

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: P731770

Luminaire Tested: **NHRS50UBZ740-VS_25**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731770
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ740-VS_25
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 4000K WITH VISOR @ 25% output
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

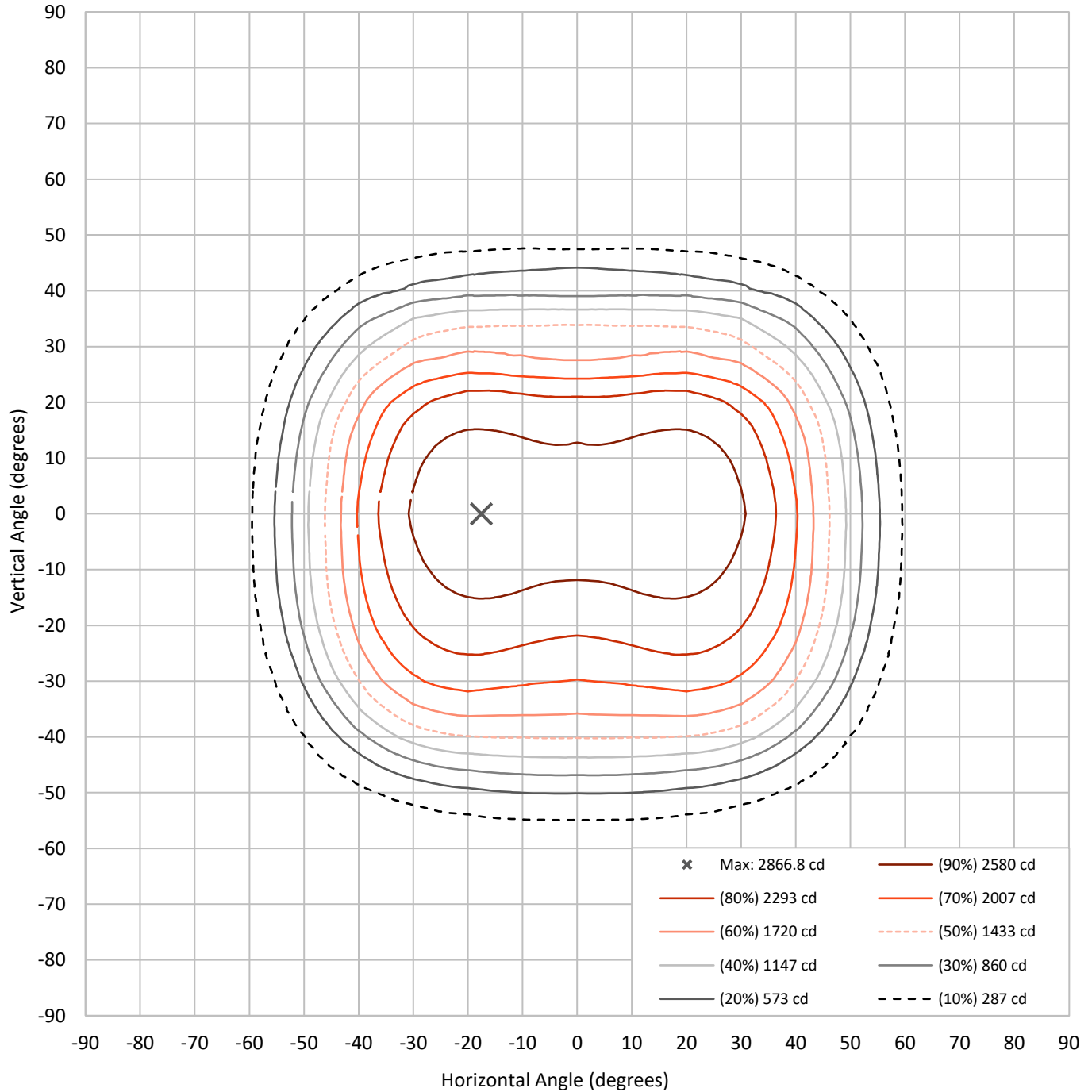
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	4834.3 lumens	Max Intensity:	2866.8 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	133.5 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:	3801.2 lumens	Field Lumens:	4676.3 lumens
Beam Efficiency:	78.6%	Field Efficiency:	96.7%
Input Watts (W):	36.2		
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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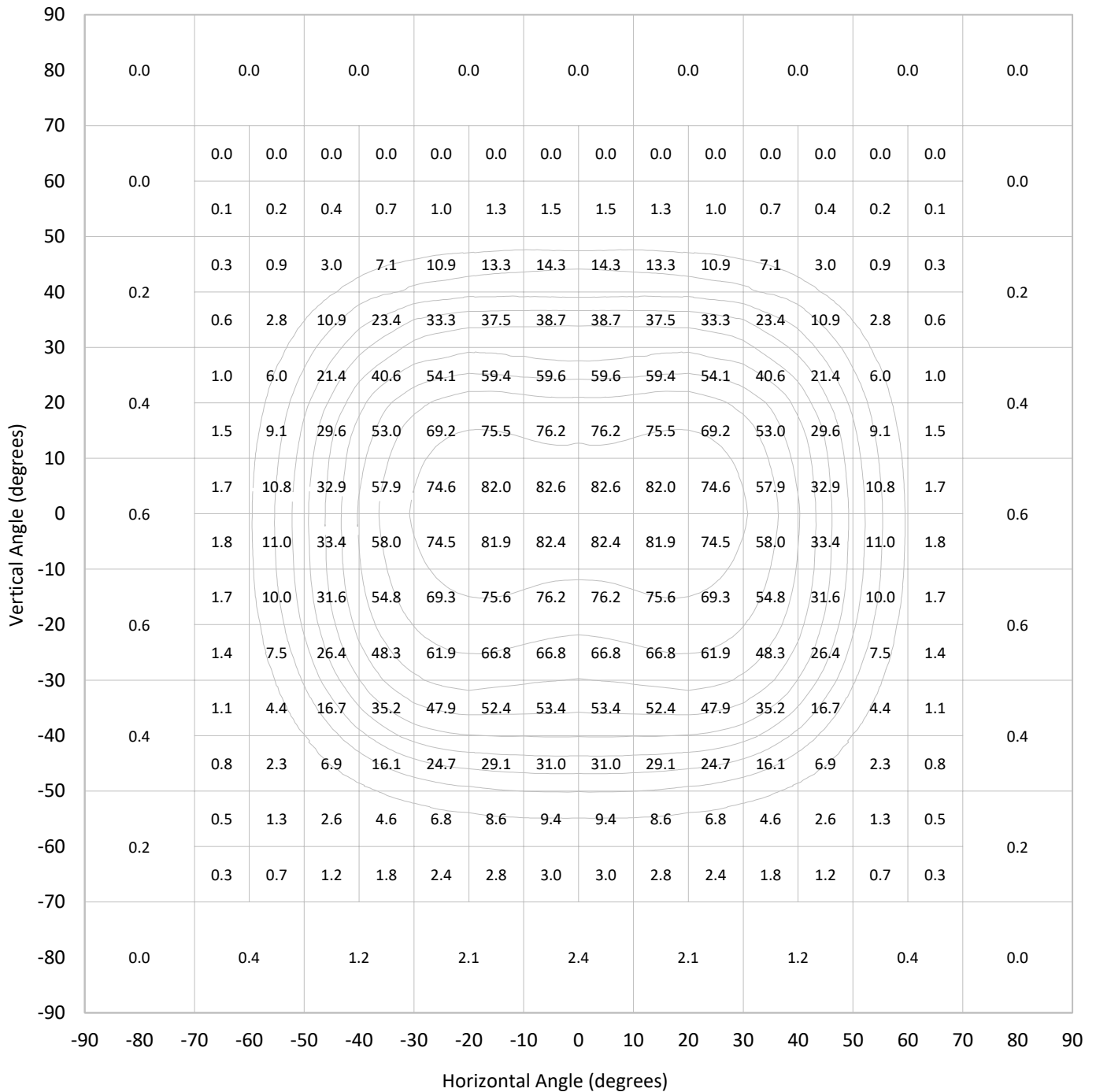
Iso-Candela Plot





