

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: P731782

Luminaire Tested: **NHRS50UBZ750_25**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731782
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ750_25
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 5000K @ 25% output
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

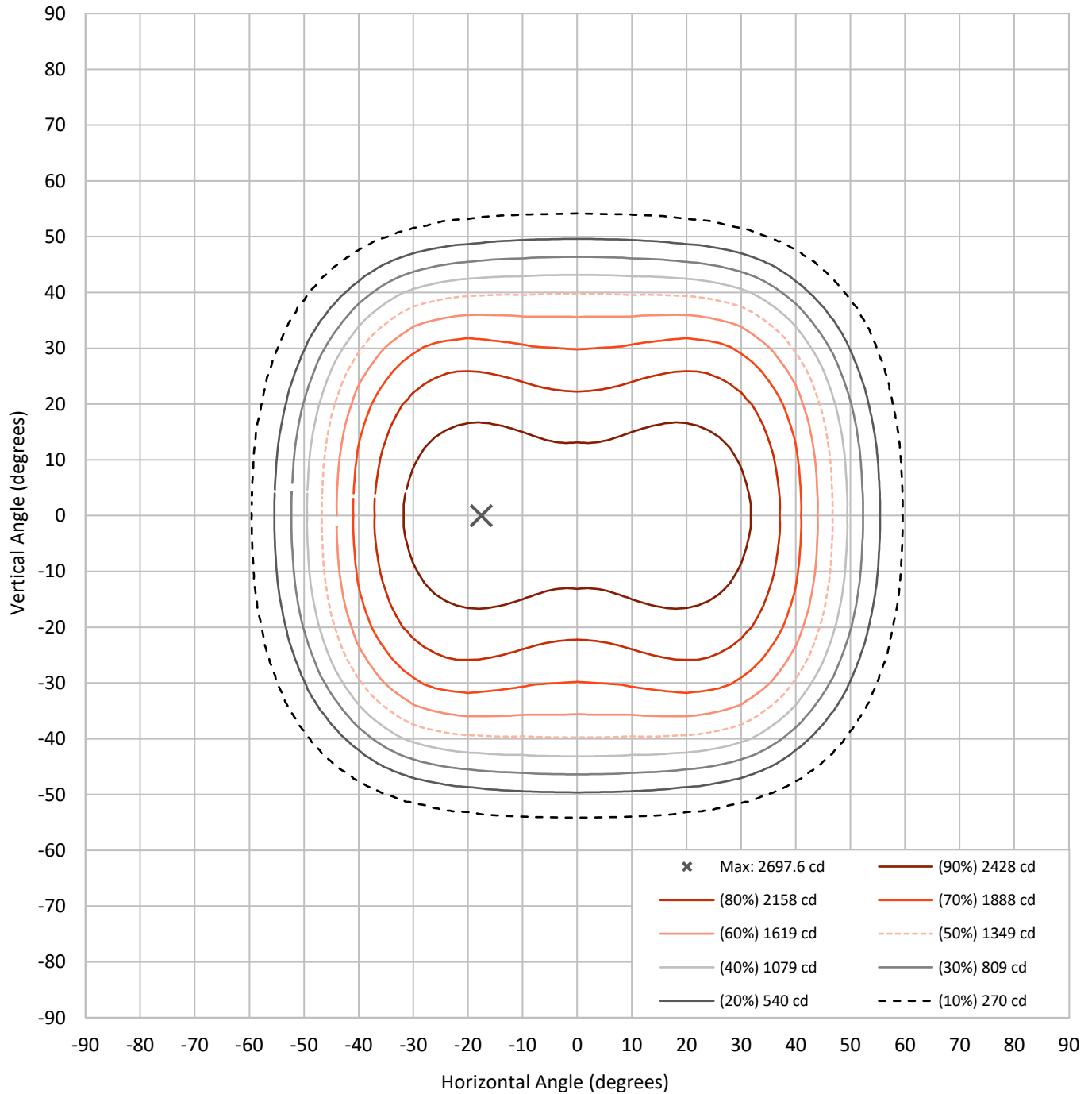
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	4917.7 lumens	Max Intensity:	2697.6 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	131.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')		
Beam Angle (50%):	93.4°H x 78.9°V	Field Angle (10%):	119.2°H x 106.9°V
Beam Lumens:	3937.9 lumens	Field Lumens:	4738.5 lumens
Beam Efficiency:	80.1%	Field Efficiency:	96.4%
Input Watts (W):	37.4		
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		



