

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: P731774

Luminaire Tested: **NHRS50UBZ740_25**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731774
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ740_25
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 4000K @ 25% output
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

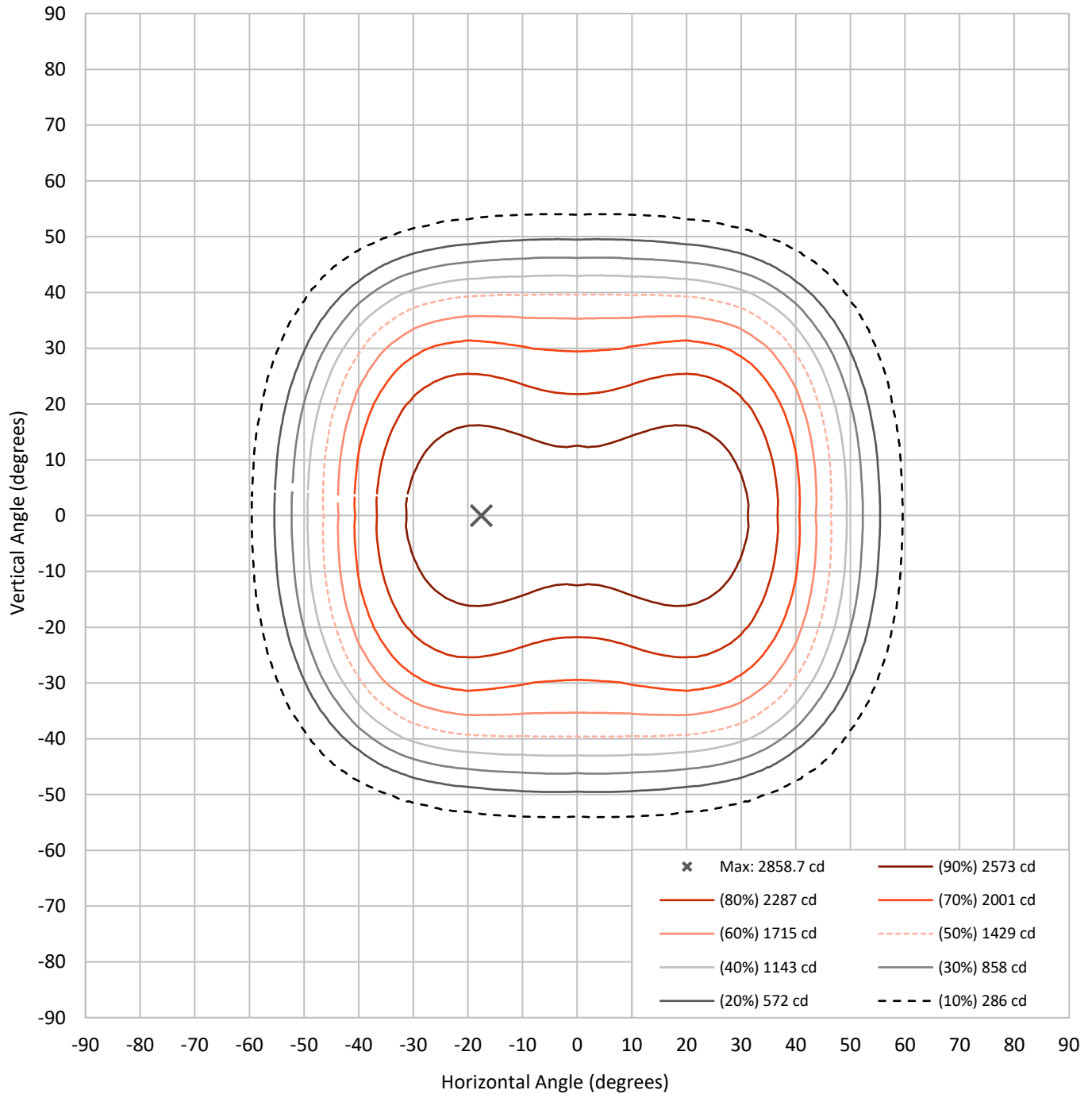
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	5173.2 lumens	Max Intensity:	2858.7 candela
Efficiency:	N/A	Max Intensity Angle:	-17.5°H x 0°V
Efficacy:	142.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 0.5' x H: 0')		
Beam Angle (50%):	92.8°H x 78.8°V	Field Angle (10%):	119.1°H x 106.8°V
Beam Lumens:	4144 lumens	Field Lumens:	4984.6 lumens
Beam Efficiency:	80.1%	Field Efficiency:	96.4%
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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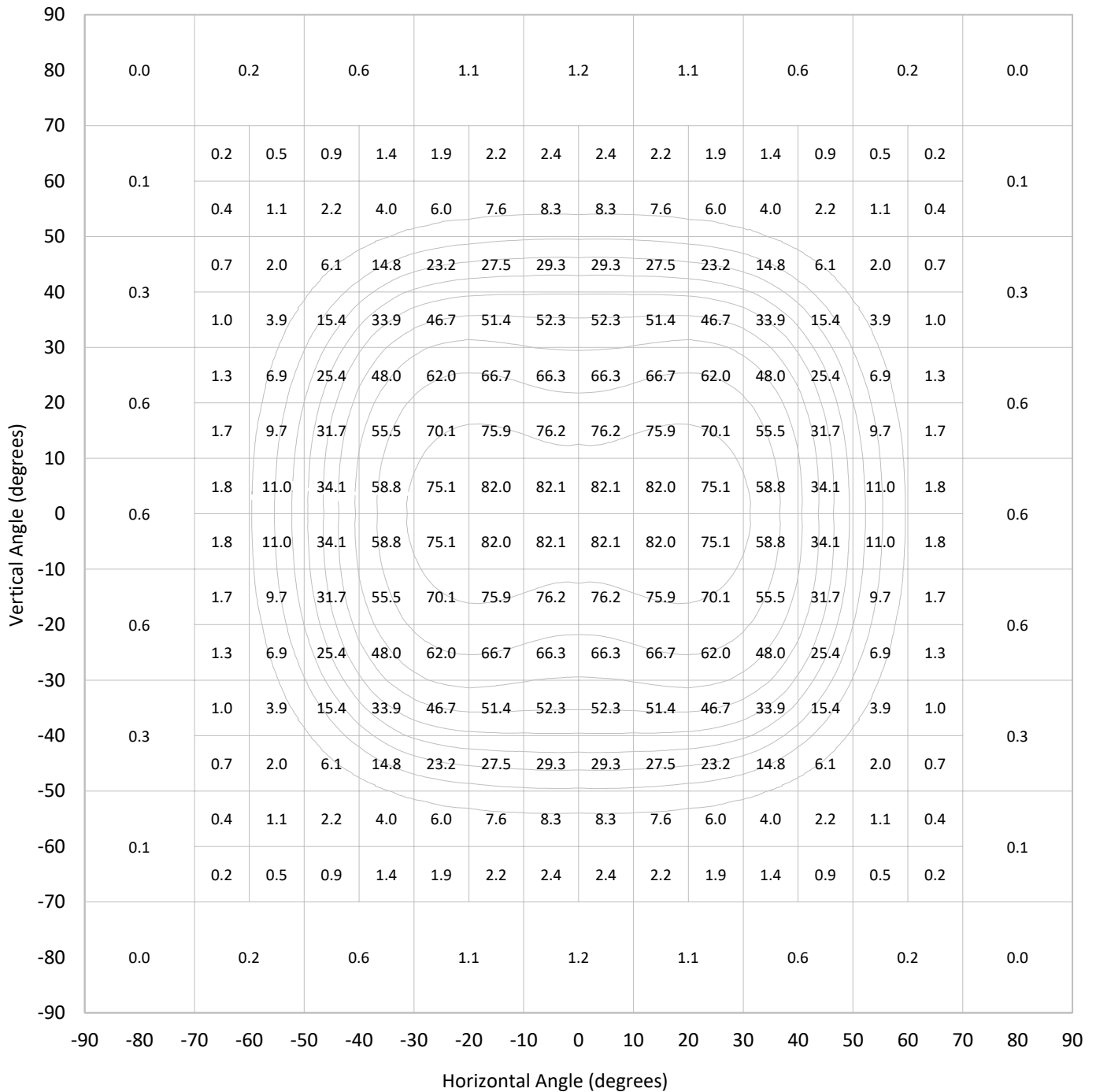
Iso-Candela Plot





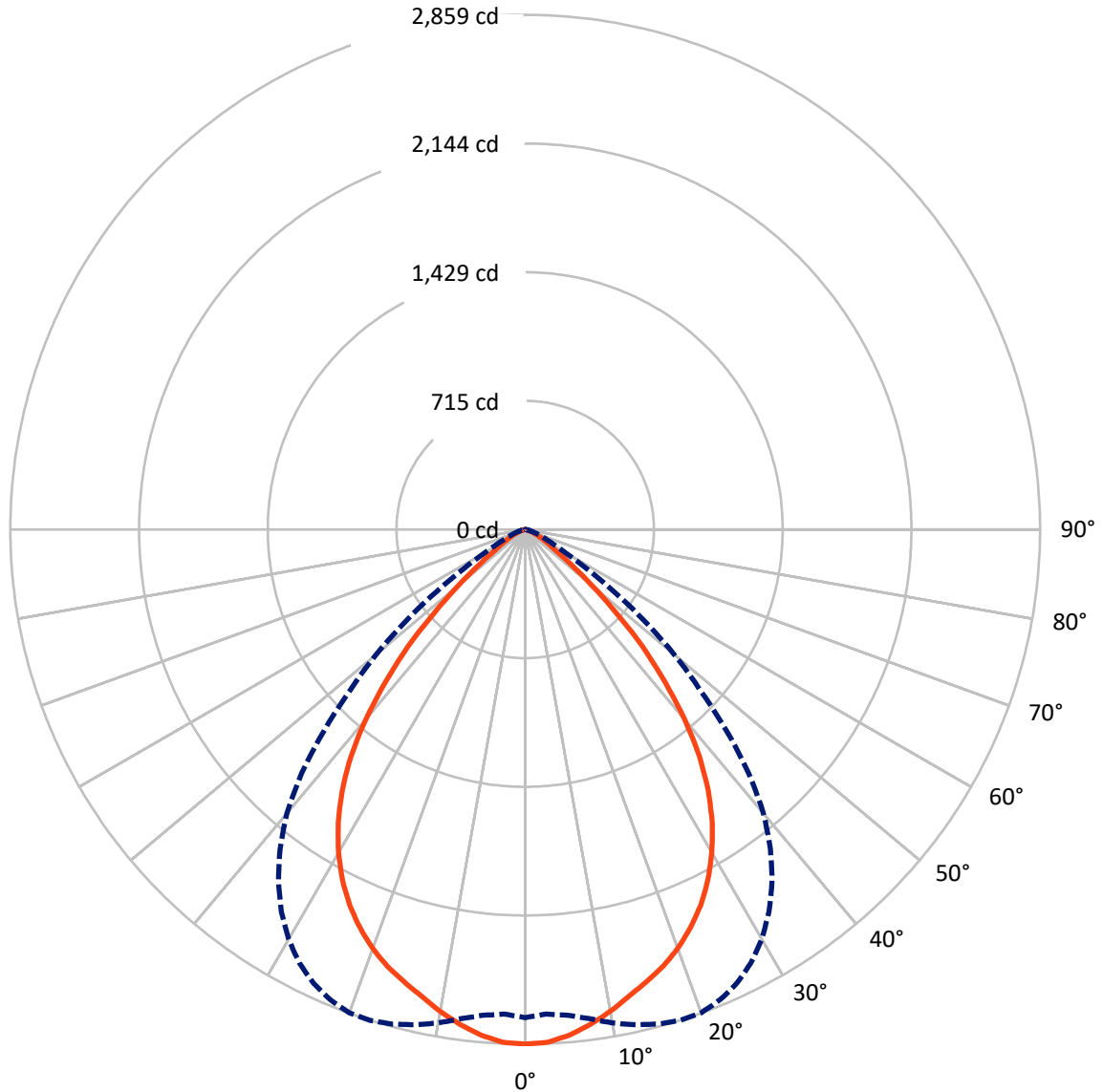
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Lumen Table



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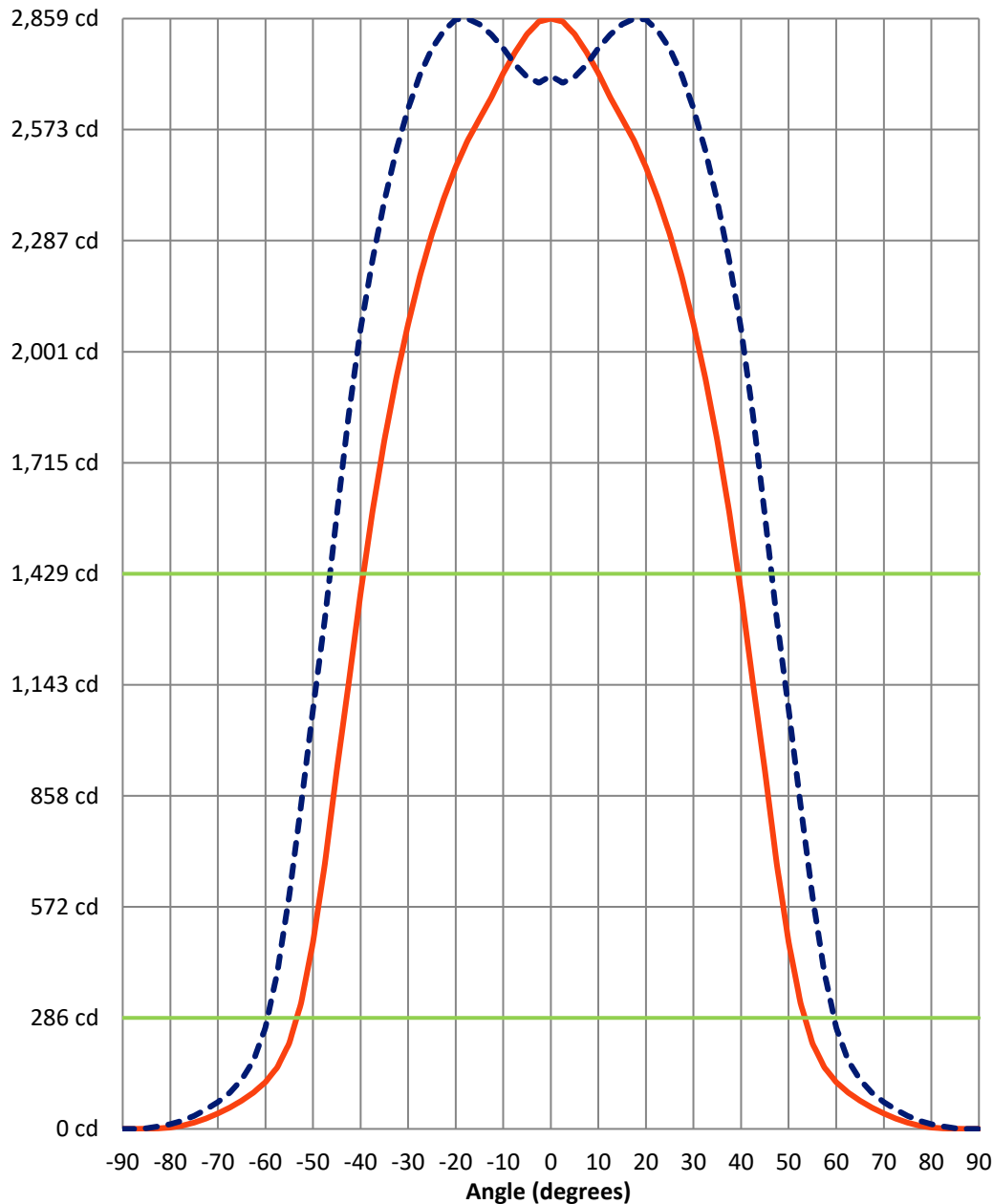
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 92.8°
V Angle: 78.8°
Lumens: 4144
Efficiency: 80.1%

Field:
H Angle: 119.1°
V Angle: 106.8°
Lumens: 4984.6
Efficiency: 96.4%

Spill:
Lumens: 188.5
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	5
70°	0	0	0	0	1	1	2	3	4	5	7
67.5°	0	0	0	0	1	1	3	4	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	17
60°	0	0	0	1	2	4	6	9	12	16	21
57.5°	0	0	0	1	2	5	7	11	15	20	25
55°	0	0	0	1	3	6	9	13	18	23	30
52.5°	0	0	1	1	4	6	10	15	21	27	35
50°	0	0	1	1	4	7	11	17	24	31	40
47.5°	0	0	1	2	5	8	13	19	27	35	45
45°	0	0	1	2	6	9	15	21	30	40	50
42.5°	0	0	1	3	6	10	16	24	33	44	56
40°	0	0	1	3	6	11	18	26	37	48	62
37.5°	0	0	1	3	7	12	19	29	40	52	67
35°	0	0	1	4	8	13	21	31	43	57	73
32.5°	0	0	1	4	8	14	22	33	46	61	79
30°	0	0	1	4	9	15	24	35	49	65	84
27.5°	0	0	1	5	10	16	25	37	52	69	90
25°	0	0	1	5	10	17	27	40	55	73	95
22.5°	0	0	1	5	10	18	28	42	57	77	101
20°	0	0	1	6	11	18	29	43	60	80	106
17.5°	0	0	1	6	11	19	30	45	62	83	111
15°	0	0	2	6	11	20	31	46	64	86	115
12.5°	0	0	2	6	12	20	32	47	65	88	118
10°	0	0	2	6	12	20	33	48	67	90	121
7.5°	0	0	2	6	12	21	33	49	68	91	124
5°	0	0	2	6	12	21	34	50	69	93	125
2.5°	0	0	2	6	12	21	34	50	69	93	127
0°	0	0	2	6	12	21	34	50	69	93	127
-2.5°	0	0	2	6	12	21	34	50	69	93	127
-5°	0	0	2	6	12	21	34	50	69	93	125
-7.5°	0	0	2	6	12	21	33	49	68	91	124
-10°	0	0	2	6	12	20	33	48	67	90	121
-12.5°	0	0	2	6	12	20	32	47	65	88	118
-15°	0	0	2	6	11	20	31	46	64	86	115
