

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: STREETWORKS

Report Number: P622142

Luminaire Tested: **IFLD-L-SA8C-727-U-66**

Issue Date: 09/20/2022

Test Information

Test Method: LM-79-2019
Report Number: P622142
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/20/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

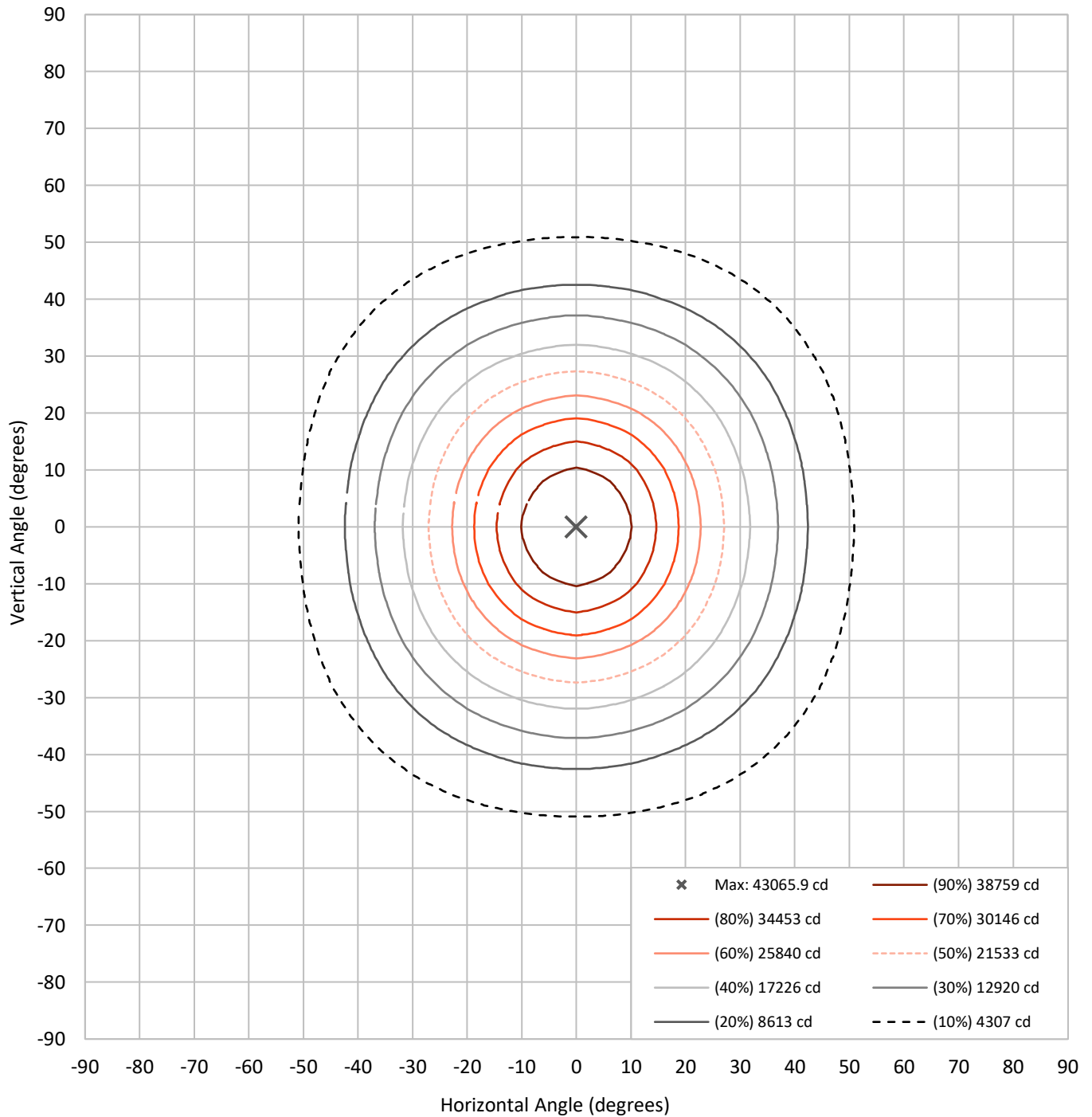
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	44666.4 lumens	Max Intensity:	43065.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	106.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	21475.7 lumens	Field Lumens:	39199.2 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%

Input Watts (W): 420.3
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: 25 FT



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Iso-Candela Plot





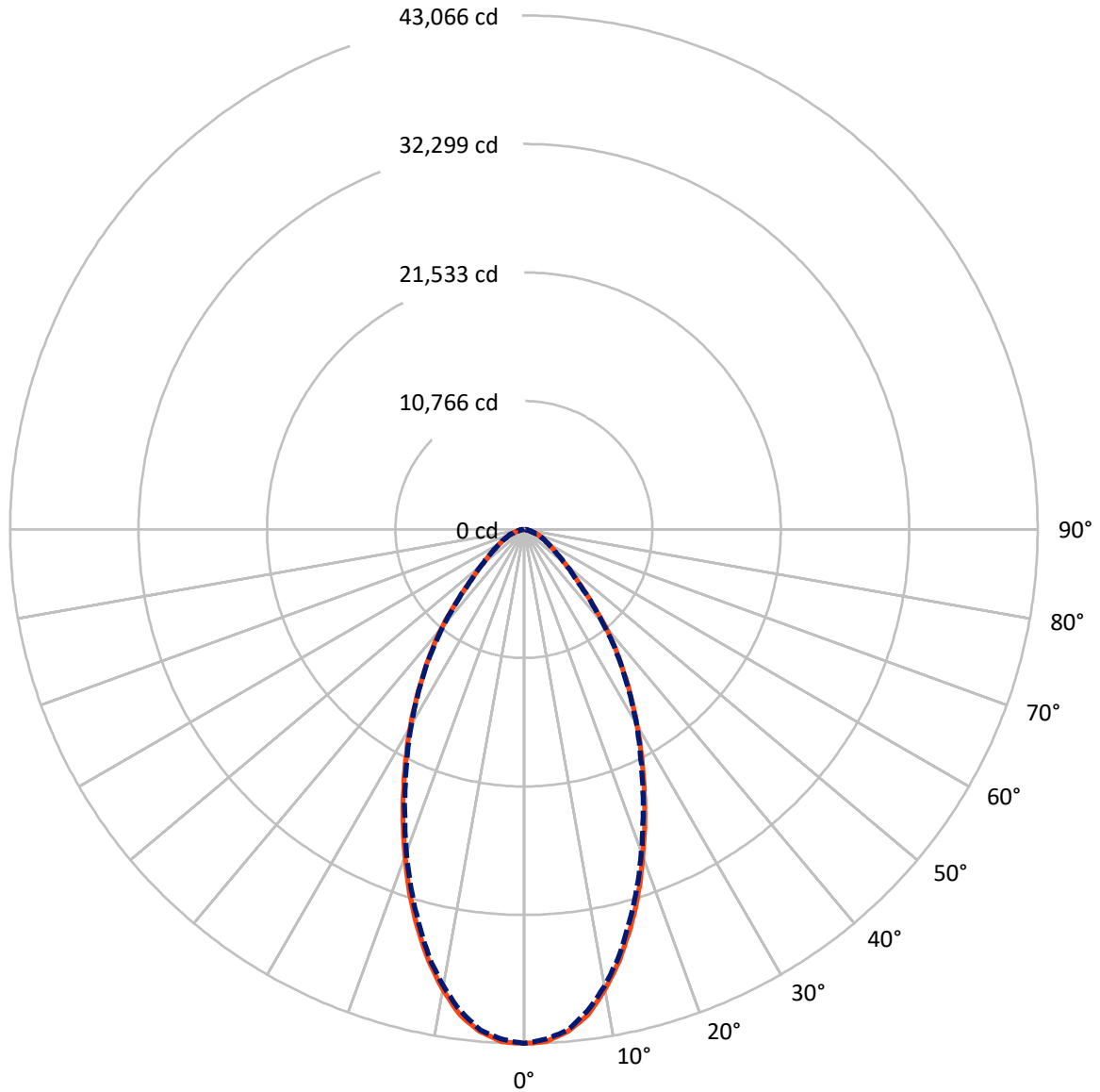
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Lumen Table