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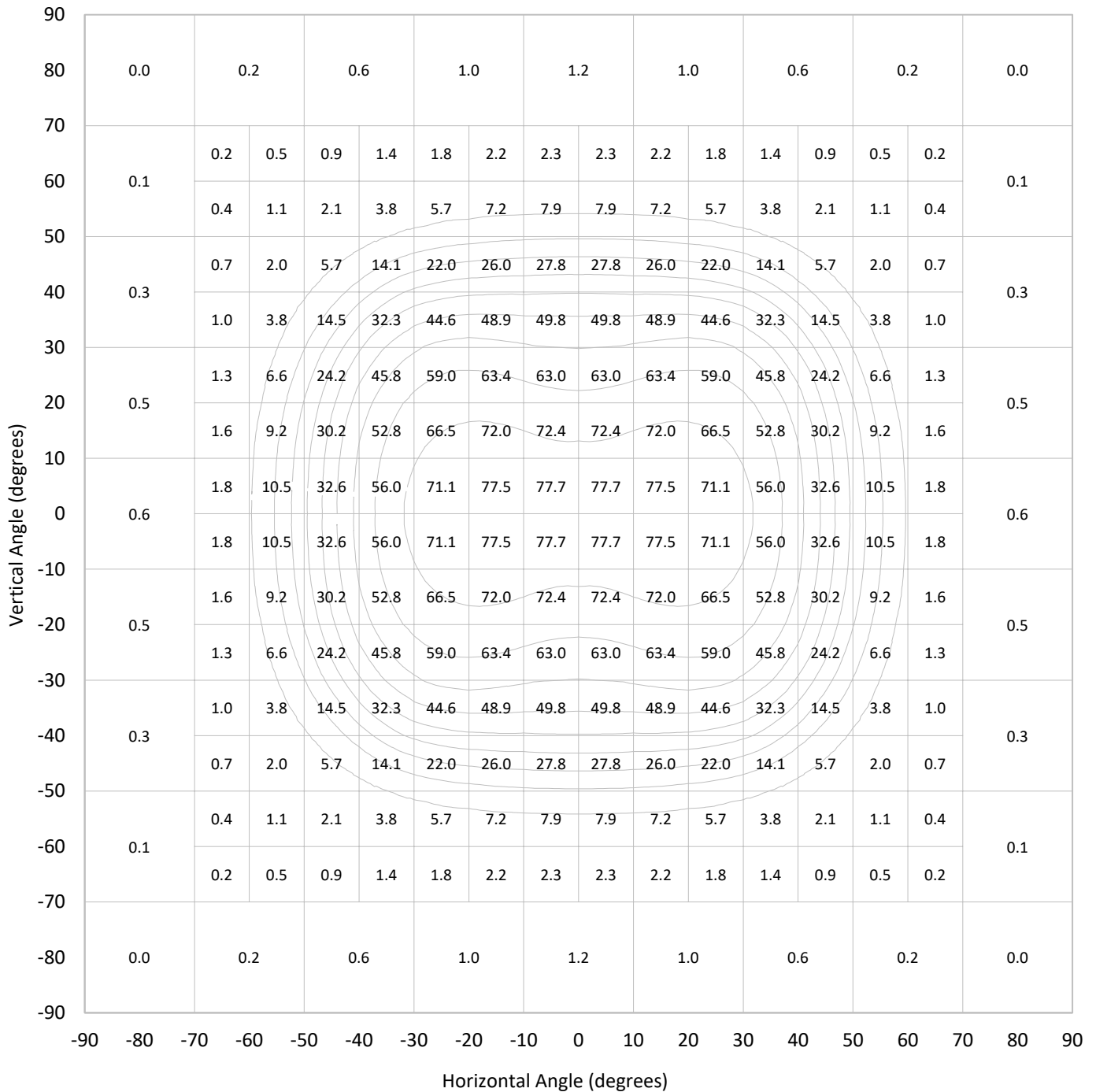
Iso-Candela Plot





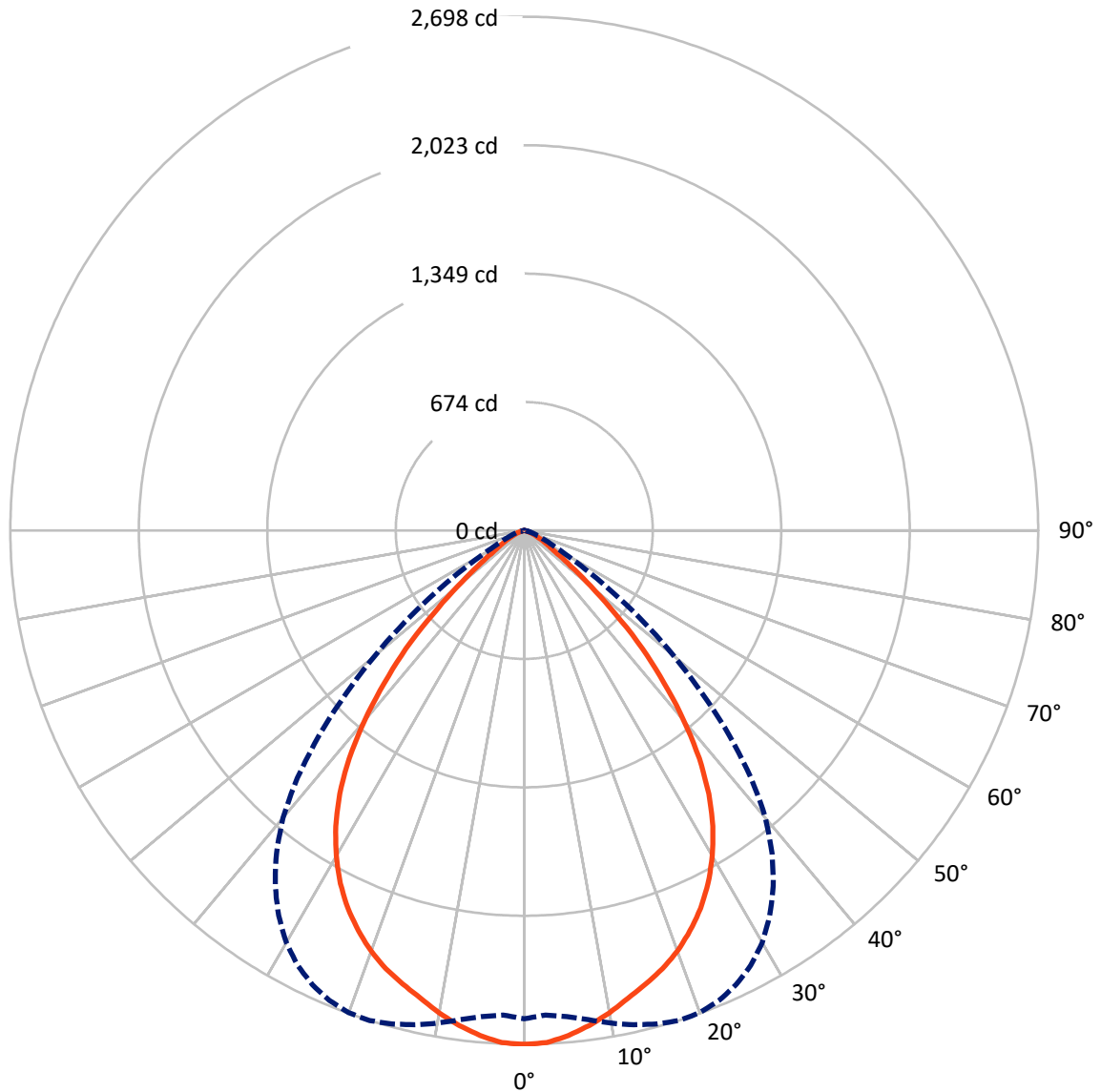
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Lumen Table