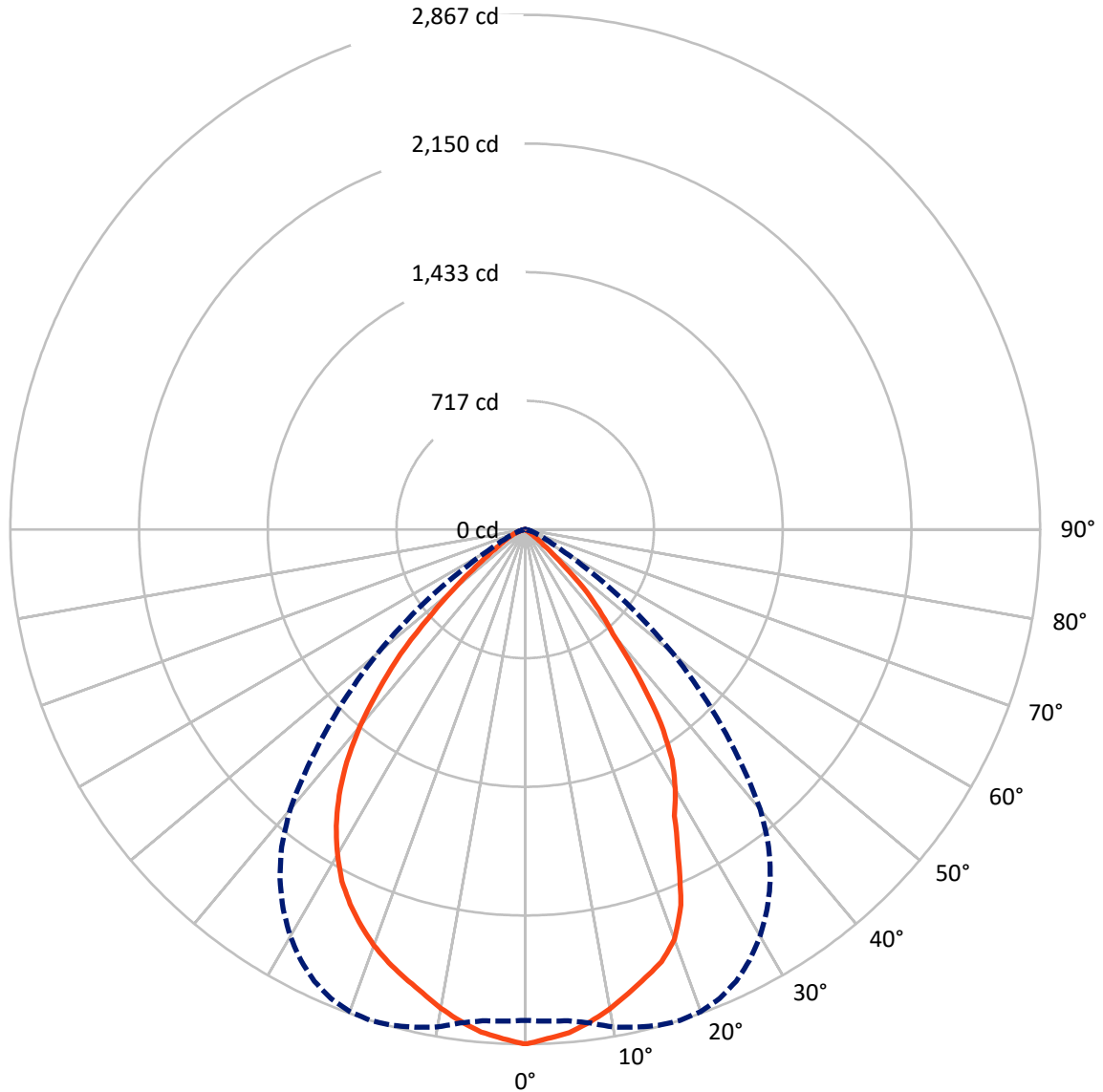
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Lumen Table