90	3.1	19.2	38.6	58.7	50.4	58.7	38.6	19.2	3.1							
80	3.1	19.2	38.6	58.7	50.4	58.7	38.6	19.2	3.1							
70	7.9	8.4	14.9	22.6	31.7	40.5	47.2	50.6	50.6	47.2	40.5	31.7	22.6	14.9	8.4	7.9
60		11.1	21.1	34.7	52.0	70.9	87.9	98.1	98.1	87.9	70.9	52.0	34.7	21.1	11.1	
50	10.6	13.9	28.3	51.1	84.9	130.1	179.1	212.5	212.5	179.1	130.1	84.9	51.1	28.3	13.9	10.6
40		16.5	36.6	73.6	141.2	249.7	363.2	433.8	433.8	363.2	249.7	141.2	73.6	36.6	16.5	
30	12.2	19.0	45.0	102.0	226.0	407.8	585.8	703.1	703.1	585.8	407.8	226.0	102.0	45.0	19.0	12.2
20		21.0	52.5	131.3	307.8	549.1	813.2	1004.1	1004.1	813.2	549.1	307.8	131.3	52.5	21.0	
10	12.8	22.1	57.0	150.5	355.3	636.9	969.9	1219.1	1219.1	969.9	636.9	355.3	150.5	57.0	22.1	12.8
0		22.1	57.0	150.5	355.3	636.9	969.9	1219.1	1219.1	969.9	636.9	355.3	150.5	57.0	22.1	
-10	12.2	21.0	52.5	131.3	307.8	549.1	813.2	1004.1	1004.1	813.2	549.1	307.8	131.3	52.5	21.0	12.2
-20		19.0	45.0	102.0	226.0	407.8	585.8	703.1	703.1	585.8	407.8	226.0	102.0	45.0	19.0	
-30	10.6	16.5	36.6	73.6	141.2	249.7	363.2	433.8	433.8	363.2	249.7	141.2	73.6	36.6	16.5	10.6
-40		13.9	28.3	51.1	84.9	130.1	179.1	212.5	212.5	179.1	130.1	84.9	51.1	28.3	13.9	
-50	7.9	11.1	21.1	34.7	52.0	70.9	87.9	98.1	98.1	87.9	70.9	52.0	34.7	21.1	11.1	7.9
-60		8.4	14.9	22.6	31.7	40.5	47.2	50.6	50.6	47.2	40.5	31.7	22.6	14.9	8.4	
-70	3.1	19.2	38.6	58.7	50.4	58.7	38.6	19.2	3.1							
-80		3.1	19.2	38.6	58.7	50.4	58.7	38.6	19.2	3.1						
-90	3.1	19.2	38.6	58.7	50.4	58.7	38.6	19.2	3.1							

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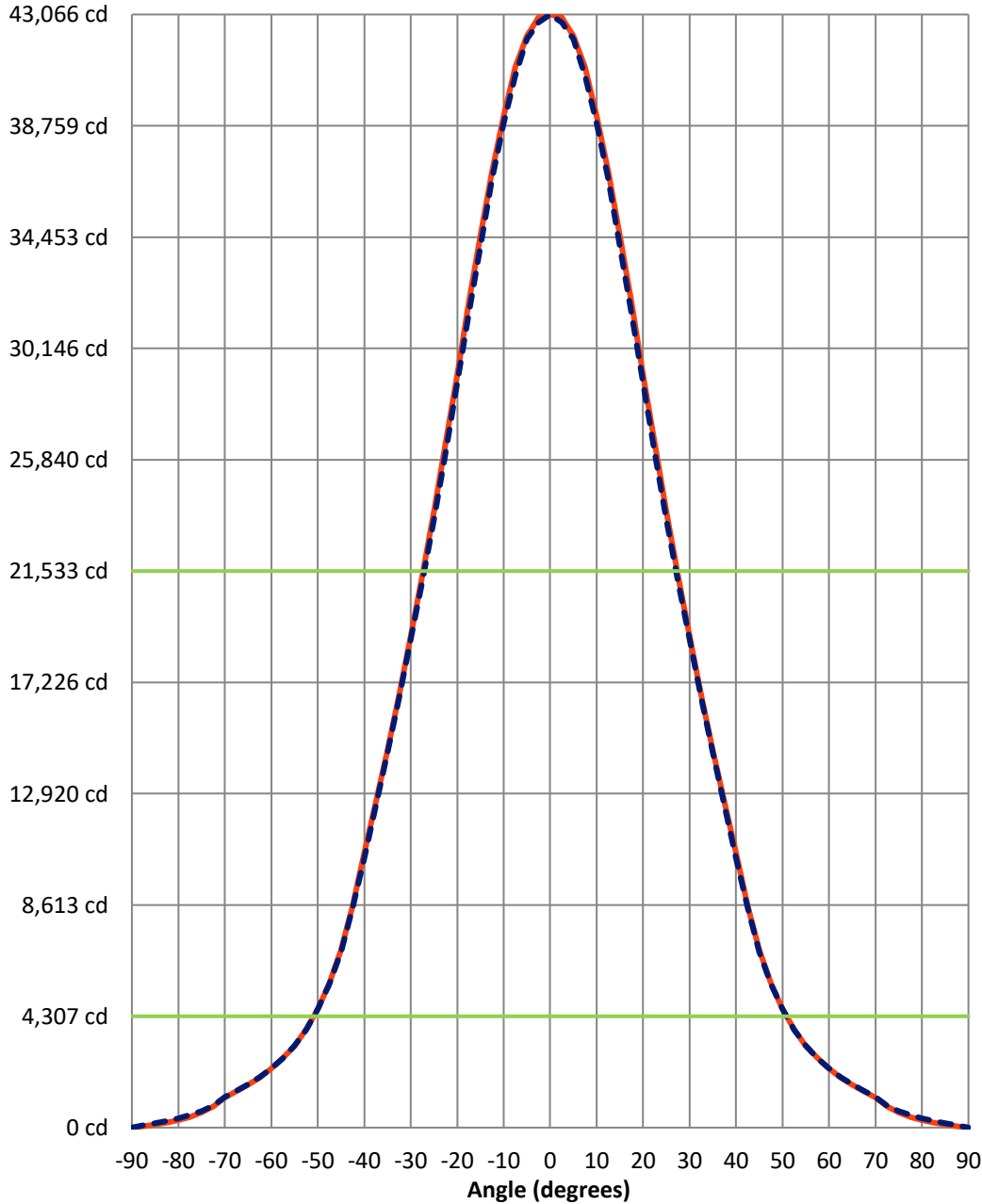
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 54.2°
V Angle: 54.7°
Lumens: 21475.7
Efficiency: 48.1%

