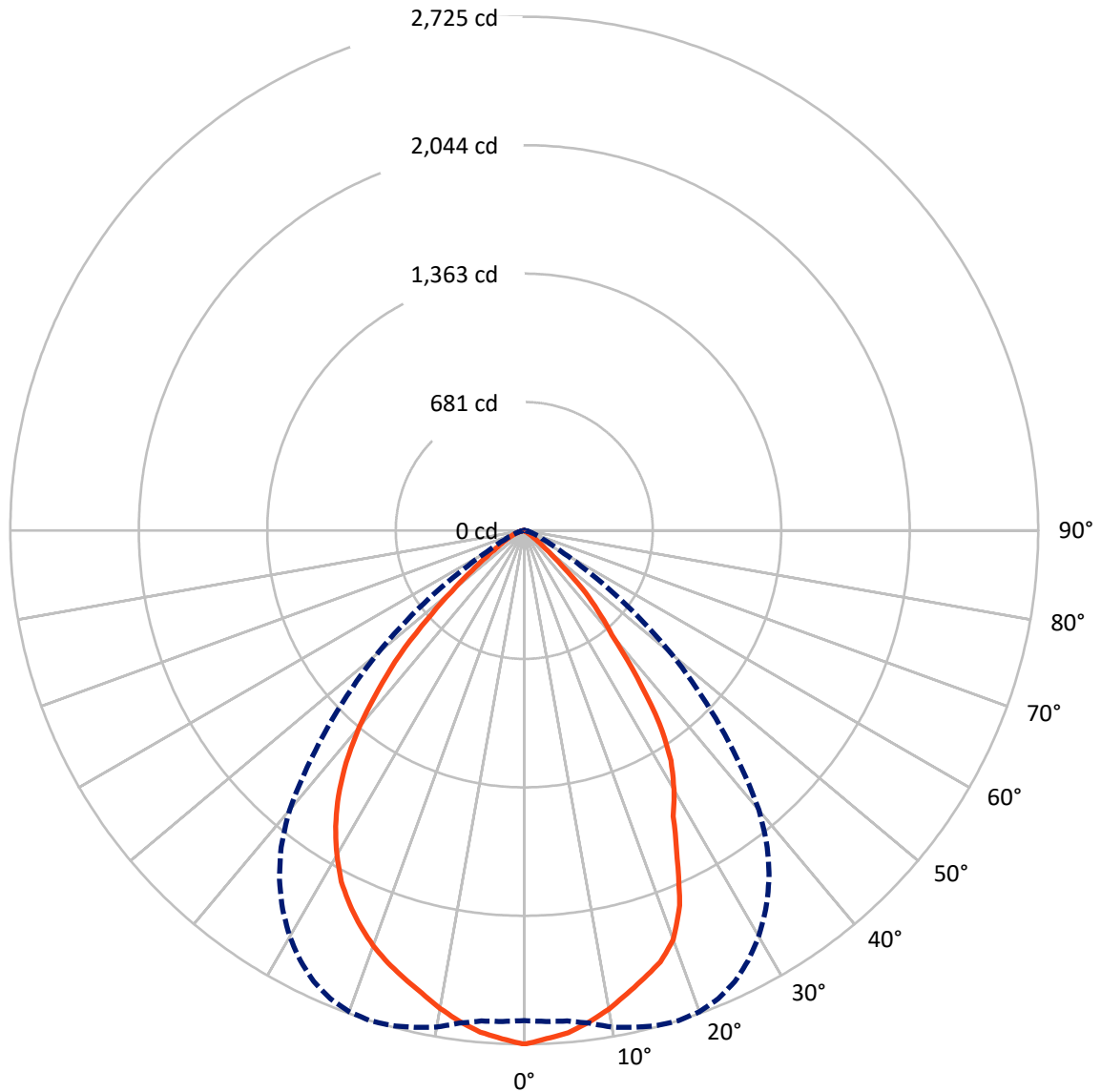
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Lumen Table



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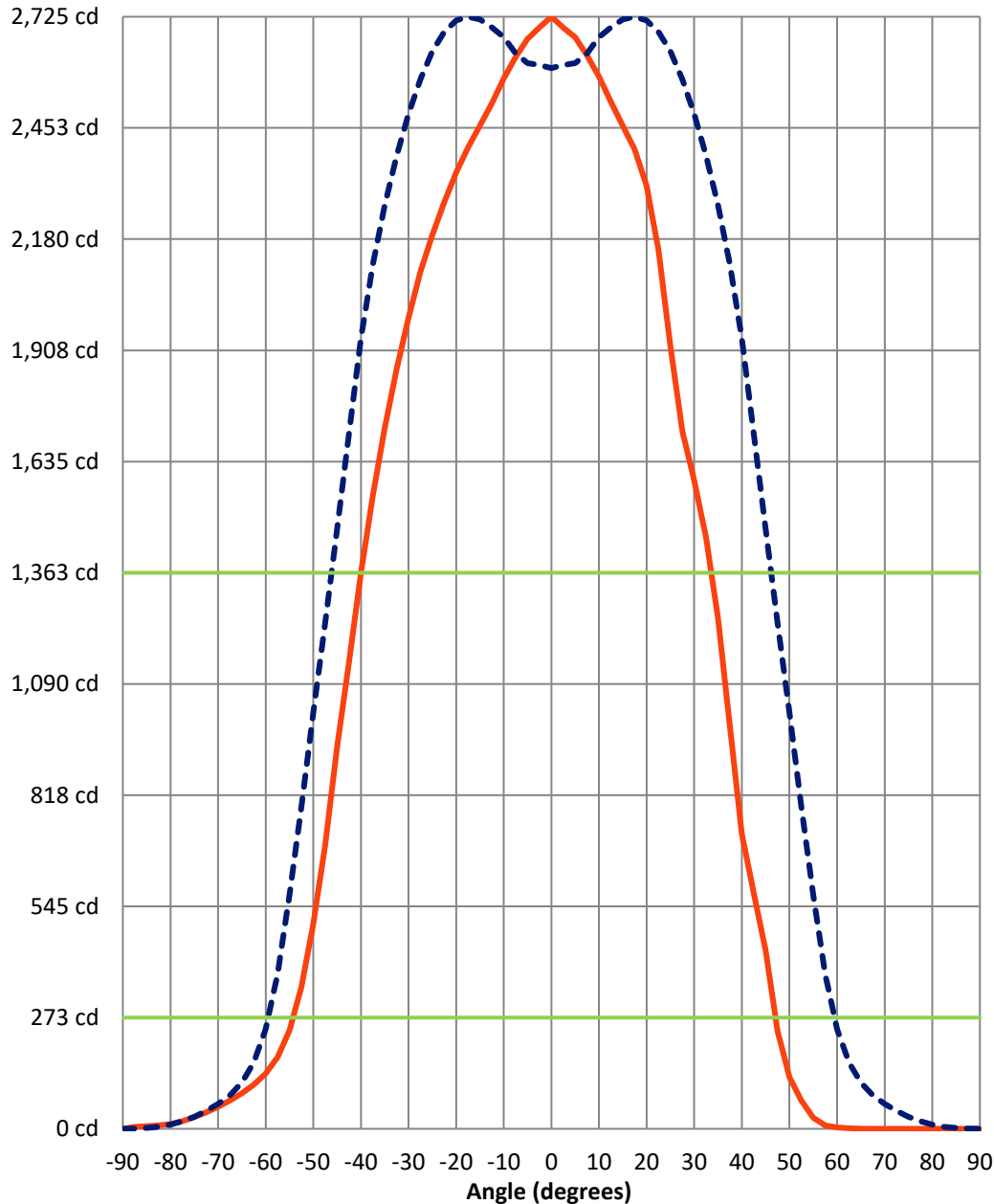
Luminous Intensity Polar Plot



— 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: 3613.4
 Efficiency: 78.6%

Field:
 H Angle: 119°
 V Angle: 101.4°
 Lumens: 4445.2
 Efficiency: 96.7%

Spill:
 Lumens: 150.2
 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	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	3	3	4
52.5°	0	0	0	1	1	1	2	3	3	5	6
50°	0	0	1	1	1	2	3	4	5	7	10
47.5°	0	0	1	1	2	3	4	5	7	10	13
45°	0	0	1	1	2	3	5	6	9	13	17
42.5°	0	0	1	1	2	4	6	8	12	17	23
40°	0	0	1	1	3	5	7	11	15	21	29
37.5°	0	0	1	2	3	6	9	13	19	26	36
35°	0	0	1	2	4	6	10	15	22	31	42
32.5°	0	0	1	2	4	7	11	17	26	36	49
30°	0	0	1	2	5	9	13	20	29	41	56
27.5°	0	0	1	3	5	10	15	23	33	46	62
25°	0	0	1	3	6	11	17	26	37	51	68
22.5°	0	0	1	3	6	12	19	29	41	57	76
20°	0	1	2	3	7	13	21	31	45	61	83
17.5°	0	1	2	4	7	14	22	34	48	66	89
15°	0	1	2	4	8	15	23	36	52	70	95
12.5°	0	1	2	4	8	15	25	38	54	74	100
10°	0	1	2	4	9	16	26	40	56	77	104
7.5°	0	1	2	4	10	17	27	41	58	79	107
5°	0	1	2	5	10	18	28	42	60	81	110
2.5°	0	1	2	5	10	18	29	43	60	82	112
0°	0	1	2	5	10	19	29	44	61	82	113
-2.5°	0	1	2	5	11	19	30	44	62	83	114
-5°	0	1	2	5	11	19	30	45	62	84	113
-7.5°	0	1	2	5	11	19	30	44	61	83	113
-10°	0	1	2	5	11	20	30	44	61	82	111
-12.5°	0	1	2	5	11	20	30	44	60	81	110
-15°	0	1	2	5	11	20	30	43	59	80	107
-17.5°	0	1	2	6	11	19	29	42	58	78	104
-20°	0	1	2	5	11	19	29	41	57	76	101



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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	2	5	11	19	28	40	55	73	96
-25°	0	1	2	5	11	18	27	39	53	70	91
-27.5°	0	1	2	5	10	17	26	37	51	67	87
-30°	0	1	2	5	10	17	25	35	48	64	83
-32.5°	0	1	2	5	10	16	24	34	46	61	78
-35°	0	1	2	5	9	15	22	32	43	57	73
-37.5°	0	1	2	4	8	14	21	30	41	53	68
-40°	0	1	2	4	8	13	20	28	38	50	63
-42.5°	0	1	2	4	7	12	19	26	35	46	58
-45°	0	1	2	3	7	11	17	24	32	42	53
-47.5°	0	1	2	3	6	11	15	22	30	38	48
-50°	0	1	1	3	6	10	14	20	27	35	43
-52.5°	0	1	1	3	5	8	13	18	24	31	39
-55°	0	1	1	3	5	8	11	16	21	27	34
-57.5°	0	1	1	2	4	7	10	14	19	24	30
-60°	0	1	1	2	3	6	9	12	16	21	26
-62.5°	0	1	1	2	3	5	8	11	14	17	22
-65°	0	0	1	2	3	4	7	9	12	15	18
-67.5°	0	0	1	1	2	4	6	7	9	12	15
-70°	0	0	1	1	2	3	4	6	8	9	12
-72.5°	0	0	1	1	2	3	4	5	6	7	9
-75°	0	0	1	1	1	2	3	4	4	6	7
-77.5°	0	0	1	1	1	2	2	3	3	4	5
-80°	0	0	1	1	1	1	1	2	3	3	3
-82.5°	0	0	0	1	1	1	1	1	2	2	2