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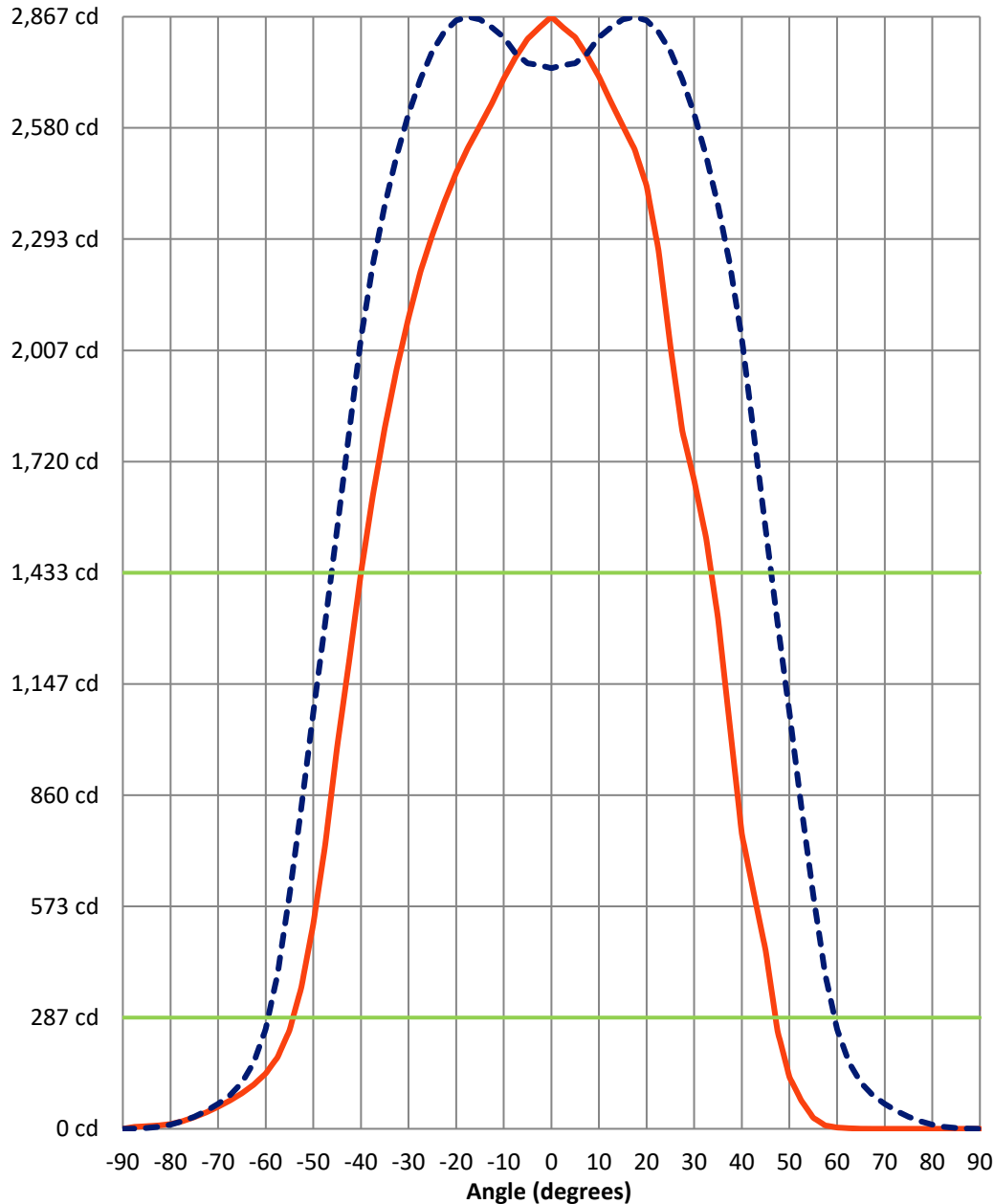
Luminous Intensity Polar Plot



— 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: 3801.2
 Efficiency: 78.6%