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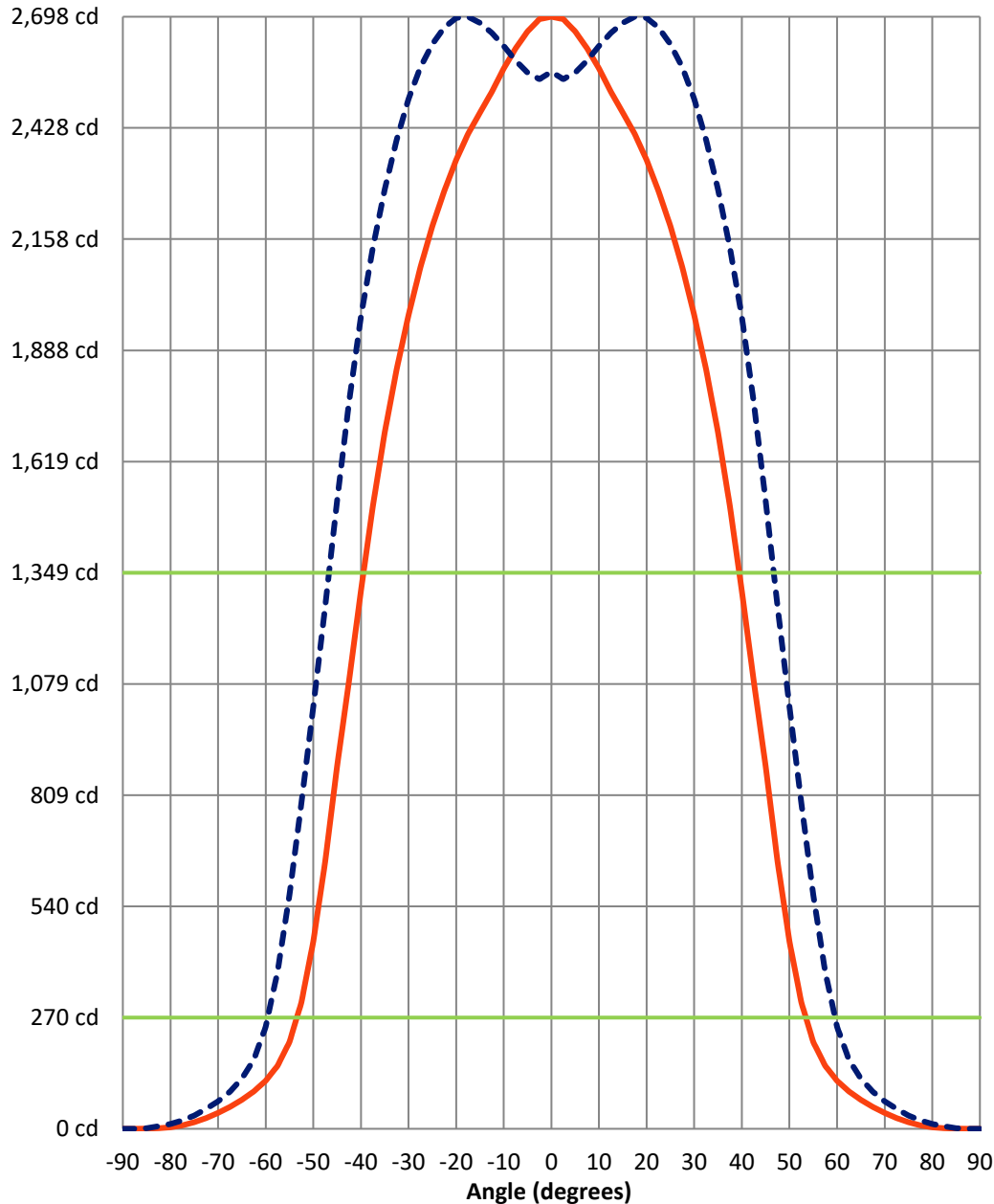
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 93.4°
V Angle: 78.9°
Lumens: 3937.9
Efficiency: 80.1%

Field:
H Angle: 119.2°
V Angle: 106.9°
Lumens: 4738.5
Efficiency: 96.4%

Spill:
Lumens: 179.1
Efficiency: 3.6%

— 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	1	1	1
77.5°	0	0	0	0	0	0	1	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	2	3	4	4
70°	0	0	0	0	1	1	2	3	4	5	7
67.5°	0	0	0	0	1	1	3	5	6	8	10
65°	0	0	0	1	1	2	4	6	8	10	13
62.5°	0	0	0	1	1	3	5	7	10	13	16
60°	0	0	0	1	2	4	6	9	12	16	20
57.5°	0	0	0	1	2	5	7	11	15	19	24
55°	0	0	0	1	3	6	9	13	17	23	29
52.5°	0	0	0	1	4	6	10	15	20	27	34
50°	0	0	1	1	4	7	11	17	23	31	39
47.5°	0	0	1	2	5	9	13	19	27	35	44
45°	0	0	1	2	6	9	14	21	30	39	49
42.5°	0	0	1	3	6	10	16	23	33	43	55
40°	0	0	1	3	7	11	18	26	36	47	60
37.5°	0	0	1	3	7	12	19	28	39	52	66
35°	0	0	1	4	8	13	21	30	42	56	71
32.5°	0	0	1	4	8	14	22	32	45	60	77
30°	0	0	1	5	9	15	23	34	48	63	82
27.5°	0	0	1	5	9	16	25	37	51	67	87
25°	0	0	1	5	10	17	26	39	53	70	92
22.5°	0	0	1	5	10	17	27	41	56	74	97
20°	0	0	1	6	11	18	28	42	58	77	102
17.5°	0	0	1	6	11	19	29	44	60	80	107
15°	0	0	1	6	11	19	30	45	62	83	110
12.5°	0	0	1	6	11	20	31	46	63	84	113
10°	0	0	1	6	11	20	31	47	64	86	116
7.5°	0	0	1	6	12	20	32	48	65	88	118
5°	0	0	1	6	12	21	32	49	67	90	120
2.5°	0	0	1	6	12	20	32	48	67	90	122
0°	0	0	1	6	12	20	32	48	67	90	122
-2.5°	0	0	1	6	12	20	32	48	67	90	122
-5°	0	0	1	6	12	21	32	49	67	90	120
-7.5°	0	0	1	6	12	20	32	48	65	88	118
-10°	0	0	1	6	11	20	31	47	64	86	116
-12.5°	0	0	1	6	11	20	31	46	63	84	113
-15°	0	0	1	6	11	19	30	45	62	83	110
-17.5°	0	0	1	6	11	19	29	44	60	80	107
-20°	0	0	1	6	11	18	28	42	58	77	102