-85°	0	0	0	0	1	1	1	1	1	1	2
-87.5°	0	0	0	0	0	0	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731778
 CATALOG NUMBER: NHRS50UBZ750-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°	3	3	4	5	5	4	6	6	7	6	7
55°	5	5	7	9	9	9	11	13	14	15	16
52.5°	8	8	11	14	16	17	20	24	29	30	32
50°	11	14	17	21	25	29	35	43	52	57	64
47.5°	17	21	25	30	37	46	56	74	86	107	124
45°	23	29	34	43	54	69	92	113	144	174	222
42.5°	30	37	46	56	77	103	133	173	216	278	337
40°	38	46	59	78	105	145	194	246	320	404	479
37.5°	46	59	74	101	145	199	263	351	447	560	635
35°	54	71	95	130	187	263	358	464	583	718	813
32.5°	65	84	115	165	239	336	462	583	722	867	985
30°	75	101	138	198	296	423	564	700	859	1007	1127
27.5°	85	118	167	244	356	504	657	822	992	1149	1275
25°	93	132	194	294	427	586	752	934	1125	1293	1435
22.5°	103	145	217	342	493	667	851	1045	1245	1436	1594
20°	114	164	246	381	552	746	942	1150	1354	1545	1724
17.5°	124	181	277	422	604	815	1026	1257	1453	1640	1811
15°	133	196	303	457	650	866	1090	1326	1537	1720	1884
12.5°	141	209	325	487	690	910	1139	1371	1588	1779	1944
10°	148	221	343	511	723	945	1177	1404	1624	1820	1997
7.5°	153	230	356	530	748	972	1203	1426	1653	1857	2042
5°	157	237	368	549	768	994	1221	1438	1673	1888	2078
2.5°	161	243	377	567	786	1015	1240	1463	1699	1922	2109
0°	163	245	379	573	789	1020	1240	1470	1704	1936	2117
-2.5°	164	246	382	575	793	1022	1246	1472	1711	1932	2111
-5°	162	243	378	566	783	1008	1234	1455	1698	1912	2090
-7.5°	160	239	371	555	773	1000	1230	1455	1690	1901	2073
-10°	157	235	363	546	763	991	1220	1446	1674	1883	2051
-12.5°	154	229	352	530	745	973	1201	1426	1649	1857	2025
-15°	150	221	337	506	719	946	1173	1397	1615	1821	1991
-17.5°	144	210	317	475	684	910	1136	1365	1571	1773	1941
-20°	137	196	292	436	641	863	1086	1304	1517	1717	1890



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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°	129	179	269	403	589	803	1026	1243	1453	1657	1821
-25°	121	168	248	365	530	733	956	1173	1379	1568	1733
-27.5°	115	157	222	321	464	655	872	1088	1281	1469	1639
-30°	108	143	194	277	407	577	776	980	1167	1353	1528
-32.5°	100	129	173	243	348	492	663	853	1040	1220	1402
-35°	92	118	155	208	288	412	556	717	902	1075	1229
-37.5°	85	108	136	178	244	332	454	591	748	921	1051
-40°	79	96	122	156	200	265	361	471	602	733	874
-42.5°	73	88	109	133	168	216	276	371	463	567	679
-45°	66	80	96	117	142	174	223	276	350	420	510
-47.5°	60	72	87	101	120	144	174	215	253	310	363
-50°	53	65	77	89	103	120	142	164	194	222	259