Field:
 H Angle: 119°
 V Angle: 101.3°
 Lumens: 4676.3
 Efficiency: 96.7%

Spill:
 Lumens: 158
 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	1	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	2	2
57.5°	0	0	0	1	1	1	1	1	2	2	3
55°	0	0	0	1	1	1	2	2	3	3	5
52.5°	0	0	0	1	1	2	2	3	4	6	7
50°	0	0	1	1	1	2	3	4	5	8	10
47.5°	0	0	1	1	2	3	4	5	7	10	14
45°	0	0	1	1	2	4	5	7	10	14	18
42.5°	0	0	1	1	2	4	6	9	13	18	24
40°	0	0	1	2	3	5	8	11	16	22	31
37.5°	0	0	1	2	3	6	9	14	20	27	37
35°	0	0	1	2	4	7	11	16	23	32	45
32.5°	0	0	1	2	4	8	12	18	27	38	52
30°	0	0	1	3	5	9	14	21	31	43	59
27.5°	0	0	1	3	6	10	16	24	35	49	66
25°	0	0	1	3	6	11	18	27	39	54	72
22.5°	0	0	1	3	7	12	20	30	43	59	80
20°	0	1	2	4	7	13	22	33	47	65	87
17.5°	0	1	2	4	8	14	23	36	51	69	94
15°	0	1	2	4	8	15	25	38	54	74	100
12.5°	0	1	2	4	9	16	26	40	57	78	105
10°	0	1	2	4	9	17	27	42	59	81	110
7.5°	0	1	2	5	10	18	28	43	61	83	113
5°	0	1	2	5	10	19	30	45	63	85	116
2.5°	0	1	2	5	11	19	30	45	64	86	118
0°	0	1	2	5	11	20	31	46	64	87	119
-2.5°	0	1	2	5	11	20	32	47	65	87	120
-5°	0	1	2	5	11	21	32	47	65	88	119
-7.5°	0	1	2	6	11	21	32	47	65	87	118
-10°	0	1	2	6	11	21	32	46	64	86	117
-12.5°	0	1	2	6	11	21	32	46	63	85	115
-15°	0	1	2	6	11	21	31	45	62	84	113
-17.5°	0	1	2	6	11	20	31	44	61	82	110
-20°	0	1	2	6	11	20	30	43	59	79	106



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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	6	11	20	30	42	58	77	101
-25°	0	1	2	6	11	19	29	41	56	73	96
-27.5°	0	1	2	5	11	18	28	39	53	70	92
-30°	0	1	2	5	10	17	27	37	51	67	87
-32.5°	0	1	2	5	10	16	25	35	48	64	82
-35°	0	1	2	5	9	15	24	34	46	60	77
-37.5°	0	1	2	5	9	14	22	32	43	56	72
-40°	0	1	2	4	8	14	21	30	40	53	67
-42.5°	0	1	2	4	8	13	19	27	37	49	61
-45°	0	1	2	4	7	12	18	25	34	44	56
-47.5°	0	1	2	3	7	11	16	23	31	40	51
-50°	0	1	2	3	6	10	15	21	28	36	46
-52.5°	0	1	1	3	6	9	13	19	25	32	41
-55°	0	1	1	3	5	8	12	17	22	28	36
-57.5°	0	1	1	2	4	7	11	15	20	25	31
-60°	0	1	1	2	4	6	9	13	17	22	27
-62.5°	0	1	1	2	3	6	8	11	15	18	23
-65°	0	0	1	2	3	5	7	9	12	15	19
-67.5°	0	0	1	1	3	4	6	8	10	13	16
-70°	0	0	1	1	2	3	5	6	8	10	12
-72.5°	0	0	1	1	2	3	4	5	6	8	9
-75°	0	0	1	1	1	2	3	4	5	6	7
-77.5°	0	0	1	1	1	2	2	3	4	4	5
-80°	0	0	1	1	1	1	1	2	3	3	4
-82.5°	0	0	0	1	1	1	1	1	2	2	3
-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



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 CATALOG NUMBER: NHRS50UBZ740-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	10	10	11	14	14	16	16
52.5°	8	9	12	15	16	18	21	26	30	32	34
50°	12	15	18	22	26	30	37	45	55	60	67
47.5°	18	22	27	32	39	49	59	78	91	112	131
45°	24	30	36	45	57	73	97	119	151	183	233
42.5°	32	39	49	59	81	108	140	182	227	292	355
40°	40	49	62	83	110	152	204	258	336	425	504
37.5°	48	62	78	106	153	209	277	369	470	589	668
35°	57	75	100	137	197	277	377	488	613	755	855
32.5°	68	89	121	174	251	354	486	614	759	912	1036
30°	79	106	145	209	311	445	594	736	904	1059	1186
27.5°	89	124	175	257	375	531	691	864	1044	1209	1341
25°	98	139	205	309	450	617	792	983	1184	1360	1509
22.5°	109	153	228	360	519	702	895	1100	1309	1511	1677
20°	120	172	259	400	581	785	991	1210	1424	1625	1814
17.5°	130	190	291	444	635	857	1080	1323	1528	1726	1905
15°	140	206	318	481	684	911	1147	1395	1617	1810	1982
12.5°	148	220	342	512	726	957	1198	1442	1671	1871	2045
10°	155	232	360	538	760	994	1238	1477	1708	1915	2100
7.5°	161	242	375	557	787	1023	1266	1500	1738	1954	2148
5°	165	249	387	577	808	1045	1284	1512	1760	1986	2186
2.5°	170	256	397	596	827	1068	1304	1539	1787	2022	2218
0°	171	257	399	603	830	1073	1305	1546	1793	2037	2227
-2.5°	172	259	402	605	834	1075	1311	1548	1800	2032	2221
-5°	170	256	397	595	823	1060	1298	1531	1786	2011	2199
-7.5°	169	251	390	584	813	1052	1294	1531	1778	2000	2181
-10°	165	247	382	574	803	1042	1284	1521	1761	1981	2158
-12.5°	162	241	371	557	784	1023	1264	1501	1735	1953	2130
-15°	158	232	354	533	756	995	1234	1470	1699	1916	2094
-17.5°	152	221	333	500	719	957	1195	1436	1653	1865	2042
-20°	144	206	307	459	674	908	1142	1372	1596	1807	1988