Field:
H Angle: 101.7°
V Angle: 101.8°
Lumens: 39199.2
Efficiency: 87.8%

Spill:
Lumens: 5467.2
Efficiency: 12.2%

— Vertical Distribution through 0-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	5	9	18	28	37	46	55	60	64	73
85°	0	9	18	32	51	73	96	110	119	133	142
82.5°	0	14	32	51	78	106	142	161	179	197	211
80°	0	18	41	69	101	142	188	211	234	257	275
77.5°	0	23	51	83	129	174	229	262	289	317	344
75°	0	28	60	101	151	202	266	307	344	381	422
72.5°	0	32	69	115	170	229	303	353	395	445	500
70°	0	37	78	133	188	257	340	395	445	505	551
67.5°	0	41	87	142	207	280	367	436	491	546	597
65°	0	41	96	151	220	303	390	473	532	587	647
62.5°	0	46	106	161	234	321	413	505	569	629	698
60°	0	51	110	170	252	340	441	537	601	675	748
57.5°	0	55	115	179	262	353	459	564	642	720	799
55°	0	60	124	188	271	372	477	592	679	762	849
52.5°	0	60	129	193	285	386	496	610	716	808	909
50°	0	64	133	197	294	399	509	633	753	854	959
47.5°	0	69	138	202	298	408	528	656	794	899	1014
45°	0	69	142	207	307	422	542	670	821	945	1065
42.5°	0	73	142	211	312	431	555	693	844	991	1120
40°	0	78	147	220	321	436	569	711	872	1037	1170
37.5°	0	78	151	225	326	445	578	730	899	1069	1216
35°	0	83	156	229	330	450	583	748	922	1101	1267
32.5°	0	83	156	239	335	459	592	762	950	1138	1312
30°	0	83	161	243	335	459	606	776	973	1175	1358
27.5°	0	87	161	243	344	464	615	794	996	1216	1404
25°	0	87	165	248	349	464	620	808	1023	1253	1446
22.5°	0	87	165	252	353	468	624	821	1051	1285	1491
20°	0	92	170	257	358	473	629	835	1078	1312	1528
17.5°	0	92	170	257	363	482	633	844	1101	1340	1560
15°	0	96	170	257	363	486	642	849	1124	1363	1592
12.5°	0	96	170	262	363	486	647	858	1147	1386	1615
10°	0	92	174	262	363	491	652	863	1161	1400	1638
7.5°	0	92	174	262	367	491	652	863	1175	1413	1652
5°	0	92	170	262	363	496	652	867	1193	1427	1666
2.5°	0	92	170	257	363	496	642	858	1189	1427	1675
0°	0	92	170	257	363	496	642	858	1189	1427	1675
-2.5°	0	92	170	257	363	496	642	858	1189	1427	1675
-5°	0	92	170	262	363	496	652	867	1193	1427	1666
-7.5°	0	92	174	262	367	491	652	863	1175	1413	1652
-10°	0	92	174	262	363	491	652	863	1161	1400	1638
-12.5°	0	96	170	262	363	486	647	858	1147	1386	1615
-15°	0	96	170	257	363	486	642	849	1124	1363	1592
-17.5°	0	92	170	257	363	482	633	844	1101	1340	1560
-20°	0	92	170	257	358	473	629	835	1078	1312	1528