-52.5°	48	57	67	78	89	102	116	132	149	167	190
-55°	42	51	59	68	77	87	97	108	118	132	144
-57.5°	36	44	51	59	67	74	83	90	99	107	115
-60°	31	37	43	50	57	63	70	77	83	88	95
-62.5°	27	32	37	42	48	53	59	64	70	74	79
-65°	22	26	30	35	40	44	48	53	57	62	65
-67.5°	18	21	24	28	32	35	39	42	46	49	52
-70°	14	16	19	22	25	27	30	33	35	38	40
-72.5°	11	12	14	16	18	20	22	24	26	28	30
-75°	8	9	10	12	13	14	15	17	18	20	21
-77.5°	6	6	7	8	9	10	11	11	12	13	13
-80°	4	4	5	5	6	6	7	7	8	8	9
-82.5°	3	3	3	4	4	4	5	5	6	6	6
-85°	2	2	3	3	3	3	4	4	4	4	5
-87.5°	1	1	1	1	2	2	2	2	2	3	3
-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°	0	0	0	0	0	0	0	0	0	0	0
62.5°	1	1	1	1	1	1	1	1	1	2	2
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	8	7	6	8	8	7	7	8	8	6	7
55°	18	19	18	22	24	23	22	27	30	30	29
52.5°	36	45	48	50	56	60	64	69	73	76	80
50°	81	92	96	89	113	125	117	127	136	132	130
47.5°	155	171	187	205	226	239	239	240	257	266	272
45°	259	288	317	350	377	389	406	437	443	454	465
42.5°	379	411	452	498	513	540	563	578	597	606	609
40°	518	544	630	671	674	689	736	723	728	749	728
37.5°	692	768	854	894	918	962	981	986	986	988	989
35°	891	989	1109	1143	1184	1226	1248	1251	1270	1274	1274
32.5°	1071	1180	1284	1346	1387	1415	1450	1448	1450	1453	1451
30°	1223	1345	1442	1501	1522	1558	1585	1589	1580	1570	1564
27.5°	1392	1505	1603	1643	1657	1701	1730	1711	1716	1674	1675
25°	1562	1677	1764	1819	1851	1903	1928	1918	1919	1884	1864
22.5°	1722	1832	1932	2016	2065	2114	2153	2153	2160	2135	2121
20°	1870	1982	2079	2174	2239	2279	2309	2310	2307	2286	2270
17.5°	1969	2104	2201	2286	2349	2379	2393	2400	2387	2372	2354
15°	2042	2182	2293	2363	2410	2441	2457	2458	2452	2439	2420
12.5°	2105	2244	2349	2418	2466	2496	2512	2517	2513	2501	2483
10°	2159	2293	2390	2460	2512	2548	2569	2578	2573	2559	2543
7.5°	2201	2325	2422	2498	2557	2595	2619	2630	2628	2614	2598
5°	2232	2348	2448	2527	2589	2633	2661	2675	2670	2658	2642
2.5°	2257	2369	2472	2551	2615	2659	2687	2698	2694	2679	2660
0°	2263	2384	2487	2572	2640	2688	2716	2725	2718	2699	2675
-2.5°	2252	2368	2471	2551	2618	2661	2688	2699	2693	2676	2656
-5°	2229	2342	2441	2522	2586	2631	2657	2671	2667	2654	2638
-7.5°	2207	2316	2410	2488	2549	2590	2614	2626	2627	2610	2593
-10°	2180	2285	2374	2446	2502	2542	2564	2574	2566	2554	2539
-12.5°	2149	2249	2333	2403	2454	2488	2507	2513	2510	2501	2481
-15°	2113	2210	2290	2353	2403	2435	2451	2458	2455	2441	2422
-17.5°	2069	2166	2241	2303	2353	2382	2398	2405	2396	2380	2362