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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	10	17	27	41	56	74	97
-25°	0	0	1	5	10	17	26	39	53	70	92
-27.5°	0	0	1	5	9	16	25	37	51	67	87
-30°	0	0	1	5	9	15	23	34	48	63	82
-32.5°	0	0	1	4	8	14	22	32	45	60	77
-35°	0	0	1	4	8	13	21	30	42	56	71
-37.5°	0	0	1	3	7	12	19	28	39	52	66
-40°	0	0	1	3	7	11	18	26	36	47	60
-42.5°	0	0	1	3	6	10	16	23	33	43	55
-45°	0	0	1	2	6	9	14	21	30	39	49
-47.5°	0	0	1	2	5	9	13	19	27	35	44
-50°	0	0	1	1	4	7	11	17	23	31	39
-52.5°	0	0	0	1	4	6	10	15	20	27	34
-55°	0	0	0	1	3	6	9	13	17	23	29
-57.5°	0	0	0	1	2	5	7	11	15	19	24
-60°	0	0	0	1	2	4	6	9	12	16	20
-62.5°	0	0	0	1	1	3	5	7	10	13	16
-65°	0	0	0	1	1	2	4	6	8	10	13
-67.5°	0	0	0	0	1	1	3	5	6	8	10
-70°	0	0	0	0	1	1	2	3	4	5	7
-72.5°	0	0	0	0	0	1	1	2	3	4	4
-75°	0	0	0	0	0	1	1	1	1	2	3
-77.5°	0	0	0	0	0	0	1	1	1	1	1
-80°	0	0	0	0	0	0	0	0	1	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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 CATALOG NUMBER: NHRS50UBZ750_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	1	1	0	0	0	0	1	1	1	1
80°	1	1	1	1	1	1	2	2	2	2	2
77.5°	2	2	2	3	3	4	4	4	5	5	6
75°	3	4	5	6	6	7	7	8	9	10	11
72.5°	6	7	8	9	10	12	13	14	16	17	19
70°	9	10	12	14	16	18	20	22	24	26	28
67.5°	12	14	17	19	22	25	28	31	34	36	38
65°	16	19	22	26	30	33	37	41	45	48	51
62.5°	20	24	29	33	38	42	47	52	58	62	65
60°	25	30	36	41	47	52	58	65	70	75	81
57.5°	30	37	43	49	56	63	71	78	86	93	100
55°	36	43	51	59	67	76	85	94	103	115	126
52.5°	42	50	59	69	79	90	101	115	130	146	167
50°	48	58	68	80	92	106	123	142	168	194	228
47.5°	54	65	79	92	108	128	150	184	217	270	322
45°	61	74	88	107	127	153	192	234	302	369	459
42.5°	68	83	101	121	151	191	239	319	404	507	621
40°	75	91	113	143	180	235	316	411	534	666	809
37.5°	82	103	127	163	221	297	401	528	676	843	991
35°	89	113	145	191	261	370	500	649	824	1009	1175
32.5°	98	124	162	223	316	446	603	780	971	1167	1348
30°	106	137	181	253	373	527	711	905	1111	1309	1488
27.5°	114	151	207	296	429	603	807	1026	1239	1440	1617
25°	121	162	231	340	492	682	898	1124	1356	1554	1724
22.5°	129	173	251	380	550	757	980	1211	1445	1657	1823
20°	137	189	276	415	600	824	1050	1288	1520	1728	1901
17.5°	144	203	302	454	650	880	1109	1364	1589	1795	1961
15°	150	215	325	486	692	924	1160	1407	1645	1852	2017
12.5°	155	225	343	512	726	959	1200	1449	1687	1894	2056
10°	159	232	356	533	751	985	1229	1481	1719	1923	2085
7.5°	163	238	366	547	768	1003	1247	1503	1741	1946	2109
5°	165	243	375	559	781	1015	1258	1514	1753	1961	2127
2.5°	167	247	382	569	793	1028	1272	1530	1768	1975	2141
0°	168	248	382	568	790	1024	1267	1523	1762	1970	2137
-2.5°	167	247	382	569	793	1028	1272	1530	1768	1975	2141
-5°	165	243	375	559	781	1015	1258	1514	1753	1961	2127
-7.5°	163	238	366	547	768	1003	1247	1503	1741	1946	2109
-10°	159	232	356	533	751	985	1229	1481	1719	1923	2085
-12.5°	155	225	343	512	726	959	1200	1449	1687	1894	2056
-15°	150	215	325	486	692	924	1160	1407	1645	1852	2017
-17.5°	144	203	302	454	650	880	1109	1364	1589	1795	1961
-20°	137	189	276	415	600	824	1050	1288	1520	1728	1901