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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°	135	188	282	424	620	845	1079	1308	1529	1743	1916
-25°	128	177	261	384	557	771	1006	1234	1451	1649	1823
-27.5°	121	165	233	338	488	689	918	1145	1348	1545	1724
-30°	113	150	204	291	428	607	816	1031	1228	1423	1607
-32.5°	105	135	182	256	366	517	697	898	1094	1283	1475
-35°	97	124	163	219	303	433	585	754	949	1131	1293
-37.5°	90	113	143	187	257	350	477	622	787	969	1106
-40°	83	101	128	164	210	279	380	495	634	772	920
-42.5°	76	93	114	140	177	228	291	390	488	596	714
-45°	69	84	101	123	149	183	234	290	368	442	536
-47.5°	63	76	91	106	126	152	183	226	266	326	382
-50°	56	68	80	93	108	126	150	173	204	234	272
-52.5°	50	60	71	82	93	107	122	139	157	175	200
-55°	44	53	62	71	81	91	102	114	124	139	151
-57.5°	38	46	54	62	70	78	87	95	104	112	121
-60°	33	39	46	53	60	67	73	81	87	93	100
-62.5°	28	33	38	44	50	56	62	68	74	78	83
-65°	23	27	32	37	42	46	51	56	61	65	68
-67.5°	19	22	26	29	33	37	41	45	48	52	55
-70°	15	17	20	23	26	29	32	34	37	40	42
-72.5°	11	13	15	17	19	21	23	25	27	30	32
-75°	8	9	11	12	14	15	16	18	19	21	22
-77.5°	6	7	8	8	9	10	11	12	13	13	14
-80°	4	4	5	6	6	7	7	8	8	9	9
-82.5°	3	3	4	4	4	5	5	5	6	6	6
-85°	2	2	3	3	3	3	4	4	4	5	5
-87.5°	1	1	1	1	2	2	2	2	3	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°	9	7	6	8	9	7	7	9	8	7	7
55°	19	20	19	23	26	25	24	29	31	31	31
52.5°	38	48	51	52	58	64	68	73	77	80	84
50°	85	97	101	94	119	132	123	134	143	139	137
47.5°	164	180	196	216	237	251	251	252	270	280	287
45°	272	303	333	368	396	409	427	459	466	478	489
42.5°	398	432	476	524	539	568	593	608	628	637	641
40°	545	572	663	706	708	725	775	761	766	788	766
37.5°	728	808	898	940	965	1012	1032	1037	1037	1040	1040
35°	937	1040	1167	1202	1245	1290	1313	1316	1336	1340	1340
32.5°	1126	1242	1351	1416	1459	1488	1525	1523	1525	1529	1527
30°	1287	1415	1517	1579	1601	1639	1667	1671	1662	1652	1645
27.5°	1464	1583	1686	1728	1743	1790	1820	1799	1805	1761	1762
25°	1643	1764	1856	1913	1947	2002	2028	2017	2018	1982	1961
22.5°	1812	1927	2033	2121	2172	2224	2265	2265	2272	2246	2231
20°	1967	2085	2188	2287	2355	2398	2429	2431	2427	2404	2388
17.5°	2071	2213	2316	2405	2471	2503	2518	2524	2511	2495	2477
15°	2148	2296	2412	2486	2536	2569	2585	2585	2580	2565	2546
12.5°	2214	2361	2471	2543	2594	2625	2642	2647	2644	2631	2612
10°	2271	2412	2514	2588	2642	2680	2702	2712	2706	2692	2675
7.5°	2315	2446	2548	2629	2690	2730	2755	2767	2765	2750	2733
5°	2348	2470	2575	2658	2723	2769	2799	2814	2809	2796	2779
2.5°	2375	2492	2601	2683	2751	2798	2827	2839	2834	2819	2798
0°	2380	2508	2616	2705	2778	2828	2857	2867	2860	2839	2814
-2.5°	2369	2492	2599	2684	2754	2800	2828	2839	2833	2815	2794
-5°	2345	2464	2568	2653	2721	2767	2796	2810	2806	2792	2775
-7.5°	2322	2436	2536	2618	2682	2725	2750	2763	2763	2745	2728
-10°	2293	2404	2497	2574	2632	2674	2698	2707	2700	2686	2671
-12.5°	2261	2366	2455	2528	2582	2618	2637	2643	2641	2631	2610
-15°	2223	2325	2409	2476	2528	2561	2578	2586	2583	2569	2548
-17.5°	2176	2279	2357	2422	2476	2506	2522	2530	2520	2503	2485
-20°	2124	2229	2301	2364	2413	2444	2463	2465	2454	2435	2411