-20°	2019	2119	2188	2247	2293	2324	2341	2343	2333	2314	2292



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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°	1948	2051	2132	2186	2226	2256	2271	2271	2262	2240	2216
-25°	1868	1980	2059	2112	2153	2183	2190	2190	2176	2154	2133
-27.5°	1776	1883	1966	2026	2071	2090	2098	2100	2080	2057	2041
-30°	1675	1769	1853	1925	1962	1983	1993	1987	1971	1955	1941
-32.5°	1531	1642	1728	1795	1834	1857	1877	1861	1846	1839	1830
-35°	1370	1484	1588	1639	1681	1711	1723	1717	1705	1707	1702
-37.5°	1185	1306	1396	1461	1503	1538	1551	1551	1551	1553	1550
-40°	991	1109	1189	1256	1303	1337	1353	1361	1373	1376	1372
-42.5°	791	889	969	1033	1086	1120	1137	1144	1166	1177	1178
-45°	598	677	743	805	853	886	908	935	947	958	966
-47.5°	429	485	541	587	628	661	676	696	723	737	747
-50°	298	334	375	404	442	469	479	502	524	537	548
-52.5°	210	237	255	274	303	321	329	348	362	369	378
-55°	159	173	182	198	212	220	228	241	249	250	255
-57.5°	124	132	140	150	157	161	168	176	180	183	185
-60°	100	106	112	118	122	126	131	135	138	140	142
-62.5°	83	87	91	95	98	101	105	108	111	112	114
-65°	68	71	74	77	79	82	85	87	89	91	92
-67.5°	55	57	59	62	64	66	68	69	71	72	73
-70°	42	44	46	47	49	51	52	54	55	56	57
-72.5°	32	33	34	36	37	38	39	40	41	42	42
-75°	22	24	25	25	26	27	28	29	29	30	30
-77.5°	14	15	16	17	17	18	18	19	19	19	19
-80°	9	10	10	11	11	11	11	12	12	12	12
-82.5°	6	7	7	7	8	8	8	8	8	9	9
-85°	5	5	5	6	6	6	6	6	7	7	7
-87.5°	3	3	4	4	4	4	5	5	5	5	5
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731778
 CATALOG NUMBER: NHRS50UBZ750-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°	2	2	2	2	2	2	2	2	2	1	1
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	7	6	6	6	6	6	7	7	6	8	8
55°	27	23	21	19	21	23	27	29	30	30	27
52.5°	84	86	90	89	90	86	84	80	76	73	69
50°	131	130	132	135	132	130	131	130	132	136	127
47.5°	270	255	247	246	247	255	270	272	266	257	240
45°	478	487	503	508	503	487	478	465	454	443	437
42.5°	617	619	623	627	623	619	617	609	606	597	578
40°	726	722	719	719	719	722	726	728	749	728	723
37.5°	1000	989	974	976	974	989	1000	989	988	986	986
35°	1279	1286	1298	1293	1298	1286	1279	1274	1274	1270	1251
32.5°	1448	1449	1449	1447	1449	1449	1448	1451	1453	1450	1448
30°	1552	1545	1533	1538	1533	1545	1552	1564	1570	1580	1589
27.5°	1652	1638	1622	1624	1622	1638	1652	1675	1674	1716	1711
25°	1857	1844	1817	1822	1817	1844	1857	1864	1884	1919	1918
22.5°	2100	2098	2099	2099	2099	2098	2100	2121	2135	2160	2153