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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	173	251	380	550	757	980	1211	1445	1657	1823
-25°	121	162	231	340	492	682	898	1124	1356	1554	1724
-27.5°	114	151	207	296	429	603	807	1026	1239	1440	1617
-30°	106	137	181	253	373	527	711	905	1111	1309	1488
-32.5°	98	124	162	223	316	446	603	780	971	1167	1348
-35°	89	113	145	191	261	370	500	649	824	1009	1175
-37.5°	82	103	127	163	221	297	401	528	676	843	991
-40°	75	91	113	143	180	235	316	411	534	666	809
-42.5°	68	83	101	121	151	191	239	319	404	507	621
-45°	61	74	88	107	127	153	192	234	302	369	459
-47.5°	54	65	79	92	108	128	150	184	217	270	322
-50°	48	58	68	80	92	106	123	142	168	194	228
-52.5°	42	50	59	69	79	90	101	115	130	146	167
-55°	36	43	51	59	67	76	85	94	103	115	126
-57.5°	30	37	43	49	56	63	71	78	86	93	100
-60°	25	30	36	41	47	52	58	65	70	75	81
-62.5°	20	24	29	33	38	42	47	52	58	62	65
-65°	16	19	22	26	30	33	37	41	45	48	51
-67.5°	12	14	17	19	22	25	28	31	34	36	38
-70°	9	10	12	14	16	18	20	22	24	26	28
-72.5°	6	7	8	9	10	12	13	14	16	17	19
-75°	3	4	5	6	6	7	7	8	9	10	11
-77.5°	2	2	2	3	3	4	4	4	5	5	6
-80°	1	1	1	1	1	1	2	2	2	2	2
-82.5°	0	1	1	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°	3	3	3	3	3	4	4	4	4	4	4
77.5°	6	6	7	7	8	8	8	8	8	8	8
75°	12	12	13	14	15	15	16	16	16	16	16
72.5°	20	21	22	23	24	25	25	26	26	27	27
70°	29	31	32	34	35	37	38	39	39	40	40
67.5°	41	43	45	47	49	50	52	53	54	55	55
65°	54	57	60	62	64	66	68	70	72	73	73
62.5°	69	73	76	79	83	85	88	91	92	94	95
60°	86	91	96	101	105	108	113	117	119	120	122
57.5°	108	114	121	130	137	142	147	153	156	158	160
55°	139	151	159	174	187	194	199	211	217	219	224
52.5°	185	209	227	245	270	284	288	307	320	326	334
50°	265	299	339	366	401	425	434	455	474	482	492
47.5°	388	441	498	543	582	614	630	649	670	681	691
45°	549	630	695	753	798	831	853	879	890	899	904
42.5°	739	838	914	974	1019	1056	1078	1086	1106	1113	1113
40°	936	1054	1133	1196	1241	1277	1297	1304	1316	1320	1314
37.5°	1131	1256	1347	1410	1454	1489	1505	1510	1514	1512	1503
35°	1318	1439	1547	1604	1648	1675	1690	1689	1682	1679	1667
32.5°	1486	1608	1705	1776	1816	1835	1853	1842	1829	1818	1803
30°	1643	1752	1842	1919	1956	1973	1980	1974	1957	1938	1920
27.5°	1762	1877	1964	2028	2076	2092	2093	2090	2071	2047	2026
25°	1866	1981	2063	2122	2166	2192	2194	2190	2172	2148	2122
22.5°	1955	2062	2146	2206	2243	2270	2282	2275	2263	2238	2208
20°	2035	2141	2213	2272	2313	2338	2352	2350	2339	2318	2291
17.5°	2093	2197	2273	2332	2373	2396	2409	2413	2403	2388	2367
15°	2143	2245	2326	2385	2425	2450	2462	2465	2460	2447	2430
12.5°	2182	2286	2370	2434	2477	2501	2513	2516	2511	2500	2485
10°	2215	2322	2408	2474	2520	2549	2567	2572	2563	2549	2533
7.5°	2242	2352	2443	2513	2562	2594	2613	2621	2617	2599	2578
5°	2263	2378	2472	2544	2597	2634	2655	2662	2654	2640	2620
2.5°	2280	2399	2498	2572	2628	2666	2689	2692	2679	2660	2633
0°	2278	2399	2498	2575	2631	2671	2695	2698	2683	2658	2627
-2.5°	2280	2399	2498	2572	2628	2666	2689	2692	2679	2660	2633
-5°	2263	2378	2472	2544	2597	2634	2655	2662	2654	2640	2620
-7.5°	2242	2352	2443	2513	2562	2594	2613	2621	2617	2599	2578
-10°	2215	2322	2408	2474	2520	2549	2567	2572	2563	2549	2533
-12.5°	2182	2286	2370	2434	2477	2501	2513	2516	2511	2500	2485
-15°	2143	2245	2326	2385	2425	2450	2462	2465	2460	2447	2430
-17.5°	2093	2197	2273	2332	2373	2396	2409	2413	2403	2388	2367
-20°	2035	2141	2213	2272	2313	2338	2352	2350	2339	2318	2291



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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°	1955	2062	2146	2206	2243	2270	2282	2275	2263	2238	2208
-25°	1866	1981	2063	2122	2166	2192	2194	2190	2172	2148	2122
-27.5°	1762	1877	1964	2028	2076	2092	2093	2090	2071	2047	2026
-30°	1643	1752	1842	1919	1956	1973	1980	1974	1957	1938	1920
-32.5°	1486	1608	1705	1776	1816	1835	1853	1842	1829	1818	1803
-35°	1318	1439	1547	1604	1648	1675	1690	1689	1682	1679	1667
-37.5°	1131	1256	1347	1410	1454	1489	1505	1510	1514	1512	1503
-40°	936	1054	1133	1196	1241	1277	1297	1304	1316	1320	1314
-42.5°	739	838	914	974	1019	1056	1078	1086	1106	1113	1113
-45°	549	630	695	753	798	831	853	879	890	899	904
-47.5°	388	441	498	543	582	614	630	649	670	681	691
-50°	265	299	339	366	401	425	434	455	474	482	492
-52.5°	185	209	227	245	270	284	288	307	320	326	334
-55°	139	151	159	174	187	194	199	211	217	219	224
-57.5°	108	114	121	130	137	142	147	153	156	158	160
-60°	86	91	96	101	105	108	113	117	119	120	122
-62.5°	69	73	76	79	83	85	88	91	92	94	95
-65°	54	57	60	62	64	66	68	70	72	73	73
-67.5°	41	43	45	47	49	50	52	53	54	55	55
-70°	29	31	32	34	35	37	38	39	39	40	40
-72.5°	20	21	22	23	24	25	25	26	26	27	27
-75°	12	12	13	14	15	15	16	16	16	16	16
-77.5°	6	6	7	7	8	8	8	8	8	8	8
-80°	3	3	3	3	3	4	4	4	4	4	4
-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