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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°	2050	2158	2243	2300	2342	2374	2390	2389	2380	2357	2331
-25°	1965	2083	2166	2222	2265	2296	2304	2304	2289	2266	2244
-27.5°	1868	1981	2068	2131	2178	2199	2207	2209	2188	2164	2147
-30°	1762	1861	1949	2025	2064	2086	2097	2091	2074	2056	2042
-32.5°	1610	1728	1818	1888	1930	1954	1975	1958	1942	1934	1925
-35°	1441	1561	1670	1724	1769	1799	1812	1806	1793	1796	1790
-37.5°	1246	1374	1469	1537	1582	1618	1632	1632	1632	1634	1630
-40°	1043	1166	1251	1321	1371	1407	1423	1432	1444	1448	1443
-42.5°	832	935	1019	1087	1143	1178	1196	1203	1227	1238	1239
-45°	629	712	782	847	897	932	955	983	996	1008	1016
-47.5°	452	510	569	618	661	696	712	732	761	775	786
-50°	313	351	395	425	465	493	504	528	552	565	576
-52.5°	221	249	269	288	319	338	346	365	380	389	398
-55°	167	182	192	209	223	232	239	254	261	263	268
-57.5°	131	139	147	158	165	170	177	185	190	192	195
-60°	106	111	118	124	129	133	138	143	145	147	149
-62.5°	87	91	96	100	103	106	111	114	116	118	119
-65°	72	75	78	81	83	86	89	92	93	95	97
-67.5°	58	60	62	65	67	69	71	73	74	76	77
-70°	45	47	48	50	52	53	55	57	58	59	59
-72.5°	33	34	36	37	38	40	41	42	43	44	44
-75°	24	25	26	27	27	28	29	30	31	31	31
-77.5°	15	16	17	17	18	19	19	20	20	20	20
-80°	10	10	11	11	11	12	12	12	12	12	13
-82.5°	7	7	7	8	8	8	9	9	9	9	9
-85°	5	5	6	6	6	6	6	7	7	7	7
-87.5°	3	4	4	4	4	5	5	5	6	6	6
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731770
 CATALOG NUMBER: NHRS50UBZ740-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°	4	4	4	4	4	4	4	3	3	3	3
57.5°	7	7	6	6	6	7	7	7	7	8	9
55°	28	24	22	21	22	24	28	31	31	31	29
52.5°	88	91	94	94	94	91	88	84	80	77	73
50°	138	137	139	142	139	137	138	137	139	143	134
47.5°	284	268	260	259	260	268	284	287	280	270	252
45°	503	512	529	535	529	512	503	489	478	466	459
42.5°	649	650	655	659	655	650	649	641	637	628	608
40°	764	759	756	756	756	759	764	766	788	766	761
37.5°	1052	1041	1025	1026	1025	1041	1052	1040	1040	1037	1037
35°	1346	1353	1365	1360	1365	1353	1346	1340	1340	1336	1316
32.5°	1523	1524	1524	1522	1524	1524	1523	1527	1529	1525	1523
30°	1632	1625	1613	1618	1613	1625	1632	1645	1652	1662	1671
27.5°	1738	1723	1706	1708	1706	1723	1738	1762	1761	1805	1799
25°	1954	1940	1911	1917	1911	1940	1954	1961	1982	2018	2017
22.5°	2209	2207	2208	2209	2208	2207	2209	2231	2246	2272	2265
20°	2367	2351	2344	2351	2344	2351	2367	2388	2404	2427	2431
17.5°	2452	2441	2439	2444	2439	2441	2452	2477	2495	2511	2524
15°	2526	2515	2513	2518	2513	2515	2526	2546	2565	2580	2585
12.5°	2593	2578	2576	2589	2576	2578	2593	2612	2631	2644	2647
10°	2657	2636	2633	2646	2633	2636	2657	2675	2692	2706	2712
7.5°	2713	2689	2682	2702	2682	2689	2713	2733	2750	2765	2767
5°	2754	2731	2710	2737	2710	2731	2754	2779	2796	2809	2814
2.5°	2769	2752	2737	2747	2737	2752	2769	2798	2819	2834	2839
0°	2772	2747	2742	2734	2742	2747	2772	2814	2839	2860	2867
-2.5°	2768	2749	2738	2732	2738	2749	2768	2794	2815	2833	2839
-5°	2747	2730	2709	2718	2709	2730	2747	2775	2792	2806	2810
-7.5°	2711	2683	2675	2684	2675	2683	2711	2728	2745	2763	2763
-10°	2649	2628	2624	2628	2624	2628	2649	2671	2686	2700	2707
-12.5°	2589	2574	2569	2564	2569	2574	2589	2610	2631	2641	2643
-15°	2528	2515	2509	2506	2509	2515	2528	2548	2569	2583	2586
-17.5°	2463	2448	2438	2434	2438	2448	2463	2485	2503	2520	2530
-20°	2390	2371	2360	2352	2360	2371	2390	2411	2435	2454	2465