-17.5°	0	0	1	6	11	19	30	45	62	83	111
-20°	0	0	1	6	11	18	29	43	60	80	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	0	1	5	10	18	28	42	57	77	101
-25°	0	0	1	5	10	17	27	40	55	73	95
-27.5°	0	0	1	5	10	16	25	37	52	69	90
-30°	0	0	1	4	9	15	24	35	49	65	84
-32.5°	0	0	1	4	8	14	22	33	46	61	79
-35°	0	0	1	4	8	13	21	31	43	57	73
-37.5°	0	0	1	3	7	12	19	29	40	52	67
-40°	0	0	1	3	6	11	18	26	37	48	62
-42.5°	0	0	1	3	6	10	16	24	33	44	56
-45°	0	0	1	2	6	9	15	21	30	40	50
-47.5°	0	0	1	2	5	8	13	19	27	35	45
-50°	0	0	1	1	4	7	11	17	24	31	40
-52.5°	0	0	1	1	4	6	10	15	21	27	35
-55°	0	0	0	1	3	6	9	13	18	23	30
-57.5°	0	0	0	1	2	5	7	11	15	20	25
-60°	0	0	0	1	2	4	6	9	12	16	21
-62.5°	0	0	0	1	1	3	5	7	10	13	17
-65°	0	0	0	1	1	2	4	6	8	10	13
-67.5°	0	0	0	0	1	1	3	4	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	5
-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: NHRS50UBZ740_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	3	3	3	4	4	4	5	5	6
75°	4	4	5	6	6	7	7	9	10	11	11
72.5°	6	7	8	9	11	12	14	15	16	18	19
70°	9	10	12	14	16	18	21	23	25	27	29
67.5°	12	15	17	20	23	26	29	32	35	38	40
65°	16	20	23	27	31	35	39	42	47	50	54
62.5°	21	25	30	34	40	44	49	54	60	64	68
60°	26	31	37	43	49	55	61	67	73	78	84
57.5°	31	38	44	51	59	66	74	81	89	96	104
55°	37	45	52	61	70	79	88	99	108	120	131
52.5°	43	52	61	71	82	94	106	121	137	153	174
50°	49	60	71	83	96	111	130	150	177	203	238
47.5°	56	67	81	95	112	134	159	196	230	285	337
45°	62	76	92	110	132	161	204	251	322	391	483
42.5°	70	85	104	125	157	200	254	341	432	539	655
40°	77	94	117	148	187	247	334	438	572	707	855
37.5°	85	105	131	169	229	310	423	562	721	896	1046
35°	92	116	150	198	272	386	527	689	875	1067	1238
32.5°	100	127	167	232	329	465	636	826	1025	1228	1422
30°	109	141	188	263	388	553	749	956	1167	1377	1566
27.5°	117	155	215	308	447	634	851	1078	1299	1513	1696
25°	124	168	240	354	516	717	944	1179	1421	1629	1807
22.5°	133	179	261	396	578	795	1028	1271	1515	1734	1910
20°	142	197	288	433	632	862	1102	1353	1594	1810	1991
17.5°	150	212	316	475	683	920	1166	1432	1666	1881	2055
15°	157	225	340	511	727	968	1219	1478	1726	1942	2113
12.5°	162	236	359	539	762	1006	1261	1522	1771	1986	2156
10°	167	244	374	561	788	1034	1292	1555	1804	2018	2189
7.5°	171	251	385	575	806	1053	1313	1577	1829	2043	2215
5°	174	256	395	589	821	1066	1322	1588	1843	2060	2234
2.5°	176	261	403	601	835	1082	1328	1595	1852	2071	2247
0°	176	261	403	600	834	1080	1313	1580	1838	2059	2236
-2.5°	176	261	403	601	835	1082	1328	1595	1852	2071	2247
-5°	174	256	395	589	821	1066	1322	1588	1843	2060	2234
-7.5°	171	251	385	575	806	1053	1313	1577	1829	2043	2215
-10°	167	244	374	561	788	1034	1292	1555	1804	2018	2189