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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	87	165	252	353	468	624	821	1051	1285	1491
-25°	0	87	165	248	349	464	620	808	1023	1253	1446
-27.5°	0	87	161	243	344	464	615	794	996	1216	1404
-30°	0	83	161	243	335	459	606	776	973	1175	1358
-32.5°	0	83	156	239	335	459	592	762	950	1138	1312
-35°	0	83	156	229	330	450	583	748	922	1101	1267
-37.5°	0	78	151	225	326	445	578	730	899	1069	1216
-40°	0	78	147	220	321	436	569	711	872	1037	1170
-42.5°	0	73	142	211	312	431	555	693	844	991	1120
-45°	0	69	142	207	307	422	542	670	821	945	1065
-47.5°	0	69	138	202	298	408	528	656	794	899	1014
-50°	0	64	133	197	294	399	509	633	753	854	959
-52.5°	0	60	129	193	285	386	496	610	716	808	909
-55°	0	60	124	188	271	372	477	592	679	762	849
-57.5°	0	55	115	179	262	353	459	564	642	720	799
-60°	0	51	110	170	252	340	441	537	601	675	748
-62.5°	0	46	106	161	234	321	413	505	569	629	698
-65°	0	41	96	151	220	303	390	473	532	587	647
-67.5°	0	41	87	142	207	280	367	436	491	546	597
-70°	0	37	78	133	188	257	340	395	445	505	551
-72.5°	0	32	69	115	170	229	303	353	395	445	500
-75°	0	28	60	101	151	202	266	307	344	381	422
-77.5°	0	23	51	83	129	174	229	262	289	317	344
-80°	0	18	41	69	101	142	188	211	234	257	275
-82.5°	0	14	32	51	78	106	142	161	179	197	211
-85°	0	9	18	32	51	73	96	110	119	133	142
-87.5°	0	5	9	18	28	37	46	55	60	64	73
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	78	83	87	87	87	83	78	73	83	92	101
85°	151	165	170	179	174	165	161	151	170	188	211
82.5°	225	239	248	257	257	248	239	225	252	280	312
80°	294	312	330	344	344	330	317	298	330	372	413
77.5°	376	399	418	436	431	427	418	408	441	482	523
75°	459	491	505	523	532	528	528	537	574	624	670
72.5°	532	555	583	615	629	638	661	688	725	766	803
70°	592	620	656	688	716	743	776	812	849	890	927
67.5°	647	688	725	766	803	844	886	927	968	1014	1060
65°	707	753	799	844	895	945	996	1042	1092	1152	1202
62.5°	766	817	872	927	987	1046	1106	1166	1234	1299	1363
60°	821	886	950	1019	1088	1156	1221	1299	1381	1455	1537
57.5°	877	955	1028	1106	1184	1262	1354	1441	1537	1634	1725
55°	936	1028	1111	1198	1285	1386	1487	1597	1702	1826	1941
52.5°	1000	1097	1193	1290	1400	1510	1629	1758	1895	2037	2180
50°	1065	1170	1276	1390	1514	1643	1785	1937	2102	2267	2441
47.5°	1124	1239	1368	1491	1634	1785	1950	2134	2317	2524	2744
45°	1189	1312	1450	1602	1758	1937	2134	2336	2570	2804	3061
42.5°	1253	1386	1542	1702	1895	2097	2313	2570	2831	3120	3432
40°	1308	1459	1634	1826	2033	2258	2524	2804	3125	3469	3855
37.5°	1372	1537	1725	1937	2175	2437	2744	3070	3442	3859	4323
35°	1432	1615	1822	2051	2317	2620	2964	3345	3777	4281	4846
32.5°	1491	1693	1914	2166	2460	2804	3194	3644	4153	4731	5438
30°	1551	1762	2001	2276	2606	2997	3446	3946	4534	5263	6103
27.5°	1606	1836	2093	2395	2749	3175	3685	4281	4974	5796	6778
25°	1661	1900	2180	2506	2900	3368	3923	4580	5410	6383	7549
22.5°	1712	1964	2258	2611	3038	3556	4180	4928	5842	6925	8297
20°	1762	2028	2340	2712	3157	3726	4414	5250	6287	7562	9086
17.5°	1803	2088	2418	2818	3304	3901	4630	5571	6691	8150	9848
15°	1845	2138	2487	2909	3432	4075	4864	5851	7117	8705	10508
12.5°	1877	2180	2547	2992	3543	4222	5066	6135	7530	9228	11082
10°	1900	2216	2593	3056	3634	4341	5231	6365	7865	9655	11559
7.5°	1923	2244	2629	3107	3703	4433	5360	6544	8122	9985	11926
5°	1941	2267	2657	3143	3749	4502	5456	6658	8306	10219	12188
2.5°	1955	2285	2680	3175	3786	4575	5543	6782	8480	10417	12422
0°	1955	2290	2680	3175	3781	4589	5557	6791	8503	10412	12454
-2.5°	1955	2285	2680	3175	3786	4575	5543	6782	8480	10417	12422
-5°	1941	2267	2657	3143	3749	4502	5456	6658	8306	10219	12188
-7.5°	1923	2244	2629	3107	3703	4433	5360	6544	8122	9985	11926
-10°	1900	2216	2593	3056	3634	4341	5231	6365	7865	9655	11559
-12.5°	1877	2180	2547	2992	3543	4222	5066	6135	7530	9228	11082
-15°	1845	2138	2487	2909	3432	4075	4864	5851	7117	8705	10508
-17.5°	1803	2088	2418	2818	3304	3901	4630	5571	6691	8150	9848
-20°	1762	2028	2340	2712	3157	3726	4414	5250	6287	7562	9086



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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°	1712	1964	2258	2611	3038	3556	4180	4928	5842	6925	8297
-25°	1661	1900	2180	2506	2900	3368	3923	4580	5410	6383	7549
-27.5°	1606	1836	2093	2395	2749	3175	3685	4281	4974	5796	6778
-30°	1551	1762	2001	2276	2606	2997	3446	3946	4534	5263	6103
-32.5°	1491	1693	1914	2166	2460	2804	3194	3644	4153	4731	5438
-35°	1432	1615	1822	2051	2317	2620	2964	3345	3777	4281	4846
-37.5°	1372	1537	1725	1937	2175	2437	2744	3070	3442	3859	4323
-40°	1308	1459	1634	1826	2033	2258	2524	2804	3125	3469	3855
-42.5°	1253	1386	1542	1702	1895	2097	2313	2570	2831	3120	3432
-45°	1189	1312	1450	1602	1758	1937	2134	2336	2570	2804	3061
-47.5°	1124	1239	1368	1491	1634	1785	1950	2134	2317	2524	2744
-50°	1065	1170	1276	1390	1514	1643	1785	1937	2102	2267	2441
-52.5°	1000	1097	1193	1290	1400	1510	1629	1758	1895	2037	2180
-55°	936	1028	1111	1198	1285	1386	1487	1597	1702	1826	1941
-57.5°	877	955	1028	1106	1184	1262	1354	1441	1537	1634	1725
-60°	821	886	950	1019	1088	1156	1221	1299	1381	1455	1537
-62.5°	766	817	872	927	987	1046	1106	1166	1234	1299	1363
-65°	707	753	799	844	895	945	996	1042	1092	1152	1202
-67.5°	647	688	725	766	803	844	886	927	968	1014	1060
-70°	592	620	656	688	716	743	776	812	849	890	927
-72.5°	532	555	583	615	629	638	661	688	725	766	803
-75°	459	491	505	523	532	528	528	537	574	624	670
-77.5°	376	399	418	436	431	427	418	408	441	482	523
-80°	294	312	330	344	344	330	317	298	330	372	413
-82.5°	225	239	248	257	257	248	239	225	252	280	312
-85°	151	165	170	179	174	165	161	151	170	188	211
-87.5°	78	83	87	87	87	83	78	73	83	92	101
-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°	115	115	115	115	110	115	115	119	124	110	96
85°	229	234	234	234	234	234	234	234	234	211	188
82.5°	344	358	367	381	390	390	386	381	372	335	294
80°	454	477	491	505	519	514	509	500	496	450	404
77.5°	564	592	610	624	638	642	638	638	633	592	542
75°	707	730	748	766	785	794	799	799	799	762	716
72.5°	835	863	890	918	941	955	968	977	987	968	941
70°	968	1000	1033	1065	1097	1120	1138	1156	1166	1170	1170
67.5°	1106	1147	1189	1230	1267	1299	1322	1345	1363	1381	1390
65°	1257	1312	1363	1409	1450	1491	1524	1556	1583	1606	1620
62.5°	1427	1491	1551	1611	1657	1707	1758	1803	1840	1872	1895
60°	1615	1693	1767	1840	1914	1973	2037	2093	2138	2180	2216
57.5°	1826	1923	2015	2111	2193	2272	2350	2428	2496	2551	2597
55°	2060	2180	2299	2414	2528	2634	2735	2836	2928	3001	3065
52.5°	2331	2473	2625	2767	2923	3061	3189	3327	3451	3561	3653
50°	2620	2804	3001	3185	3387	3579	3754	3928	4102	4254	4378
47.5°	2960	3180	3437	3689	3937	4199	4442	4671	4910	5112	5282
45°	3327	3634	3937	4277	4589	4942	5277	5612	5906	6200	6447
42.5°	3763	4148	4534	4970	5396	5842	6314	6736	7177	7608	7966
40°	4281	4736	5268	5791	6383	6943	7613	8205	8765	9311	9774
37.5°	4850	5452	6108	6773	7576	8365	9150	9894	10559	11169	11656
35°	5507	6264	7044	8012	8967	9930	10830	11674	12431	13051	13565
32.5°	6259	7154	8232	9357	10463	11532	12605	13441	14230	14937	15542
30°	7058	8223	9481	10738	11945	13106	14189	15194	16111	16905	17584
27.5°	7994	9343	10742	12092	13386	14638	15868	17015	18020	18855	19700
25°	8921	10467	11963	13390	14790	16189	17543	18832	20007	21031	21944
22.5°	9898	11513	13092	14606	16194	17717	19200	20668	22017	23196	24224
20°	10802	12537	14147	15836	17557	19209	20874	22462	23967	25390	26560
17.5°	11610	13376	15134	16914	18791	20663	22471	24192	25908	27565	29024
15°	12330	14184	15987	17928	19952	21967	23981	25876	27808	29644	31277
12.5°	12968	14882	16800	18865	20980	23077	25284	27487	29630	31608	33379
10°	13496	15483	17538	19677	21875	24091	26468	28914	31208	33310	35237
7.5°	13895	15937	18085	20305	22623	24995	27478	29969	32397	34655	36674
5°	14179	16240	18447	20714	23128	25606	28253	30910	33388	35724	37789
2.5°	14436	16511	18759	20939	23398	25968	28620	31374	33907	36307	38606
0°	14505	16621	18892	21131	23522	26101	28804	31493	34090	36697	38858
-2.5°	14436	16511	18759	20939	23398	25968	28620	31374	33907	36307	38606
-5°	14179	16240	18447	20714	23128	25606	28253	30910	33388	35724	37789
-7.5°	13895	15937	18085	20305	22623	24995	27478	29969	32397	34655	36674
-10°	13496	15483	17538	19677	21875	24091	26468	28914	31208	33310	35237
-12.5°	12968	14882	16800	18865	20980	23077	25284	27487	29630	31608	33379
-15°	12330	14184	15987	17928	19952	21967	23981	25876	27808	29644	31277
-17.5°	11610	13376	15134	16914	18791	20663	22471	24192	25908	27565	29024
-20°	10802	12537	14147	15836	17557	19209	20874	22462	23967	25390	26560