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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°	4	4	4	4	4	4	4	4	4	4	4
77.5°	8	8	8	8	8	8	8	8	8	8	8
75°	16	16	16	16	16	16	16	16	16	16	16
72.5°	27	27	27	27	27	27	27	27	27	26	26
70°	40	41	41	40	41	41	40	40	40	39	39
67.5°	56	56	56	56	56	56	56	55	55	54	53
65°	74	74	74	74	74	74	74	73	73	72	70
62.5°	95	95	96	96	96	95	95	95	94	92	91
60°	123	123	124	124	124	123	123	122	120	119	117
57.5°	162	161	163	163	163	161	162	160	158	156	153
55°	226	226	228	229	228	226	226	224	219	217	211
52.5°	339	339	344	344	344	339	339	334	326	320	307
50°	500	502	507	507	507	502	500	492	482	474	455
47.5°	703	704	711	710	711	704	703	691	681	670	649
45°	917	922	929	928	929	922	917	904	899	890	879
42.5°	1126	1129	1134	1133	1134	1129	1126	1113	1113	1106	1086
40°	1324	1327	1332	1331	1332	1327	1324	1314	1320	1316	1304
37.5°	1507	1509	1511	1510	1511	1509	1507	1503	1512	1514	1510
35°	1662	1663	1662	1656	1662	1663	1662	1667	1679	1682	1689
32.5°	1788	1786	1782	1776	1782	1786	1788	1803	1818	1829	1842
30°	1897	1894	1886	1880	1886	1894	1897	1920	1938	1957	1974
27.5°	2001	1992	1979	1976	1979	1992	2001	2026	2047	2071	2090
25°	2096	2080	2068	2063	2068	2080	2096	2122	2148	2172	2190
22.5°	2184	2164	2154	2148	2154	2164	2184	2208	2238	2263	2275
20°	2266	2245	2238	2234	2238	2245	2266	2291	2318	2339	2350
17.5°	2340	2323	2318	2316	2318	2323	2340	2367	2388	2403	2413
15°	2406	2391	2384	2386	2384	2391	2406	2430	2447	2460	2465
12.5°	2466	2446	2439	2443	2439	2446	2466	2485	2500	2511	2516
10°	2517	2496	2486	2490	2486	2496	2517	2533	2549	2563	2572
7.5°	2558	2542	2529	2539	2529	2542	2558	2578	2599	2617	2621
5°	2590	2570	2556	2564	2556	2570	2590	2620	2640	2654	2662
2.5°	2604	2586	2568	2568	2568	2586	2604	2633	2660	2679	2692
0°	2591	2562	2546	2564	2546	2562	2591	2627	2658	2683	2698
-2.5°	2604	2586	2568	2568	2568	2586	2604	2633	2660	2679	2692
-5°	2590	2570	2556	2564	2556	2570	2590	2620	2640	2654	2662
-7.5°	2558	2542	2529	2539	2529	2542	2558	2578	2599	2617	2621
-10°	2517	2496	2486	2490	2486	2496	2517	2533	2549	2563	2572
-12.5°	2466	2446	2439	2443	2439	2446	2466	2485	2500	2511	2516
-15°	2406	2391	2384	2386	2384	2391	2406	2430	2447	2460	2465
-17.5°	2340	2323	2318	2316	2318	2323	2340	2367	2388	2403	2413
-20°	2266	2245	2238	2234	2238	2245	2266	2291	2318	2339	2350



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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°	2184	2164	2154	2148	2154	2164	2184	2208	2238	2263	2275
-25°	2096	2080	2068	2063	2068	2080	2096	2122	2148	2172	2190
-27.5°	2001	1992	1979	1976	1979	1992	2001	2026	2047	2071	2090
-30°	1897	1894	1886	1880	1886	1894	1897	1920	1938	1957	1974
-32.5°	1788	1786	1782	1776	1782	1786	1788	1803	1818	1829	1842
-35°	1662	1663	1662	1656	1662	1663	1662	1667	1679	1682	1689
-37.5°	1507	1509	1511	1510	1511	1509	1507	1503	1512	1514	1510
-40°	1324	1327	1332	1331	1332	1327	1324	1314	1320	1316	1304
-42.5°	1126	1129	1134	1133	1134	1129	1126	1113	1113	1106	1086
-45°	917	922	929	928	929	922	917	904	899	890	879
-47.5°	703	704	711	710	711	704	703	691	681	670	649
-50°	500	502	507	507	507	502	500	492	482	474	455
-52.5°	339	339	344	344	344	339	339	334	326	320	307
-55°	226	226	228	229	228	226	226	224	219	217	211
-57.5°	162	161	163	163	163	161	162	160	158	156	153
-60°	123	123	124	124	124	123	123	122	120	119	117
-62.5°	95	95	96	96	96	95	95	95	94	92	91
-65°	74	74	74	74	74	74	74	73	73	72	70
-67.5°	56	56	56	56	56	56	56	55	55	54	53
-70°	40	41	41	40	41	41	40	40	40	39	39
-72.5°	27	27	27	27	27	27	27	27	27	26	26
-75°	16	16	16	16	16	16	16	16	16	16	16
-77.5°	8	8	8	8	8	8	8	8	8	8	8
-80°	4	4	4	4	4	4	4	4	4	4	4
-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