-12.5°	162	236	359	539	762	1006	1261	1522	1771	1986	2156
-15°	157	225	340	511	727	968	1219	1478	1726	1942	2113
-17.5°	150	212	316	475	683	920	1166	1432	1666	1881	2055
-20°	142	197	288	433	632	862	1102	1353	1594	1810	1991



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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°	133	179	261	396	578	795	1028	1271	1515	1734	1910
-25°	124	168	240	354	516	717	944	1179	1421	1629	1807
-27.5°	117	155	215	308	447	634	851	1078	1299	1513	1696
-30°	109	141	188	263	388	553	749	956	1167	1377	1566
-32.5°	100	127	167	232	329	465	636	826	1025	1228	1422
-35°	92	116	150	198	272	386	527	689	875	1067	1238
-37.5°	85	105	131	169	229	310	423	562	721	896	1046
-40°	77	94	117	148	187	247	334	438	572	707	855
-42.5°	70	85	104	125	157	200	254	341	432	539	655
-45°	62	76	92	110	132	161	204	251	322	391	483
-47.5°	56	67	81	95	112	134	159	196	230	285	337
-50°	49	60	71	83	96	111	130	150	177	203	238
-52.5°	43	52	61	71	82	94	106	121	137	153	174
-55°	37	45	52	61	70	79	88	99	108	120	131
-57.5°	31	38	44	51	59	66	74	81	89	96	104
-60°	26	31	37	43	49	55	61	67	73	78	84
-62.5°	21	25	30	34	40	44	49	54	60	64	68
-65°	16	20	23	27	31	35	39	42	47	50	54
-67.5°	12	15	17	20	23	26	29	32	35	38	40
-70°	9	10	12	14	16	18	21	23	25	27	29
-72.5°	6	7	8	9	11	12	14	15	16	18	19
-75°	4	4	5	6	6	7	7	9	10	11	11
-77.5°	2	2	3	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	7	7	7	8	8	8	8	8	8	8
75°	12	13	14	14	15	16	16	16	16	16	16
72.5°	21	22	23	24	25	26	26	27	27	27	27
70°	31	32	34	35	37	38	39	40	41	41	42
67.5°	43	45	47	49	50	52	54	55	56	57	57
65°	57	60	62	65	67	69	71	73	74	75	76
62.5°	72	76	80	83	86	88	91	94	95	97	98
60°	90	95	100	105	109	112	117	120	123	124	126
57.5°	113	120	126	136	142	146	152	159	163	164	167
55°	145	158	166	183	195	202	207	221	228	231	236
52.5°	193	219	239	258	285	299	304	324	338	345	353
50°	277	314	358	388	424	449	459	481	501	510	521
47.5°	405	463	524	572	612	646	664	683	706	717	728
45°	574	661	731	792	838	873	896	923	936	947	953
42.5°	777	880	961	1024	1072	1110	1135	1147	1169	1177	1177
40°	985	1108	1189	1255	1305	1346	1368	1379	1391	1396	1391
37.5°	1190	1317	1409	1476	1526	1567	1584	1589	1593	1593	1585
35°	1386	1507	1613	1675	1725	1756	1772	1772	1764	1763	1751
32.5°	1562	1682	1779	1852	1896	1920	1942	1932	1920	1908	1892
30°	1725	1833	1924	2001	2043	2066	2077	2072	2055	2036	2017
27.5°	1847	1966	2054	2120	2171	2194	2198	2196	2177	2153	2130
25°	1956	2076	2164	2225	2273	2303	2306	2304	2287	2261	2233
22.5°	2048	2161	2253	2318	2358	2388	2402	2395	2383	2356	2324
20°	2131	2245	2324	2390	2434	2462	2478	2476	2463	2440	2411