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 CATALOG NUMBER: IFLD-L-SA8C-727-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9898	11513	13092	14606	16194	17717	19200	20668	22017	23196	24224
-25°	8921	10467	11963	13390	14790	16189	17543	18832	20007	21031	21944
-27.5°	7994	9343	10742	12092	13386	14638	15868	17015	18020	18855	19700
-30°	7058	8223	9481	10738	11945	13106	14189	15194	16111	16905	17584
-32.5°	6259	7154	8232	9357	10463	11532	12605	13441	14230	14937	15542
-35°	5507	6264	7044	8012	8967	9930	10830	11674	12431	13051	13565
-37.5°	4850	5452	6108	6773	7576	8365	9150	9894	10559	11169	11656
-40°	4281	4736	5268	5791	6383	6943	7613	8205	8765	9311	9774
-42.5°	3763	4148	4534	4970	5396	5842	6314	6736	7177	7608	7966
-45°	3327	3634	3937	4277	4589	4942	5277	5612	5906	6200	6447
-47.5°	2960	3180	3437	3689	3937	4199	4442	4671	4910	5112	5282
-50°	2620	2804	3001	3185	3387	3579	3754	3928	4102	4254	4378
-52.5°	2331	2473	2625	2767	2923	3061	3189	3327	3451	3561	3653
-55°	2060	2180	2299	2414	2528	2634	2735	2836	2928	3001	3065
-57.5°	1826	1923	2015	2111	2193	2272	2350	2428	2496	2551	2597
-60°	1615	1693	1767	1840	1914	1973	2037	2093	2138	2180	2216
-62.5°	1427	1491	1551	1611	1657	1707	1758	1803	1840	1872	1895
-65°	1257	1312	1363	1409	1450	1491	1524	1556	1583	1606	1620
-67.5°	1106	1147	1189	1230	1267	1299	1322	1345	1363	1381	1390
-70°	968	1000	1033	1065	1097	1120	1138	1156	1166	1170	1170
-72.5°	835	863	890	918	941	955	968	977	987	968	941
-75°	707	730	748	766	785	794	799	799	799	762	716
-77.5°	564	592	610	624	638	642	638	638	633	592	542
-80°	454	477	491	505	519	514	509	500	496	450	404
-82.5°	344	358	367	381	390	390	386	381	372	335	294
-85°	229	234	234	234	234	234	234	234	234	211	188
-87.5°	115	115	115	115	110	115	115	119	124	110	96
-90°	0	0	0	0	0	0	0	0	0	0	0



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 CATALOG NUMBER: IFLD-L-SA8C-727-U-66