REPORT NUMBER: P731770
 CATALOG NUMBER: NHRS50UBZ740-VS_25

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2311	2292	2279	2273	2279	2292	2311	2331	2357	2380	2389
-25°	2224	2208	2192	2190	2192	2208	2224	2244	2266	2289	2304
-27.5°	2127	2116	2101	2093	2101	2116	2127	2147	2164	2188	2209
-30°	2023	2017	2007	1996	2007	2017	2023	2042	2056	2074	2091
-32.5°	1913	1908	1901	1894	1901	1908	1913	1925	1934	1942	1958
-35°	1786	1783	1777	1767	1777	1783	1786	1790	1796	1793	1806
-37.5°	1633	1632	1630	1623	1630	1632	1633	1630	1634	1632	1632
-40°	1452	1453	1454	1448	1454	1453	1452	1443	1448	1444	1432
-42.5°	1250	1251	1253	1244	1253	1251	1250	1239	1238	1227	1203
-45°	1028	1029	1033	1030	1033	1029	1028	1016	1008	996	983
-47.5°	798	800	804	797	804	800	798	786	775	761	732
-50°	584	584	587	582	587	584	584	576	565	552	528
-52.5°	402	400	403	401	403	400	402	398	389	380	365
-55°	271	271	272	270	272	271	271	268	263	261	254
-57.5°	197	196	197	197	197	196	197	195	192	190	185
-60°	151	151	152	151	152	151	151	149	147	145	143
-62.5°	120	121	121	121	121	121	120	119	118	116	114
-65°	97	98	98	98	98	98	97	97	95	93	92
-67.5°	77	78	78	78	78	78	77	77	76	74	73
-70°	60	60	60	60	60	60	60	59	59	58	57
-72.5°	44	45	44	44	44	45	44	44	44	43	42
-75°	31	31	31	31	31	31	31	31	31	31	30
-77.5°	20	20	20	20	20	20	20	20	20	20	20
-80°	13	13	13	12	13	13	13	13	12	12	12
-82.5°	9	9	9	9	9	9	9	9	9	9	9
-85°	7	7	7	7	7	7	7	7	7	7	7
-87.5°	6	6	6	6	6	6	6	6	6	6	5
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731770
 CATALOG NUMBER: NHRS50UBZ740-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	9	8	6	7	9	7	6	7	6
55°	24	25	26	23	19	20	19	16	16	14	14
52.5°	68	64	58	52	51	48	38	34	32	30	26
50°	123	132	119	94	101	97	85	67	60	55	45
47.5°	251	251	237	216	196	180	164	131	112	91	78
45°	427	409	396	368	333	303	272	233	183	151	119
42.5°	593	568	539	524	476	432	398	355	292	227	182
40°	775	725	708	706	663	572	545	504	425	336	258
37.5°	1032	1012	965	940	898	808	728	668	589	470	369
35°	1313	1290	1245	1202	1167	1040	937	855	755	613	488
32.5°	1525	1488	1459	1416	1351	1242	1126	1036	912	759	614
30°	1667	1639	1601	1579	1517	1415	1287	1186	1059	904	736
27.5°	1820	1790	1743	1728	1686	1583	1464	1341	1209	1044	864
25°	2028	2002	1947	1913	1856	1764	1643	1509	1360	1184	983
22.5°	2265	2224	2172	2121	2033	1927	1812	1677	1511	1309	1100
20°	2429	2398	2355	2287	2188	2085	1967	1814	1625	1424	1210
17.5°	2518	2503	2471	2405	2316	2213	2071	1905	1726	1528	1323
15°	2585	2569	2536	2486	2412	2296	2148	1982	1810	1617	1395
12.5°	2642	2625	2594	2543	2471	2361	2214	2045	1871	1671	1442
10°	2702	2680	2642	2588	2514	2412	2271	2100	1915	1708	1477
7.5°	2755	2730	2690	2629	2548	2446	2315	2148	1954	1738	1500
5°	2799	2769	2723	2658	2575	2470	2348	2186	1986	1760	1512
2.5°	2827	2798	2751	2683	2601	2492	2375	2218	2022	1787	1539
0°	2857	2828	2778	2705	2616	2508	2380	2227	2037	1793	1546
-2.5°	2828	2800	2754	2684	2599	2492	2369	2221	2032	1800	1548
-5°	2796	2767	2721	2653	2568	2464	2345	2199	2011	1786	1531
-7.5°	2750	2725	2682	2618	2536	2436	2322	2181	2000	1778	1531
-10°	2698	2674	2632	2574	2497	2404	2293	2158	1981	1761	1521
-12.5°	2637	2618	2582	2528	2455	2366	2261	2130	1953	1735	1501
-15°	2578	2561	2528	2476	2409	2325	2223	2094	1916	1699	1470
-17.5°	2522	2506	2476	2422	2357	2279	2176	2042	1865	1653	1436
-20°	2463	2444	2413	2364	2301	2229	2124	1988	1807	1596	1372



REPORT NUMBER: P731770
 CATALOG NUMBER: NHRS50UBZ740-VS_25

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2390	2374	2342	2300	2243	2158	2050	1916	1743	1529	1308
-25°	2304	2296	2265	2222	2166	2083	1965	1823	1649	1451	1234
-27.5°	2207	2199	2178	2131	2068	1981	1868	1724	1545	1348	1145
-30°	2097	2086	2064	2025	1949	1861	1762	1607	1423	1228	1031
-32.5°	1975	1954	1930	1888	1818	1728	1610	1475	1283	1094	898
-35°	1812	1799	1769	1724	1670	1561	1441	1293	1131	949	754
-37.5°	1632	1618	1582	1537	1469	1374	1246	1106	969	787	622
-40°	1423	1407	1371	1321	1251	1166	1043	920	772	634	495
-42.5°	1196	1178	1143	1087	1019	935	832	714	596	488	390
-45°	955	932	897	847	782	712	629	536	442	368	290
-47.5°	712	696	661	618	569	510	452	382	326	266	226
-50°	504	493	465	425	395	351	313	272	234	204	173
-52.5°	346	338	319	288	269	249	221	200	175	157	139
-55°	239	232	223	209	192	182	167	151	139	124	114
-57.5°	177	170	165	158	147	139	131	121	112	104	95
-60°	138	133	129	124	118	111	106	100	93	87	81
-62.5°	111	106	103	100	96	91	87	83	78	74	68
-65°	89	86	83	81	78	75	72	68	65	61	56
-67.5°	71	69	67	65	62	60	58	55	52	48	45
-70°	55	53	52	50	48	47	45	42	40	37	34
-72.5°	41	40	38	37	36	34	33	32	30	27	25
-75°	29	28	27	27	26	25	24	22	21	19	18
-77.5°	19	19	18	17	17	16	15	14	13	13	12
-80°	12	12	11	11	11	10	10	9	9	8	8
-82.5°	9	8	8	8	7	7	7	6	6	6	5
-85°	6	6	6	6	6	5	5	5	5	4	4
-87.5°	5	5	4	4	4	4	3	3	3	3	2
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P731770
 CATALOG NUMBER: NHRS50UBZ740-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	2	2	1	1
57.5°	6	4	5	5	4	3	3	3	2	2	1
55°	11	10	10	9	7	5	5	5	3	3	2
52.5°	21	18	16	15	12	9	8	7	6	4	3
50°	37	30	26	22	18	15	12	10	8	5	4
47.5°	59	49	39	32	27	22	18	14	10	7	5
45°	97	73	57	45	36	30	24	18	14	10	7
42.5°	140	108	81	59	49	39	32	24	18	13	9
40°	204	152	110	83	62	49	40	31	22	16	11
37.5°	277	209	153	106	78	62	48	37	27	20	14
35°	377	277	197	137	100	75	57	45	32	23	16
32.5°	486	354	251	174	121	89	68	52	38	27	18
30°	594	445	311	209	145	106	79	59	43	31	21
27.5°	691	531	375	257	175	124	89	66	49	35	24
25°	792	617	450	309	205	139	98	72	54	39	27
22.5°	895	702	519	360	228	153	109	80	59	43	30
20°	991	785	581	400	259	172	120	87	65	47	33
17.5°	1080	857	635	444	291	190	130	94	69	51	36
15°	1147	911	684	481	318	206	140	100	74	54	38
12.5°	1198	957	726	512	342	220	148	105	78	57	40
10°	1238	994	760	538	360	232	155	110	81	59	42
7.5°	1266	1023	787	557	375	242	161	113	83	61	43
5°	1284	1045	808	577	387	249	165	116	85	63	45
2.5°	1304	1068	827	596	397	256	170	118	86	64	45
0°	1305	1073	830	603	399	257	171	119	87	64	46
-2.5°	1311	1075	834	605	402	259	172	120	87	65	47
-5°	1298	1060	823	595	397	256	170	119	88	65	47
-7.5°	1294	1052	813	584	390	251	169	118	87	65	47
-10°	1284	1042	803	574	382	247	165	117	86	64	46
-12.5°	1264	1023	784	557	371	241	162	115	85	63	46
-15°	1234	995	756	533	354	232	158	113	84	62	45
-17.5°	1195	957	719	500	333	221	152	110	82	61	44
-20°	1142	908	674	459	307	206	144	106	79	59	43