17.5°	2194	2305	2388	2454	2498	2528	2541	2545	2532	2514	2490
15°	2248	2357	2446	2511	2556	2586	2599	2601	2594	2577	2557
12.5°	2291	2403	2494	2563	2612	2641	2655	2656	2650	2636	2618
10°	2328	2442	2535	2607	2661	2695	2714	2718	2707	2691	2673
7.5°	2357	2476	2572	2650	2707	2744	2765	2772	2766	2747	2724
5°	2380	2503	2604	2685	2745	2787	2812	2819	2809	2791	2769
2.5°	2396	2525	2631	2713	2778	2823	2847	2851	2837	2815	2786
0°	2388	2519	2627	2714	2781	2828	2856	2859	2844	2818	2783
-2.5°	2396	2525	2631	2713	2778	2823	2847	2851	2837	2815	2786
-5°	2380	2503	2604	2685	2745	2787	2812	2819	2809	2791	2769
-7.5°	2357	2476	2572	2650	2707	2744	2765	2772	2766	2747	2724
-10°	2328	2442	2535	2607	2661	2695	2714	2718	2707	2691	2673
-12.5°	2291	2403	2494	2563	2612	2641	2655	2656	2650	2636	2618
-15°	2248	2357	2446	2511	2556	2586	2599	2601	2594	2577	2557
-17.5°	2194	2305	2388	2454	2498	2528	2541	2545	2532	2514	2490
-20°	2131	2245	2324	2390	2434	2462	2478	2476	2463	2440	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°	2048	2161	2253	2318	2358	2388	2402	2395	2383	2356	2324
-25°	1956	2076	2164	2225	2273	2303	2306	2304	2287	2261	2233
-27.5°	1847	1966	2054	2120	2171	2194	2198	2196	2177	2153	2130
-30°	1725	1833	1924	2001	2043	2066	2077	2072	2055	2036	2017
-32.5°	1562	1682	1779	1852	1896	1920	1942	1932	1920	1908	1892
-35°	1386	1507	1613	1675	1725	1756	1772	1772	1764	1763	1751
-37.5°	1190	1317	1409	1476	1526	1567	1584	1589	1593	1593	1585
-40°	985	1108	1189	1255	1305	1346	1368	1379	1391	1396	1391
-42.5°	777	880	961	1024	1072	1110	1135	1147	1169	1177	1177
-45°	574	661	731	792	838	873	896	923	936	947	953
-47.5°	405	463	524	572	612	646	664	683	706	717	728
-50°	277	314	358	388	424	449	459	481	501	510	521
-52.5°	193	219	239	258	285	299	304	324	338	345	353
-55°	145	158	166	183	195	202	207	221	228	231	236
-57.5°	113	120	126	136	142	146	152	159	163	164	167
-60°	90	95	100	105	109	112	117	120	123	124	126
-62.5°	72	76	80	83	86	88	91	94	95	97	98
-65°	57	60	62	65	67	69	71	73	74	75	76
-67.5°	43	45	47	49	50	52	54	55	56	57	57
-70°	31	32	34	35	37	38	39	40	41	41	42
-72.5°	21	22	23	24	25	26	26	27	27	27	27
-75°	12	13	14	14	15	16	16	16	16	16	16
-77.5°	6	7	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	2	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	28	27	27	27	28	27	27	27	27	27
70°	42	42	42	43	42	42	42	42	41	41	40
67.5°	58	58	59	59	59	58	58	57	57	56	55
65°	77	77	77	77	77	77	77	76	75	74	73
62.5°	99	99	100	99	100	99	99	98	97	95	94
60°	128	128	129	127	129	128	128	126	124	123	120
57.5°	169	170	170	168	170	170	169	167	164	163	159
55°	239	239	239	235	239	239	239	236	231	228	221