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°	78	64	60	51	60	64	78	96	110	124	119
85°	161	133	129	119	129	133	161	188	211	234	234
82.5°	257	211	202	193	202	211	257	294	335	372	381
80°	363	307	298	289	298	307	363	404	450	496	500
77.5°	491	441	422	408	422	441	491	542	592	633	638
75°	665	615	601	587	601	615	665	716	762	799	799
72.5°	909	886	849	817	849	886	909	941	968	987	977
70°	1175	1184	1175	1161	1175	1184	1175	1170	1170	1166	1156
67.5°	1395	1404	1404	1409	1404	1404	1395	1390	1381	1363	1345
65°	1634	1638	1652	1657	1652	1638	1634	1620	1606	1583	1556
62.5°	1909	1923	1932	1932	1932	1923	1909	1895	1872	1840	1803
60°	2239	2258	2281	2285	2281	2258	2239	2216	2180	2138	2093
57.5°	2634	2657	2689	2698	2689	2657	2634	2597	2551	2496	2428
55°	3111	3143	3162	3153	3162	3143	3111	3065	3001	2928	2836
52.5°	3731	3786	3823	3804	3823	3786	3731	3653	3561	3451	3327
50°	4479	4548	4593	4580	4593	4548	4479	4378	4254	4102	3928
47.5°	5415	5511	5589	5594	5589	5511	5415	5282	5112	4910	4671
45°	6645	6787	6892	6874	6892	6787	6645	6447	6200	5906	5612
42.5°	8242	8439	8595	8581	8595	8439	8242	7966	7608	7177	6736
40°	10118	10362	10568	10623	10568	10362	10118	9774	9311	8765	8205
37.5°	12050	12362	12624	12596	12624	12362	12050	11656	11169	10559	9894
35°	13991	14317	14574	14597	14574	14317	13991	13565	13051	12431	11674
32.5°	16024	16387	16690	16731	16690	16387	16024	15542	14937	14230	13441
30°	18144	18580	18943	19016	18943	18580	18144	17584	16905	16111	15194
27.5°	20374	20893	21237	21370	21237	20893	20374	19700	18855	18020	17015
25°	22673	23238	23623	23839	23623	23238	22673	21944	21031	20007	18832
22.5°	25073	25743	26243	26482	26243	25743	25073	24224	23196	22017	20668
20°	27551	28281	28864	29111	28864	28281	27551	26560	25390	23967	22462
17.5°	30075	30965	31612	31929	31612	30965	30075	29024	27565	25908	24192
15°	32525	33471	34173	34512	34173	33471	32525	31277	29644	27808	25876
12.5°	34797	35797	36499	36990	36499	35797	34797	33379	31608	29630	27487
10°	36825	37917	38629	39138	38629	37917	36825	35237	33310	31208	28914
7.5°	38344	39725	40528	41029	40528	39725	38344	36674	34655	32397	29969
5°	39510	41033	41763	42235	41763	41033	39510	37789	35724	33388	30910
2.5°	40363	41565	42479	42951	42479	41565	40363	38606	36307	33907	31374
0°	40698	42111	42758	43066	42758	42111	40698	38858	36697	34090	31493
-2.5°	40363	41565	42479	42951	42479	41565	40363	38606	36307	33907	31374
-5°	39510	41033	41763	42235	41763	41033	39510	37789	35724	33388	30910
-7.5°	38344	39725	40528	41029	40528	39725	38344	36674	34655	32397	29969
-10°	36825	37917	38629	39138	38629	37917	36825	35237	33310	31208	28914
-12.5°	34797	35797	36499	36990	36499	35797	34797	33379	31608	29630	27487
-15°	32525	33471	34173	34512	34173	33471	32525	31277	29644	27808	25876
-17.5°	30075	30965	31612	31929	31612	30965	30075	29024	27565	25908	24192
-20°	27551	28281	28864	29111	28864	28281	27551	26560	25390	23967	22462



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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°	25073	25743	26243	26482	26243	25743	25073	24224	23196	22017	20668
-25°	22673	23238	23623	23839	23623	23238	22673	21944	21031	20007	18832
-27.5°	20374	20893	21237	21370	21237	20893	20374	19700	18855	18020	17015
-30°	18144	18580	18943	19016	18943	18580	18144	17584	16905	16111	15194
-32.5°	16024	16387	16690	16731	16690	16387	16024	15542	14937	14230	13441
-35°	13991	14317	14574	14597	14574	14317	13991	13565	13051	12431	11674
-37.5°	12050	12362	12624	12596	12624	12362	12050	11656	11169	10559	9894
-40°	10118	10362	10568	10623	10568	10362	10118	9774	9311	8765	8205
-42.5°	8242	8439	8595	8581	8595	8439	8242	7966	7608	7177	6736
-45°	6645	6787	6892	6874	6892	6787	6645	6447	6200	5906	5612
-47.5°	5415	5511	5589	5594	5589	5511	5415	5282	5112	4910	4671
-50°	4479	4548	4593	4580	4593	4548	4479	4378	4254	4102	3928
-52.5°	3731	3786	3823	3804	3823	3786	3731	3653	3561	3451	3327
-55°	3111	3143	3162	3153	3162	3143	3111	3065	3001	2928	2836
-57.5°	2634	2657	2689	2698	2689	2657	2634	2597	2551	2496	2428
-60°	2239	2258	2281	2285	2281	2258	2239	2216	2180	2138	2093
-62.5°	1909	1923	1932	1932	1932	1923	1909	1895	1872	1840	1803
-65°	1634	1638	1652	1657	1652	1638	1634	1620	1606	1583	1556
-67.5°	1395	1404	1404	1409	1404	1404	1395	1390	1381	1363	1345
-70°	1175	1184	1175	1161	1175	1184	1175	1170	1170	1166	1156
-72.5°	909	886	849	817	849	886	909	941	968	987	977
-75°	665	615	601	587	601	615	665	716	762	799	799
-77.5°	491	441	422	408	422	441	491	542	592	633	638
-80°	363	307	298	289	298	307	363	404	450	496	500
-82.5°	257	211	202	193	202	211	257	294	335	372	381
-85°	161	133	129	119	129	133	161	188	211	234	234
-87.5°	78	64	60	51	60	64	78	96	110	124	119
-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°	115	115	110	115	115	115	115	101	92	83	73
85°	234	234	234	234	234	234	229	211	188	170	151
82.5°	386	390	390	381	367	358	344	312	280	252	225
80°	509	514	519	505	491	477	454	413	372	330	298
77.5°	638	642	638	624	610	592	564	523	482	441	408
75°	799	794	785	766	748	730	707	670	624	574	537
72.5°	968	955	941	918	890	863	835	803	766	725	688
70°	1138	1120	1097	1065	1033	1000	968	927	890	849	812
67.5°	1322	1299	1267	1230	1189	1147	1106	1060	1014	968	927
65°	1524	1491	1450	1409	1363	1312	1257	1202	1152	1092	1042
62.5°	1758	1707	1657	1611	1551	1491	1427	1363	1299	1234	1166
60°	2037	1973	1914	1840	1767	1693	1615	1537	1455	1381	1299
57.5°	2350	2272	2193	2111	2015	1923	1826	1725	1634	1537	1441
55°	2735	2634	2528	2414	2299	2180	2060	1941	1826	1702	1597
52.5°	3189	3061	2923	2767	2625	2473	2331	2180	2037	1895	1758
50°	3754	3579	3387	3185	3001	2804	2620	2441	2267	2102	1937
47.5°	4442	4199	3937	3689	3437	3180	2960	2744	2524	2317	2134
45°	5277	4942	4589	4277	3937	3634	3327	3061	2804	2570	2336
42.5°	6314	5842	5396	4970	4534	4148	3763	3432	3120	2831	2570
40°	7613	6943	6383	5791	5268	4736	4281	3855	3469	3125	2804
37.5°	9150	8365	7576	6773	6108	5452	4850	4323	3859	3442	3070
35°	10830	9930	8967	8012	7044	6264	5507	4846	4281	3777	3345
32.5°	12605	11532	10463	9357	8232	7154	6259	5438	4731	4153	3644
30°	14189	13106	11945	10738	9481	8223	7058	6103	5263	4534	3946
27.5°	15868	14638	13386	12092	10742	9343	7994	6778	5796	4974	4281
25°	17543	16189	14790	13390	11963	10467	8921	7549	6383	5410	4580
22.5°	19200	17717	16194	14606	13092	11513	9898	8297	6925	5842	4928
20°	20874	19209	17557	15836	14147	12537	10802	9086	7562	6287	5250
17.5°	22471	20663	18791	16914	15134	13376	11610	9848	8150	6691	5571
15°	23981	21967	19952	17928	15987	14184	12330	10508	8705	7117	5851
12.5°	25284	23077	20980	18865	16800	14882	12968	11082	9228	7530	6135
10°	26468	24091	21875	19677	17538	15483	13496	11559	9655	7865	6365
7.5°	27478	24995	22623	20305	18085	15937	13895	11926	9985	8122	6544
5°	28253	25606	23128	20714	18447	16240	14179	12188	10219	8306	6658
2.5°	28620	25968	23398	20939	18759	16511	14436	12422	10417	8480	6782
0°	28804	26101	23522	21131	18892	16621	14505	12454	10412	8503	6791
-2.5°	28620	25968	23398	20939	18759	16511	14436	12422	10417	8480	6782
-5°	28253	25606	23128	20714	18447	16240	14179	12188	10219	8306	6658
-7.5°	27478	24995	22623	20305	18085	15937	13895	11926	9985	8122	6544
-10°	26468	24091	21875	19677	17538	15483	13496	11559	9655	7865	6365
-12.5°	25284	23077	20980	18865	16800	14882	12968	11082	9228	7530	6135
-15°	23981	21967	19952	17928	15987	14184	12330	10508	8705	7117	5851
-17.5°	22471	20663	18791	16914	15134	13376	11610	9848	8150	6691	5571
-20°	20874	19209	17557	15836	14147	12537	10802	9086	7562	6287	5250