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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°	4	4	3	3	3	3	3	2	2	2	2
77.5°	8	8	8	7	7	6	6	6	5	5	4
75°	16	15	15	14	13	12	12	11	10	9	8
72.5°	25	25	24	23	22	21	20	19	17	16	14
70°	38	37	35	34	32	31	29	28	26	24	22
67.5°	52	50	49	47	45	43	41	38	36	34	31
65°	68	66	64	62	60	57	54	51	48	45	41
62.5°	88	85	83	79	76	73	69	65	62	58	52
60°	113	108	105	101	96	91	86	81	75	70	65
57.5°	147	142	137	130	121	114	108	100	93	86	78
55°	199	194	187	174	159	151	139	126	115	103	94
52.5°	288	284	270	245	227	209	185	167	146	130	115
50°	434	425	401	366	339	299	265	228	194	168	142
47.5°	630	614	582	543	498	441	388	322	270	217	184
45°	853	831	798	753	695	630	549	459	369	302	234
42.5°	1078	1056	1019	974	914	838	739	621	507	404	319
40°	1297	1277	1241	1196	1133	1054	936	809	666	534	411
37.5°	1505	1489	1454	1410	1347	1256	1131	991	843	676	528
35°	1690	1675	1648	1604	1547	1439	1318	1175	1009	824	649
32.5°	1853	1835	1816	1776	1705	1608	1486	1348	1167	971	780
30°	1980	1973	1956	1919	1842	1752	1643	1488	1309	1111	905
27.5°	2093	2092	2076	2028	1964	1877	1762	1617	1440	1239	1026
25°	2194	2192	2166	2122	2063	1981	1866	1724	1554	1356	1124
22.5°	2282	2270	2243	2206	2146	2062	1955	1823	1657	1445	1211
20°	2352	2338	2313	2272	2213	2141	2035	1901	1728	1520	1288
17.5°	2409	2396	2373	2332	2273	2197	2093	1961	1795	1589	1364
15°	2462	2450	2425	2385	2326	2245	2143	2017	1852	1645	1407
12.5°	2513	2501	2477	2434	2370	2286	2182	2056	1894	1687	1449
10°	2567	2549	2520	2474	2408	2322	2215	2085	1923	1719	1481
7.5°	2613	2594	2562	2513	2443	2352	2242	2109	1946	1741	1503
5°	2655	2634	2597	2544	2472	2378	2263	2127	1961	1753	1514
2.5°	2689	2666	2628	2572	2498	2399	2280	2141	1975	1768	1530
0°	2695	2671	2631	2575	2498	2399	2278	2137	1970	1762	1523
-2.5°	2689	2666	2628	2572	2498	2399	2280	2141	1975	1768	1530
-5°	2655	2634	2597	2544	2472	2378	2263	2127	1961	1753	1514
-7.5°	2613	2594	2562	2513	2443	2352	2242	2109	1946	1741	1503
-10°	2567	2549	2520	2474	2408	2322	2215	2085	1923	1719	1481
-12.5°	2513	2501	2477	2434	2370	2286	2182	2056	1894	1687	1449
-15°	2462	2450	2425	2385	2326	2245	2143	2017	1852	1645	1407
-17.5°	2409	2396	2373	2332	2273	2197	2093	1961	1795	1589	1364
-20°	2352	2338	2313	2272	2213	2141	2035	1901	1728	1520	1288



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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°	2282	2270	2243	2206	2146	2062	1955	1823	1657	1445	1211
-25°	2194	2192	2166	2122	2063	1981	1866	1724	1554	1356	1124
-27.5°	2093	2092	2076	2028	1964	1877	1762	1617	1440	1239	1026
-30°	1980	1973	1956	1919	1842	1752	1643	1488	1309	1111	905
-32.5°	1853	1835	1816	1776	1705	1608	1486	1348	1167	971	780
-35°	1690	1675	1648	1604	1547	1439	1318	1175	1009	824	649
-37.5°	1505	1489	1454	1410	1347	1256	1131	991	843	676	528
-40°	1297	1277	1241	1196	1133	1054	936	809	666	534	411
-42.5°	1078	1056	1019	974	914	838	739	621	507	404	319
-45°	853	831	798	753	695	630	549	459	369	302	234
-47.5°	630	614	582	543	498	441	388	322	270	217	184
-50°	434	425	401	366	339	299	265	228	194	168	142
-52.5°	288	284	270	245	227	209	185	167	146	130	115
-55°	199	194	187	174	159	151	139	126	115	103	94
-57.5°	147	142	137	130	121	114	108	100	93	86	78
-60°	113	108	105	101	96	91	86	81	75	70	65
-62.5°	88	85	83	79	76	73	69	65	62	58	52
-65°	68	66	64	62	60	57	54	51	48	45	41
-67.5°	52	50	49	47	45	43	41	38	36	34	31
-70°	38	37	35	34	32	31	29	28	26	24	22
-72.5°	25	25	24	23	22	21	20	19	17	16	14
-75°	16	15	15	14	13	12	12	11	10	9	8
-77.5°	8	8	8	7	7	6	6	6	5	5	4
-80°	4	4	3	3	3	3	3	2	2	2	2
-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