20°	2250	2235	2228	2235	2228	2235	2250	2270	2286	2307	2310
17.5°	2331	2321	2318	2323	2318	2321	2331	2354	2372	2387	2400
15°	2401	2391	2389	2394	2389	2391	2401	2420	2439	2452	2458
12.5°	2465	2451	2448	2461	2448	2451	2465	2483	2501	2513	2517
10°	2525	2506	2503	2515	2503	2506	2525	2543	2559	2573	2578
7.5°	2579	2556	2550	2569	2550	2556	2579	2598	2614	2628	2630
5°	2618	2596	2576	2602	2576	2596	2618	2642	2658	2670	2675
2.5°	2632	2616	2602	2611	2602	2616	2632	2660	2679	2694	2698
0°	2635	2611	2606	2599	2606	2611	2635	2675	2699	2718	2725
-2.5°	2631	2614	2603	2597	2603	2614	2631	2656	2676	2693	2699
-5°	2612	2595	2575	2583	2575	2595	2612	2638	2654	2667	2671
-7.5°	2577	2551	2543	2551	2543	2551	2577	2593	2610	2627	2626
-10°	2518	2498	2494	2498	2494	2498	2518	2539	2554	2566	2574
-12.5°	2461	2447	2442	2438	2442	2447	2461	2481	2501	2510	2513
-15°	2404	2391	2385	2382	2385	2391	2404	2422	2441	2455	2458
-17.5°	2341	2327	2318	2314	2318	2327	2341	2362	2380	2396	2405
-20°	2272	2254	2243	2236	2243	2254	2272	2292	2314	2333	2343



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 CATALOG NUMBER: NHRS50UBZ750-VS_25

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2197	2178	2166	2160	2166	2178	2197	2216	2240	2262	2271
-25°	2114	2099	2084	2081	2084	2099	2114	2133	2154	2176	2190
-27.5°	2022	2012	1997	1990	1997	2012	2022	2041	2057	2080	2100
-30°	1923	1917	1907	1897	1907	1917	1923	1941	1955	1971	1987
-32.5°	1819	1814	1807	1801	1807	1814	1819	1830	1839	1846	1861
-35°	1698	1695	1690	1679	1690	1695	1698	1702	1707	1705	1717
-37.5°	1553	1552	1550	1543	1550	1552	1553	1550	1553	1551	1551
-40°	1380	1381	1382	1376	1382	1381	1380	1372	1376	1373	1361
-42.5°	1188	1189	1191	1183	1191	1189	1188	1178	1177	1166	1144
-45°	978	978	982	979	982	978	978	966	958	947	935
-47.5°	758	761	764	758	764	761	758	747	737	723	696
-50°	555	555	558	554	558	555	555	548	537	524	502
-52.5°	383	381	383	382	383	381	383	378	369	362	348
-55°	257	257	258	257	258	257	257	255	250	249	241
-57.5°	187	187	187	187	187	187	187	185	183	180	176
-60°	143	144	144	144	144	144	143	142	140	138	135
-62.5°	114	115	115	115	115	115	114	114	112	111	108
-65°	92	93	93	93	93	93	92	92	91	89	87
-67.5°	74	75	74	74	74	75	74	73	72	71	69
-70°	57	57	57	57	57	57	57	57	56	55	54
-72.5°	42	42	42	42	42	42	42	42	42	41	40
-75°	30	30	29	29	29	30	30	30	30	29	29
-77.5°	19	19	19	19	19	19	19	19	19	19	19
-80°	12	12	12	12	12	12	12	12	12	12	12
-82.5°	9	9	9	9	9	9	9	9	9	8	8
-85°	7	7	7	7	7	7	7	7	7	7	6