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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°	19200	17717	16194	14606	13092	11513	9898	8297	6925	5842	4928
-25°	17543	16189	14790	13390	11963	10467	8921	7549	6383	5410	4580
-27.5°	15868	14638	13386	12092	10742	9343	7994	6778	5796	4974	4281
-30°	14189	13106	11945	10738	9481	8223	7058	6103	5263	4534	3946
-32.5°	12605	11532	10463	9357	8232	7154	6259	5438	4731	4153	3644
-35°	10830	9930	8967	8012	7044	6264	5507	4846	4281	3777	3345
-37.5°	9150	8365	7576	6773	6108	5452	4850	4323	3859	3442	3070
-40°	7613	6943	6383	5791	5268	4736	4281	3855	3469	3125	2804
-42.5°	6314	5842	5396	4970	4534	4148	3763	3432	3120	2831	2570
-45°	5277	4942	4589	4277	3937	3634	3327	3061	2804	2570	2336
-47.5°	4442	4199	3937	3689	3437	3180	2960	2744	2524	2317	2134
-50°	3754	3579	3387	3185	3001	2804	2620	2441	2267	2102	1937
-52.5°	3189	3061	2923	2767	2625	2473	2331	2180	2037	1895	1758
-55°	2735	2634	2528	2414	2299	2180	2060	1941	1826	1702	1597
-57.5°	2350	2272	2193	2111	2015	1923	1826	1725	1634	1537	1441
-60°	2037	1973	1914	1840	1767	1693	1615	1537	1455	1381	1299
-62.5°	1758	1707	1657	1611	1551	1491	1427	1363	1299	1234	1166
-65°	1524	1491	1450	1409	1363	1312	1257	1202	1152	1092	1042
-67.5°	1322	1299	1267	1230	1189	1147	1106	1060	1014	968	927
-70°	1138	1120	1097	1065	1033	1000	968	927	890	849	812
-72.5°	968	955	941	918	890	863	835	803	766	725	688
-75°	799	794	785	766	748	730	707	670	624	574	537
-77.5°	638	642	638	624	610	592	564	523	482	441	408
-80°	509	514	519	505	491	477	454	413	372	330	298
-82.5°	386	390	390	381	367	358	344	312	280	252	225
-85°	234	234	234	234	234	234	229	211	188	170	151
-87.5°	115	115	110	115	115	115	115	101	92	83	73
-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°	78	83	87	87	87	83	78	73	64	60	55
85°	161	165	174	179	170	165	151	142	133	119	110
82.5°	239	248	257	257	248	239	225	211	197	179	161
80°	317	330	344	344	330	312	294	275	257	234	211
77.5°	418	427	431	436	418	399	376	344	317	289	262
75°	528	528	532	523	505	491	459	422	381	344	307
72.5°	661	638	629	615	583	555	532	500	445	395	353
70°	776	743	716	688	656	620	592	551	505	445	395
67.5°	886	844	803	766	725	688	647	597	546	491	436
65°	996	945	895	844	799	753	707	647	587	532	473
62.5°	1106	1046	987	927	872	817	766	698	629	569	505
60°	1221	1156	1088	1019	950	886	821	748	675	601	537
57.5°	1354	1262	1184	1106	1028	955	877	799	720	642	564
55°	1487	1386	1285	1198	1111	1028	936	849	762	679	592
52.5°	1629	1510	1400	1290	1193	1097	1000	909	808	716	610
50°	1785	1643	1514	1390	1276	1170	1065	959	854	753	633
47.5°	1950	1785	1634	1491	1368	1239	1124	1014	899	794	656
45°	2134	1937	1758	1602	1450	1312	1189	1065	945	821	670
42.5°	2313	2097	1895	1702	1542	1386	1253	1120	991	844	693
40°	2524	2258	2033	1826	1634	1459	1308	1170	1037	872	711
37.5°	2744	2437	2175	1937	1725	1537	1372	1216	1069	899	730
35°	2964	2620	2317	2051	1822	1615	1432	1267	1101	922	748
32.5°	3194	2804	2460	2166	1914	1693	1491	1312	1138	950	762
30°	3446	2997	2606	2276	2001	1762	1551	1358	1175	973	776
27.5°	3685	3175	2749	2395	2093	1836	1606	1404	1216	996	794
25°	3923	3368	2900	2506	2180	1900	1661	1446	1253	1023	808
22.5°	4180	3556	3038	2611	2258	1964	1712	1491	1285	1051	821
20°	4414	3726	3157	2712	2340	2028	1762	1528	1312	1078	835
17.5°	4630	3901	3304	2818	2418	2088	1803	1560	1340	1101	844
15°	4864	4075	3432	2909	2487	2138	1845	1592	1363	1124	849
12.5°	5066	4222	3543	2992	2547	2180	1877	1615	1386	1147	858
10°	5231	4341	3634	3056	2593	2216	1900	1638	1400	1161	863
7.5°	5360	4433	3703	3107	2629	2244	1923	1652	1413	1175	863
5°	5456	4502	3749	3143	2657	2267	1941	1666	1427	1193	867
2.5°	5543	4575	3786	3175	2680	2285	1955	1675	1427	1189	858
0°	5557	4589	3781	3175	2680	2290	1955	1675	1423	1184	849
-2.5°	5543	4575	3786	3175	2680	2285	1955	1675	1427	1189	858
-5°	5456	4502	3749	3143	2657	2267	1941	1666	1427	1193	867
-7.5°	5360	4433	3703	3107	2629	2244	1923	1652	1413	1175	863
-10°	5231	4341	3634	3056	2593	2216	1900	1638	1400	1161	863
-12.5°	5066	4222	3543	2992	2547	2180	1877	1615	1386	1147	858
-15°	4864	4075	3432	2909	2487	2138	1845	1592	1363	1124	849
-17.5°	4630	3901	3304	2818	2418	2088	1803	1560	1340	1101	844
-20°	4414	3726	3157	2712	2340	2028	1762	1528	1312	1078	835