52.5°	360	360	361	356	361	360	360	353	345	338	324
50°	530	532	534	527	534	532	530	521	510	501	481
47.5°	740	743	746	737	746	743	740	728	717	706	683
45°	967	970	974	964	974	970	967	953	947	936	923
42.5°	1190	1192	1194	1185	1194	1192	1190	1177	1177	1169	1147
40°	1400	1401	1403	1398	1403	1401	1400	1391	1396	1391	1379
37.5°	1587	1587	1587	1583	1587	1587	1587	1585	1593	1593	1589
35°	1743	1742	1741	1738	1741	1742	1743	1751	1763	1764	1772
32.5°	1876	1874	1869	1866	1869	1874	1876	1892	1908	1920	1932
30°	1993	1989	1981	1978	1981	1989	1993	2017	2036	2055	2072
27.5°	2103	2093	2080	2080	2080	2093	2103	2130	2153	2177	2196
25°	2205	2187	2174	2172	2174	2187	2205	2233	2261	2287	2304
22.5°	2298	2275	2264	2261	2264	2275	2298	2324	2356	2383	2395
20°	2384	2360	2354	2352	2354	2360	2384	2411	2440	2463	2476
17.5°	2462	2442	2438	2438	2438	2442	2462	2490	2514	2532	2545
15°	2533	2515	2508	2513	2508	2515	2533	2557	2577	2594	2601
12.5°	2597	2576	2568	2574	2568	2576	2597	2618	2636	2650	2656
10°	2654	2631	2620	2630	2620	2631	2654	2673	2691	2707	2718
7.5°	2701	2683	2669	2681	2669	2683	2701	2724	2747	2766	2772
5°	2737	2715	2700	2708	2700	2715	2737	2769	2791	2809	2819
2.5°	2753	2733	2715	2714	2715	2733	2753	2786	2815	2837	2851
0°	2740	2709	2694	2711	2694	2709	2740	2783	2818	2844	2859
-2.5°	2753	2733	2715	2714	2715	2733	2753	2786	2815	2837	2851
-5°	2737	2715	2700	2708	2700	2715	2737	2769	2791	2809	2819
-7.5°	2701	2683	2669	2681	2669	2683	2701	2724	2747	2766	2772
-10°	2654	2631	2620	2630	2620	2631	2654	2673	2691	2707	2718
-12.5°	2597	2576	2568	2574	2568	2576	2597	2618	2636	2650	2656
-15°	2533	2515	2508	2513	2508	2515	2533	2557	2577	2594	2601
-17.5°	2462	2442	2438	2438	2438	2442	2462	2490	2514	2532	2545
-20°	2384	2360	2354	2352	2354	2360	2384	2411	2440	2463	2476



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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°	2298	2275	2264	2261	2264	2275	2298	2324	2356	2383	2395
-25°	2205	2187	2174	2172	2174	2187	2205	2233	2261	2287	2304
-27.5°	2103	2093	2080	2080	2080	2093	2103	2130	2153	2177	2196
-30°	1993	1989	1981	1978	1981	1989	1993	2017	2036	2055	2072
-32.5°	1876	1874	1869	1866	1869	1874	1876	1892	1908	1920	1932
-35°	1743	1742	1741	1738	1741	1742	1743	1751	1763	1764	1772
-37.5°	1587	1587	1587	1583	1587	1587	1587	1585	1593	1593	1589
-40°	1400	1401	1403	1398	1403	1401	1400	1391	1396	1391	1379
-42.5°	1190	1192	1194	1185	1194	1192	1190	1177	1177	1169	1147
-45°	967	970	974	964	974	970	967	953	947	936	923
-47.5°	740	743	746	737	746	743	740	728	717	706	683
-50°	530	532	534	527	534	532	530	521	510	501	481