-87.5°	6	6	6	6	6	6	6	5	5	5	5
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731778
 CATALOG NUMBER: NHRS50UBZ750-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	3	3	3	3	2	3	3
57.5°	7	7	8	8	6	7	8	7	6	7	6
55°	22	23	24	22	18	19	18	16	15	14	13
52.5°	64	60	56	50	48	45	36	32	30	29	24
50°	117	125	113	89	96	92	81	64	57	52	43
47.5°	239	239	226	205	187	171	155	124	107	86	74
45°	406	389	377	350	317	288	259	222	174	144	113
42.5°	563	540	513	498	452	411	379	337	278	216	173
40°	736	689	674	671	630	544	518	479	404	320	246
37.5°	981	962	918	894	854	768	692	635	560	447	351
35°	1248	1226	1184	1143	1109	989	891	813	718	583	464
32.5°	1450	1415	1387	1346	1284	1180	1071	985	867	722	583
30°	1585	1558	1522	1501	1442	1345	1223	1127	1007	859	700
27.5°	1730	1701	1657	1643	1603	1505	1392	1275	1149	992	822
25°	1928	1903	1851	1819	1764	1677	1562	1435	1293	1125	934
22.5°	2153	2114	2065	2016	1932	1832	1722	1594	1436	1245	1045
20°	2309	2279	2239	2174	2079	1982	1870	1724	1545	1354	1150
17.5°	2393	2379	2349	2286	2201	2104	1969	1811	1640	1453	1257
15°	2457	2441	2410	2363	2293	2182	2042	1884	1720	1537	1326
12.5°	2512	2496	2466	2418	2349	2244	2105	1944	1779	1588	1371
10°	2569	2548	2512	2460	2390	2293	2159	1997	1820	1624	1404
7.5°	2619	2595	2557	2498	2422	2325	2201	2042	1857	1653	1426
5°	2661	2633	2589	2527	2448	2348	2232	2078	1888	1673	1438
2.5°	2687	2659	2615	2551	2472	2369	2257	2109	1922	1699	1463
0°	2716	2688	2640	2572	2487	2384	2263	2117	1936	1704	1470
-2.5°	2688	2661	2618	2551	2471	2368	2252	2111	1932	1711	1472
-5°	2657	2631	2586	2522	2441	2342	2229	2090	1912	1698	1455
-7.5°	2614	2590	2549	2488	2410	2316	2207	2073	1901	1690	1455
-10°	2564	2542	2502	2446	2374	2285	2180	2051	1883	1674	1446
-12.5°	2507	2488	2454	2403	2333	2249	2149	2025	1857	1649	1426
-15°	2451	2435	2403	2353	2290	2210	2113	1991	1821	1615	1397
-17.5°	2398	2382	2353	2303	2241	2166	2069	1941	1773	1571	1365
-20°	2341	2324	2293	2247	2188	2119	2019	1890	1717	1517	1304



REPORT NUMBER: P731778
 CATALOG NUMBER: NHRS50UBZ750-VS_25

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2271	2256	2226	2186	2132	2051	1948	1821	1657	1453	1243
-25°	2190	2183	2153	2112	2059	1980	1868	1733	1568	1379	1173
-27.5°	2098	2090	2071	2026	1966	1883	1776	1639	1469	1281	1088
-30°	1993	1983	1962	1925	1853	1769	1675	1528	1353	1167	980
-32.5°	1877	1857	1834	1795	1728	1642	1531	1402	1220	1040	853
-35°	1723	1711	1681	1639	1588	1484	1370	1229	1075	902	717
-37.5°	1551	1538	1503	1461	1396	1306	1185	1051	921	748	591