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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°	4180	3556	3038	2611	2258	1964	1712	1491	1285	1051	821
-25°	3923	3368	2900	2506	2180	1900	1661	1446	1253	1023	808
-27.5°	3685	3175	2749	2395	2093	1836	1606	1404	1216	996	794
-30°	3446	2997	2606	2276	2001	1762	1551	1358	1175	973	776
-32.5°	3194	2804	2460	2166	1914	1693	1491	1312	1138	950	762
-35°	2964	2620	2317	2051	1822	1615	1432	1267	1101	922	748
-37.5°	2744	2437	2175	1937	1725	1537	1372	1216	1069	899	730
-40°	2524	2258	2033	1826	1634	1459	1308	1170	1037	872	711
-42.5°	2313	2097	1895	1702	1542	1386	1253	1120	991	844	693
-45°	2134	1937	1758	1602	1450	1312	1189	1065	945	821	670
-47.5°	1950	1785	1634	1491	1368	1239	1124	1014	899	794	656
-50°	1785	1643	1514	1390	1276	1170	1065	959	854	753	633
-52.5°	1629	1510	1400	1290	1193	1097	1000	909	808	716	610
-55°	1487	1386	1285	1198	1111	1028	936	849	762	679	592
-57.5°	1354	1262	1184	1106	1028	955	877	799	720	642	564
-60°	1221	1156	1088	1019	950	886	821	748	675	601	537
-62.5°	1106	1046	987	927	872	817	766	698	629	569	505
-65°	996	945	895	844	799	753	707	647	587	532	473
-67.5°	886	844	803	766	725	688	647	597	546	491	436
-70°	776	743	716	688	656	620	592	551	505	445	395
-72.5°	661	638	629	615	583	555	532	500	445	395	353
-75°	528	528	532	523	505	491	459	422	381	344	307
-77.5°	418	427	431	436	418	399	376	344	317	289	262
-80°	317	330	344	344	330	312	294	275	257	234	211
-82.5°	239	248	257	257	248	239	225	211	197	179	161
-85°	161	165	174	179	170	165	151	142	133	119	110
-87.5°	78	83	87	87	87	83	78	73	64	60	55
-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°	46	37	28	18	9	5	0
85°	96	73	51	32	18	9	0
82.5°	142	106	78	51	32	14	0
80°	188	142	101	69	41	18	0
77.5°	229	174	129	83	51	23	0
75°	266	202	151	101	60	28	0
72.5°	303	229	170	115	69	32	0
70°	340	257	188	133	78	37	0
67.5°	367	280	207	142	87	41	0
65°	390	303	220	151	96	41	0
62.5°	413	321	234	161	106	46	0
60°	441	340	252	170	110	51	0
57.5°	459	353	262	179	115	55	0
55°	477	372	271	188	124	60	0
52.5°	496	386	285	193	129	60	0
50°	509	399	294	197	133	64	0
47.5°	528	408	298	202	138	69	0
45°	542	422	307	207	142	69	0
42.5°	555	431	312	211	142	73	0
40°	569	436	321	220	147	78	0
37.5°	578	445	326	225	151	78	0
35°	583	450	330	229	156	83	0
32.5°	592	459	335	239	156	83	0
30°	606	459	335	243	161	83	0
27.5°	615	464	344	243	161	87	0
25°	620	464	349	248	165	87	0
22.5°	624	468	353	252	165	87	0
20°	629	473	358	257	170	92	0
17.5°	633	482	363	257	170	92	0
15°	642	486	363	257	170	96	0
12.5°	647	486	363	262	170	96	0
10°	652	491	363	262	174	92	0
7.5°	652	491	367	262	174	92	0
5°	652	496	363	262	170	92	0
2.5°	642	496	363	257	170	92	0
0°	638	491	358	257	170	92	0
-2.5°	642	496	363	257	170	92	0
-5°	652	496	363	262	170	92	0
-7.5°	652	491	367	262	174	92	0
-10°	652	491	363	262	174	92	0
-12.5°	647	486	363	262	170	96	0
-15°	642	486	363	257	170	96	0
-17.5°	633	482	363	257	170	92	0
-20°	629	473	358	257	170	92	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	624	468	353	252	165	87	0
-25°	620	464	349	248	165	87	0
-27.5°	615	464	344	243	161	87	0
-30°	606	459	335	243	161	83	0
-32.5°	592	459	335	239	156	83	0
-35°	583	450	330	229	156	83	0
-37.5°	578	445	326	225	151	78	0
-40°	569	436	321	220	147	78	0
-42.5°	555	431	312	211	142	73	0
-45°	542	422	307	207	142	69	0
-47.5°	528	408	298	202	138	69	0
-50°	509	399	294	197	133	64	0
-52.5°	496	386	285	193	129	60	0
-55°	477	372	271	188	124	60	0
-57.5°	459	353	262	179	115	55	0
-60°	441	340	252	170	110	51	0
-62.5°	413	321	234	161	106	46	0
-65°	390	303	220	151	96	41	0
-67.5°	367	280	207	142	87	41	0
-70°	340	257	188	133	78	37	0
-72.5°	303	229	170	115	69	32	0
-75°	266	202	151	101	60	28	0
-77.5°	229	174	129	83	51	23	0
-80°	188	142	101	69	41	18	0
-82.5°	142	106	78	51	32	14	0
-85°	96	73	51	32	18	9	0
-87.5°	46	37	28	18	9	5	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)