-52.5°	360	360	361	356	361	360	360	353	345	338	324
-55°	239	239	239	235	239	239	239	236	231	228	221
-57.5°	169	170	170	168	170	170	169	167	164	163	159
-60°	128	128	129	127	129	128	128	126	124	123	120
-62.5°	99	99	100	99	100	99	99	98	97	95	94
-65°	77	77	77	77	77	77	77	76	75	74	73
-67.5°	58	58	59	59	59	58	58	57	57	56	55
-70°	42	42	42	43	42	42	42	42	41	41	40
-72.5°	27	28	27	27	27	28	27	27	27	27	27
-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	2	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	7	6	6	5	5	4
75°	16	16	15	14	14	13	12	11	11	10	9
72.5°	26	26	25	24	23	22	21	19	18	16	15
70°	39	38	37	35	34	32	31	29	27	25	23
67.5°	54	52	50	49	47	45	43	40	38	35	32
65°	71	69	67	65	62	60	57	54	50	47	42
62.5°	91	88	86	83	80	76	72	68	64	60	54
60°	117	112	109	105	100	95	90	84	78	73	67
57.5°	152	146	142	136	126	120	113	104	96	89	81
55°	207	202	195	183	166	158	145	131	120	108	99
52.5°	304	299	285	258	239	219	193	174	153	137	121
50°	459	449	424	388	358	314	277	238	203	177	150
47.5°	664	646	612	572	524	463	405	337	285	230	196
45°	896	873	838	792	731	661	574	483	391	322	251
42.5°	1135	1110	1072	1024	961	880	777	655	539	432	341
40°	1368	1346	1305	1255	1189	1108	985	855	707	572	438
37.5°	1584	1567	1526	1476	1409	1317	1190	1046	896	721	562
35°	1772	1756	1725	1675	1613	1507	1386	1238	1067	875	689
32.5°	1942	1920	1896	1852	1779	1682	1562	1422	1228	1025	826
30°	2077	2066	2043	2001	1924	1833	1725	1566	1377	1167	956
27.5°	2198	2194	2171	2120	2054	1966	1847	1696	1513	1299	1078
25°	2306	2303	2273	2225	2164	2076	1956	1807	1629	1421	1179
22.5°	2402	2388	2358	2318	2253	2161	2048	1910	1734	1515	1271
20°	2478	2462	2434	2390	2324	2245	2131	1991	1810	1594	1353
17.5°	2541	2528	2498	2454	2388	2305	2194	2055	1881	1666	1432
15°	2599	2586	2556	2511	2446	2357	2248	2113	1942	1726	1478
12.5°	2655	2641	2612	2563	2494	2403	2291	2156	1986	1771	1522
10°	2714	2695	2661	2607	2535	2442	2328	2189	2018	1804	1555
7.5°	2765	2744	2707	2650	2572	2476	2357	2215	2043	1829	1577
5°	2812	2787	2745	2685	2604	2503	2380	2234	2060	1843	1588
2.5°	2847	2823	2778	2713	2631	2525	2396	2247	2071	1852	1595
0°	2856	2828	2781	2714	2627	2519	2388	2236	2059	1838	1580
-2.5°	2847	2823	2778	2713	2631	2525	2396	2247	2071	1852	1595
-5°	2812	2787	2745	2685	2604	2503	2380	2234	2060	1843	1588
-7.5°	2765	2744	2707	2650	2572	2476	2357	2215	2043	1829	1577
-10°	2714	2695	2661	2607	2535	2442	2328	2189	2018	1804	1555
-12.5°	2655	2641	2612	2563	2494	2403	2291	2156	1986	1771	1522
-15°	2599	2586	2556	2511	2446	2357	2248	2113	1942	1726	1478
-17.5°	2541	2528	2498	2454	2388	2305	2194	2055	1881	1666	1432
-20°	2478	2462	2434	2390	2324	2245	2131	1991	1810	1594	1353