-40°	1353	1337	1303	1256	1189	1109	991	874	733	602	471
-42.5°	1137	1120	1086	1033	969	889	791	679	567	463	371
-45°	908	886	853	805	743	677	598	510	420	350	276
-47.5°	676	661	628	587	541	485	429	363	310	253	215
-50°	479	469	442	404	375	334	298	259	222	194	164
-52.5°	329	321	303	274	255	237	210	190	167	149	132
-55°	228	220	212	198	182	173	159	144	132	118	108
-57.5°	168	161	157	150	140	132	124	115	107	99	90
-60°	131	126	122	118	112	106	100	95	88	83	77
-62.5°	105	101	98	95	91	87	83	79	74	70	64
-65°	85	82	79	77	74	71	68	65	62	57	53
-67.5°	68	66	64	62	59	57	55	52	49	46	42
-70°	52	51	49	47	46	44	42	40	38	35	33
-72.5°	39	38	37	36	34	33	32	30	28	26	24
-75°	28	27	26	25	25	24	22	21	20	18	17
-77.5°	18	18	17	17	16	15	14	13	13	12	11
-80°	11	11	11	11	10	10	9	9	8	8	7
-82.5°	8	8	8	7	7	7	6	6	6	6	5
-85°	6	6	6	6	5	5	5	5	4	4	4
-87.5°	5	4	4	4	4	3	3	3	3	2	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731778
 CATALOG NUMBER: NHRS50UBZ750-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°	6	4	5	5	4	3	3	3	2	2	1
55°	11	9	9	9	7	5	5	4	3	3	2
52.5°	20	17	16	14	11	8	8	6	5	3	3
50°	35	29	25	21	17	14	11	10	7	5	4
47.5°	56	46	37	30	25	21	17	13	10	7	5
45°	92	69	54	43	34	29	23	17	13	9	6
42.5°	133	103	77	56	46	37	30	23	17	12	8
40°	194	145	105	78	59	46	38	29	21	15	11
37.5°	263	199	145	101	74	59	46	36	26	19	13
35°	358	263	187	130	95	71	54	42	31	22	15
32.5°	462	336	239	165	115	84	65	49	36	26	17
30°	564	423	296	198	138	101	75	56	41	29	20
27.5°	657	504	356	244	167	118	85	62	46	33	23
25°	752	586	427	294	194	132	93	68	51	37	26
22.5°	851	667	493	342	217	145	103	76	57	41	29
20°	942	746	552	381	246	164	114	83	61	45	31
17.5°	1026	815	604	422	277	181	124	89	66	48	34
15°	1090	866	650	457	303	196	133	95	70	52	36
12.5°	1139	910	690	487	325	209	141	100	74	54	38
10°	1177	945	723	511	343	221	148	104	77	56	40
7.5°	1203	972	748	530	356	230	153	107	79	58	41
5°	1221	994	768	549	368	237	157	110	81	60	42
2.5°	1240	1015	786	567	377	243	161	112	82	60	43
0°	1240	1020	789	573	379	245	163	113	82	61	44
-2.5°	1246	1022	793	575	382	246	164	114	83	62	44
-5°	1234	1008	783	566	378	243	162	113	84	62	45
-7.5°	1230	1000	773	555	371	239	160	113	83	61	44
-10°	1220	991	763	546	363	235	157	111	82	61	44
-12.5°	1201	973	745	530	352	229	154	110	81	60	44
-15°	1173	946	719	506	337	221	150	107	80	59	43
-17.5°	1136	910	684	475	317	210	144	104	78	58	42
-20°	1086	863	641	436	292	196	137	101	76	57	41



REPORT NUMBER: P731778
 CATALOG NUMBER: NHRS50UBZ750-VS_25