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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	1	1	0	0	0	0	0
80°	2	1	1	1	1	1	1	1	1	1	0
77.5°	4	4	3	3	2	2	2	1	1	1	1
75°	7	7	6	6	5	4	3	3	2	1	1
72.5°	13	12	10	9	8	7	6	4	4	3	2
70°	20	18	16	14	12	10	9	7	5	4	3
67.5°	28	25	22	19	17	14	12	10	8	6	5
65°	37	33	30	26	22	19	16	13	10	8	6
62.5°	47	42	38	33	29	24	20	16	13	10	7
60°	58	52	47	41	36	30	25	20	16	12	9
57.5°	71	63	56	49	43	37	30	24	19	15	11
55°	85	76	67	59	51	43	36	29	23	17	13
52.5°	101	90	79	69	59	50	42	34	27	20	15
50°	123	106	92	80	68	58	48	39	31	23	17
47.5°	150	128	108	92	79	65	54	44	35	27	19
45°	192	153	127	107	88	74	61	49	39	30	21
42.5°	239	191	151	121	101	83	68	55	43	33	23
40°	316	235	180	143	113	91	75	60	47	36	26
37.5°	401	297	221	163	127	103	82	66	52	39	28
35°	500	370	261	191	145	113	89	71	56	42	30
32.5°	603	446	316	223	162	124	98	77	60	45	32
30°	711	527	373	253	181	137	106	82	63	48	34
27.5°	807	603	429	296	207	151	114	87	67	51	37
25°	898	682	492	340	231	162	121	92	70	53	39
22.5°	980	757	550	380	251	173	129	97	74	56	41
20°	1050	824	600	415	276	189	137	102	77	58	42
17.5°	1109	880	650	454	302	203	144	107	80	60	44
15°	1160	924	692	486	325	215	150	110	83	62	45
12.5°	1200	959	726	512	343	225	155	113	84	63	46
10°	1229	985	751	533	356	232	159	116	86	64	47
7.5°	1247	1003	768	547	366	238	163	118	88	65	48
5°	1258	1015	781	559	375	243	165	120	90	67	49
2.5°	1272	1028	793	569	382	247	167	122	90	67	48
0°	1267	1024	790	568	382	248	168	122	90	67	48
-2.5°	1272	1028	793	569	382	247	167	122	90	67	48
-5°	1258	1015	781	559	375	243	165	120	90	67	49
-7.5°	1247	1003	768	547	366	238	163	118	88	65	48
-10°	1229	985	751	533	356	232	159	116	86	64	47
-12.5°	1200	959	726	512	343	225	155	113	84	63	46
-15°	1160	924	692	486	325	215	150	110	83	62	45
-17.5°	1109	880	650	454	302	203	144	107	80	60	44
-20°	1050	824	600	415	276	189	137	102	77	58	42



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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°	980	757	550	380	251	173	129	97	74	56	41
-25°	898	682	492	340	231	162	121	92	70	53	39
-27.5°	807	603	429	296	207	151	114	87	67	51	37
-30°	711	527	373	253	181	137	106	82	63	48	34
-32.5°	603	446	316	223	162	124	98	77	60	45	32
-35°	500	370	261	191	145	113	89	71	56	42	30
-37.5°	401	297	221	163	127	103	82	66	52	39	28
-40°	316	235	180	143	113	91	75	60	47	36	26
-42.5°	239	191	151	121	101	83	68	55	43	33	23
-45°	192	153	127	107	88	74	61	49	39	30	21
-47.5°	150	128	108	92	79	65	54	44	35	27	19
-50°	123	106	92	80	68	58	48	39	31	23	17
-52.5°	101	90	79	69	59	50	42	34	27	20	15
-55°	85	76	67	59	51	43	36	29	23	17	13
-57.5°	71	63	56	49	43	37	30	24	19	15	11
-60°	58	52	47	41	36	30	25	20	16	12	9
-62.5°	47	42	38	33	29	24	20	16	13	10	7
-65°	37	33	30	26	22	19	16	13	10	8	6
-67.5°	28	25	22	19	17	14	12	10	8	6	5
-70°	20	18	16	14	12	10	9	7	5	4	3
-72.5°	13	12	10	9	8	7	6	4	4	3	2
-75°	7	7	6	6	5	4	3	3	2	1	1
-77.5°	4	4	3	3	2	2	2	1	1	1	1
-80°	2	1	1	1	1	1	1	1	1	1	0
-82.5°	0	0	0	0	1	1	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):

	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°	1	0	0	0	0	0	0
75°	1	1	0	0	0	0	0
72.5°	1	1	0	0	0	0	0
70°	2	1	1	0	0	0	0
67.5°	3	1	1	0	0	0	0
65°	4	2	1	1	0	0	0
62.5°	5	3	1	1	0	0	0
60°	6	4	2	1	0	0	0
57.5°	7	5	2	1	0	0	0
55°	9	6	3	1	0	0	0
52.5°	10	6	4	1	0	0	0
50°	11	7	4	1	1	0	0
47.5°	13	9	5	2	1	0	0
45°	14	9	6	2	1	0	0
42.5°	16	10	6	3	1	0	0
40°	18	11	7	3	1	0	0
37.5°	19	12	7	3	1	0	0
35°	21	13	8	4	1	0	0
32.5°	22	14	8	4	1	0	0
30°	23	15	9	5	1	0	0
27.5°	25	16	9	5	1	0	0
25°	26	17	10	5	1	0	0
22.5°	27	17	10	5	1	0	0
20°	28	18	11	6	1	0	0
17.5°	29	19	11	6	1	0	0
15°	30	19	11	6	1	0	0
12.5°	31	20	11	6	1	0	0
10°	31	20	11	6	1	0	0
7.5°	32	20	12	6	1	0	0
5°	32	21	12	6	1	0	0
2.5°	32	20	12	6	1	0	0
0°	32	20	12	6	1	0	0
-2.5°	32	20	12	6	1	0	0
-5°	32	21	12	6	1	0	0
-7.5°	32	20	12	6	1	0	0
-10°	31	20	11	6	1	0	0
-12.5°	31	20	11	6	1	0	0
-15°	30	19	11	6	1	0	0
-17.5°	29	19	11	6	1	0	0
-20°	28	18	11	6	1	0	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	27	17	10	5	1	0	0
-25°	26	17	10	5	1	0	0
-27.5°	25	16	9	5	1	0	0
-30°	23	15	9	5	1	0	0
-32.5°	22	14	8	4	1	0	0
-35°	21	13	8	4	1	0	0
-37.5°	19	12	7	3	1	0	0
-40°	18	11	7	3	1	0	0
-42.5°	16	10	6	3	1	0	0
-45°	14	9	6	2	1	0	0
-47.5°	13	9	5	2	1	0	0
-50°	11	7	4	1	1	0	0
-52.5°	10	6	4	1	0	0	0
-55°	9	6	3	1	0	0	0
-57.5°	7	5	2	1	0	0	0
-60°	6	4	2	1	0	0	0
-62.5°	5	3	1	1	0	0	0
-65°	4	2	1	1	0	0	0
-67.5°	3	1	1	0	0	0	0
-70°	2	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°	1	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)