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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°	2402	2388	2358	2318	2253	2161	2048	1910	1734	1515	1271
-25°	2306	2303	2273	2225	2164	2076	1956	1807	1629	1421	1179
-27.5°	2198	2194	2171	2120	2054	1966	1847	1696	1513	1299	1078
-30°	2077	2066	2043	2001	1924	1833	1725	1566	1377	1167	956
-32.5°	1942	1920	1896	1852	1779	1682	1562	1422	1228	1025	826
-35°	1772	1756	1725	1675	1613	1507	1386	1238	1067	875	689
-37.5°	1584	1567	1526	1476	1409	1317	1190	1046	896	721	562
-40°	1368	1346	1305	1255	1189	1108	985	855	707	572	438
-42.5°	1135	1110	1072	1024	961	880	777	655	539	432	341
-45°	896	873	838	792	731	661	574	483	391	322	251
-47.5°	664	646	612	572	524	463	405	337	285	230	196
-50°	459	449	424	388	358	314	277	238	203	177	150
-52.5°	304	299	285	258	239	219	193	174	153	137	121
-55°	207	202	195	183	166	158	145	131	120	108	99
-57.5°	152	146	142	136	126	120	113	104	96	89	81
-60°	117	112	109	105	100	95	90	84	78	73	67
-62.5°	91	88	86	83	80	76	72	68	64	60	54
-65°	71	69	67	65	62	60	57	54	50	47	42
-67.5°	54	52	50	49	47	45	43	40	38	35	32
-70°	39	38	37	35	34	32	31	29	27	25	23
-72.5°	26	26	25	24	23	22	21	19	18	16	15
-75°	16	16	15	14	14	13	12	11	11	10	9
-77.5°	8	8	8	7	7	7	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



REPORT NUMBER: P731774
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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	3	2	2	1	1	1	1
75°	7	7	6	6	5	4	4	3	2	1	1
72.5°	14	12	11	9	8	7	6	5	4	3	2
70°	21	18	16	14	12	10	9	7	5	4	3
67.5°	29	26	23	20	17	15	12	10	8	6	4
65°	39	35	31	27	23	20	16	13	10	8	6
62.5°	49	44	40	34	30	25	21	17	13	10	7
60°	61	55	49	43	37	31	26	21	16	12	9
57.5°	74	66	59	51	44	38	31	25	20	15	11
55°	88	79	70	61	52	45	37	30	23	18	13
52.5°	106	94	82	71	61	52	43	35	27	21	15
50°	130	111	96	83	71	60	49	40	31	24	17
47.5°	159	134	112	95	81	67	56	45	35	27	19
45°	204	161	132	110	92	76	62	50	40	30	21
42.5°	254	200	157	125	104	85	70	56	44	33	24
40°	334	247	187	148	117	94	77	62	48	37	26
37.5°	423	310	229	169	131	105	85	67	52	40	29
35°	527	386	272	198	150	116	92	73	57	43	31
32.5°	636	465	329	232	167	127	100	79	61	46	33
30°	749	553	388	263	188	141	109	84	65	49	35
27.5°	851	634	447	308	215	155	117	90	69	52	37
25°	944	717	516	354	240	168	124	95	73	55	40
22.5°	1028	795	578	396	261	179	133	101	77	57	42
20°	1102	862	632	433	288	197	142	106	80	60	43
17.5°	1166	920	683	475	316	212	150	111	83	62	45
15°	1219	968	727	511	340	225	157	115	86	64	46
12.5°	1261	1006	762	539	359	236	162	118	88	65	47
10°	1292	1034	788	561	374	244	167	121	90	67	48