REPORT NUMBER: P731770
 CATALOG NUMBER: NHRS50UBZ740-VS_25

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1079	845	620	424	282	188	135	101	77	58	42
-25°	1006	771	557	384	261	177	128	96	73	56	41
-27.5°	918	689	488	338	233	165	121	92	70	53	39
-30°	816	607	428	291	204	150	113	87	67	51	37
-32.5°	697	517	366	256	182	135	105	82	64	48	35
-35°	585	433	303	219	163	124	97	77	60	46	34
-37.5°	477	350	257	187	143	113	90	72	56	43	32
-40°	380	279	210	164	128	101	83	67	53	40	30
-42.5°	291	228	177	140	114	93	76	61	49	37	27
-45°	234	183	149	123	101	84	69	56	44	34	25
-47.5°	183	152	126	106	91	76	63	51	40	31	23
-50°	150	126	108	93	80	68	56	46	36	28	21
-52.5°	122	107	93	82	71	60	50	41	32	25	19
-55°	102	91	81	71	62	53	44	36	28	22	17
-57.5°	87	78	70	62	54	46	38	31	25	20	15
-60°	73	67	60	53	46	39	33	27	22	17	13
-62.5°	62	56	50	44	38	33	28	23	18	15	11
-65°	51	46	42	37	32	27	23	19	15	12	9
-67.5°	41	37	33	29	26	22	19	16	13	10	8
-70°	32	29	26	23	20	17	15	12	10	8	6
-72.5°	23	21	19	17	15	13	11	9	8	6	5
-75°	16	15	14	12	11	9	8	7	6	5	4
-77.5°	11	10	9	8	8	7	6	5	4	4	3
-80°	7	7	6	6	5	4	4	4	3	3	2
-82.5°	5	5	4	4	4	3	3	3	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: P731770
 CATALOG NUMBER: NHRS50UBZ740-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°	1	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	2	1	1	0	0	0
50°	3	2	1	1	1	0	0
47.5°	4	3	2	1	1	0	0
45°	5	4	2	1	1	0	0
42.5°	6	4	2	1	1	0	0
40°	8	5	3	2	1	0	0
37.5°	9	6	3	2	1	0	0
35°	11	7	4	2	1	0	0
32.5°	12	8	4	2	1	0	0
30°	14	9	5	3	1	0	0
27.5°	16	10	6	3	1	0	0
25°	18	11	6	3	1	0	0
22.5°	20	12	7	3	1	0	0
20°	22	13	7	4	2	1	0
17.5°	23	14	8	4	2	1	0
15°	25	15	8	4	2	1	0
12.5°	26	16	9	4	2	1	0
10°	27	17	9	4	2	1	0
7.5°	28	18	10	5	2	1	0
5°	30	19	10	5	2	1	0
2.5°	30	19	11	5	2	1	0
0°	31	20	11	5	2	1	0
-2.5°	32	20	11	5	2	1	0
-5°	32	21	11	5	2	1	0
-7.5°	32	21	11	6	2	1	0
-10°	32	21	11	6	2	1	0
-12.5°	32	21	11	6	2	1	0
-15°	31	21	11	6	2	1	0
-17.5°	31	20	11	6	2	1	0
-20°	30	20	11	6	2	1	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	30	20	11	6	2	1	0
-25°	29	19	11	6	2	1	0
-27.5°	28	18	11	5	2	1	0
-30°	27	17	10	5	2	1	0
-32.5°	25	16	10	5	2	1	0
-35°	24	15	9	5	2	1	0
-37.5°	22	14	9	5	2	1	0
-40°	21	14	8	4	2	1	0
-42.5°	19	13	8	4	2	1	0
-45°	18	12	7	4	2	1	0
-47.5°	16	11	7	3	2	1	0
-50°	15	10	6	3	2	1	0
-52.5°	13	9	6	3	1	1	0
-55°	12	8	5	3	1	1	0
-57.5°	11	7	4	2	1	1	0
-60°	9	6	4	2	1	1	0
-62.5°	8	6	3	2	1	1	0
-65°	7	5	3	2	1	0	0
-67.5°	6	4	3	1	1	0	0
-70°	5	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)