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1026	803	589	403	269	179	129	96	73	55	40
-25°	956	733	530	365	248	168	121	91	70	53	39
-27.5°	872	655	464	321	222	157	115	87	67	51	37
-30°	776	577	407	277	194	143	108	83	64	48	35
-32.5°	663	492	348	243	173	129	100	78	61	46	34
-35°	556	412	288	208	155	118	92	73	57	43	32
-37.5°	454	332	244	178	136	108	85	68	53	41	30
-40°	361	265	200	156	122	96	79	63	50	38	28
-42.5°	276	216	168	133	109	88	73	58	46	35	26
-45°	223	174	142	117	96	80	66	53	42	32	24
-47.5°	174	144	120	101	87	72	60	48	38	30	22
-50°	142	120	103	89	77	65	53	43	35	27	20
-52.5°	116	102	89	78	67	57	48	39	31	24	18
-55°	97	87	77	68	59	51	42	34	27	21	16
-57.5°	83	74	67	59	51	44	36	30	24	19	14
-60°	70	63	57	50	43	37	31	26	21	16	12
-62.5°	59	53	48	42	37	32	27	22	17	14	11
-65°	48	44	40	35	30	26	22	18	15	12	9
-67.5°	39	35	32	28	24	21	18	15	12	9	7
-70°	30	27	25	22	19	16	14	12	9	8	6
-72.5°	22	20	18	16	14	12	11	9	7	6	5
-75°	15	14	13	12	10	9	8	7	6	4	4
-77.5°	11	10	9	8	7	6	6	5	4	3	3
-80°	7	6	6	5	5	4	4	3	3	3	2
-82.5°	5	4	4	4	3	3	3	2	2	2	1
-85°	4	3	3	3	3	2	2	2	1	1	1
-87.5°	2	2	2	1	1	1	1	1	1	1	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731778
 CATALOG NUMBER: NHRS50UBZ750-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	5	3	1	1	0	0
37.5°	9	6	3	2	1	0	0
35°	10	6	4	2	1	0	0
32.5°	11	7	4	2	1	0	0
30°	13	9	5	2	1	0	0
27.5°	15	10	5	3	1	0	0
25°	17	11	6	3	1	0	0
22.5°	19	12	6	3	1	0	0
20°	21	13	7	3	2	1	0
17.5°	22	14	7	4	2	1	0
15°	23	15	8	4	2	1	0
12.5°	25	15	8	4	2	1	0
10°	26	16	9	4	2	1	0
7.5°	27	17	10	4	2	1	0
5°	28	18	10	5	2	1	0
2.5°	29	18	10	5	2	1	0
0°	29	19	10	5	2	1	0
-2.5°	30	19	11	5	2	1	0
-5°	30	19	11	5	2	1	0
-7.5°	30	19	11	5	2	1	0
-10°	30	20	11	5	2	1	0
-12.5°	30	20	11	5	2	1	0
-15°	30	20	11	5	2	1	0
-17.5°	29	19	11	6	2	1	0
-20°	29	19	11	5	2	1	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	28	19	11	5	2	1	0
-25°	27	18	11	5	2	1	0
-27.5°	26	17	10	5	2	1	0
-30°	25	17	10	5	2	1	0
-32.5°	24	16	10	5	2	1	0
-35°	22	15	9	5	2	1	0
-37.5°	21	14	8	4	2	1	0
-40°	20	13	8	4	2	1	0
-42.5°	19	12	7	4	2	1	0
-45°	17	11	7	3	2	1	0
-47.5°	15	11	6	3	2	1	0
-50°	14	10	6	3	1	1	0
-52.5°	13	8	5	3	1	1	0
-55°	11	8	5	3	1	1	0
-57.5°	10	7	4	2	1	1	0
-60°	9	6	3	2	1	1	0
-62.5°	8	5	3	2	1	1	0
-65°	7	4	3	2	1	0	0
-67.5°	6	4	2	1	1	0	0
-70°	4	3	2	1	1	0	0
-72.5°	4	3	2	1	1	0	0
-75°	3	2	1	1	1	0	0
-77.5°	2	2	1	1	1	0	0
-80°	1	1	1	1	1	0	0
-82.5°	1	1	1	1	0	0	0
-85°	1	1	1	0	0	0	0
-87.5°	1	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)