7.5°	1313	1053	806	575	385	251	171	124	91	68	49
5°	1322	1066	821	589	395	256	174	125	93	69	50
2.5°	1328	1082	835	601	403	261	176	127	93	69	50
0°	1313	1080	834	600	403	261	176	127	93	69	50
-2.5°	1328	1082	835	601	403	261	176	127	93	69	50
-5°	1322	1066	821	589	395	256	174	125	93	69	50
-7.5°	1313	1053	806	575	385	251	171	124	91	68	49
-10°	1292	1034	788	561	374	244	167	121	90	67	48
-12.5°	1261	1006	762	539	359	236	162	118	88	65	47
-15°	1219	968	727	511	340	225	157	115	86	64	46
-17.5°	1166	920	683	475	316	212	150	111	83	62	45
-20°	1102	862	632	433	288	197	142	106	80	60	43



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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°	1028	795	578	396	261	179	133	101	77	57	42
-25°	944	717	516	354	240	168	124	95	73	55	40
-27.5°	851	634	447	308	215	155	117	90	69	52	37
-30°	749	553	388	263	188	141	109	84	65	49	35
-32.5°	636	465	329	232	167	127	100	79	61	46	33
-35°	527	386	272	198	150	116	92	73	57	43	31
-37.5°	423	310	229	169	131	105	85	67	52	40	29
-40°	334	247	187	148	117	94	77	62	48	37	26
-42.5°	254	200	157	125	104	85	70	56	44	33	24
-45°	204	161	132	110	92	76	62	50	40	30	21
-47.5°	159	134	112	95	81	67	56	45	35	27	19
-50°	130	111	96	83	71	60	49	40	31	24	17
-52.5°	106	94	82	71	61	52	43	35	27	21	15
-55°	88	79	70	61	52	45	37	30	23	18	13
-57.5°	74	66	59	51	44	38	31	25	20	15	11
-60°	61	55	49	43	37	31	26	21	16	12	9
-62.5°	49	44	40	34	30	25	21	17	13	10	7
-65°	39	35	31	27	23	20	16	13	10	8	6
-67.5°	29	26	23	20	17	15	12	10	8	6	4
-70°	21	18	16	14	12	10	9	7	5	4	3
-72.5°	14	12	11	9	8	7	6	5	4	3	2
-75°	7	7	6	6	5	4	4	3	2	1	1
-77.5°	4	4	3	3	3	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	1	0	0
50°	11	7	4	1	1	0	0
47.5°	13	8	5	2	1	0	0
45°	15	9	6	2	1	0	0
42.5°	16	10	6	3	1	0	0
40°	18	11	6	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°	24	15	9	4	1	0	0
27.5°	25	16	10	5	1	0	0
25°	27	17	10	5	1	0	0
22.5°	28	18	10	5	1	0	0
20°	29	18	11	6	1	0	0
17.5°	30	19	11	6	1	0	0
15°	31	20	11	6	2	0	0
12.5°	32	20	12	6	2	0	0
10°	33	20	12	6	2	0	0
7.5°	33	21	12	6	2	0	0
5°	34	21	12	6	2	0	0
2.5°	34	21	12	6	2	0	0
0°	34	21	12	6	2	0	0
-2.5°	34	21	12	6	2	0	0
-5°	34	21	12	6	2	0	0
-7.5°	33	21	12	6	2	0	0
-10°	33	20	12	6	2	0	0
-12.5°	32	20	12	6	2	0	0
-15°	31	20	11	6	2	0	0
-17.5°	30	19	11	6	1	0	0
-20°	29	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°	28	18	10	5	1	0	0
-25°	27	17	10	5	1	0	0
-27.5°	25	16	10	5	1	0	0
-30°	24	15	9	4	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	6	3	1	0	0
-42.5°	16	10	6	3	1	0	0
-45°	15	9	6	2	1	0	0
-47.5°	13	8	5	2	1	0	0
-50°	11	7	4	1	1	0	0
-52.5°	10	6	4	1	1	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)