

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: P640035

Luminaire Tested: **IFLD-S-SA2A-AMB-U-77**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640035
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-AMB-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

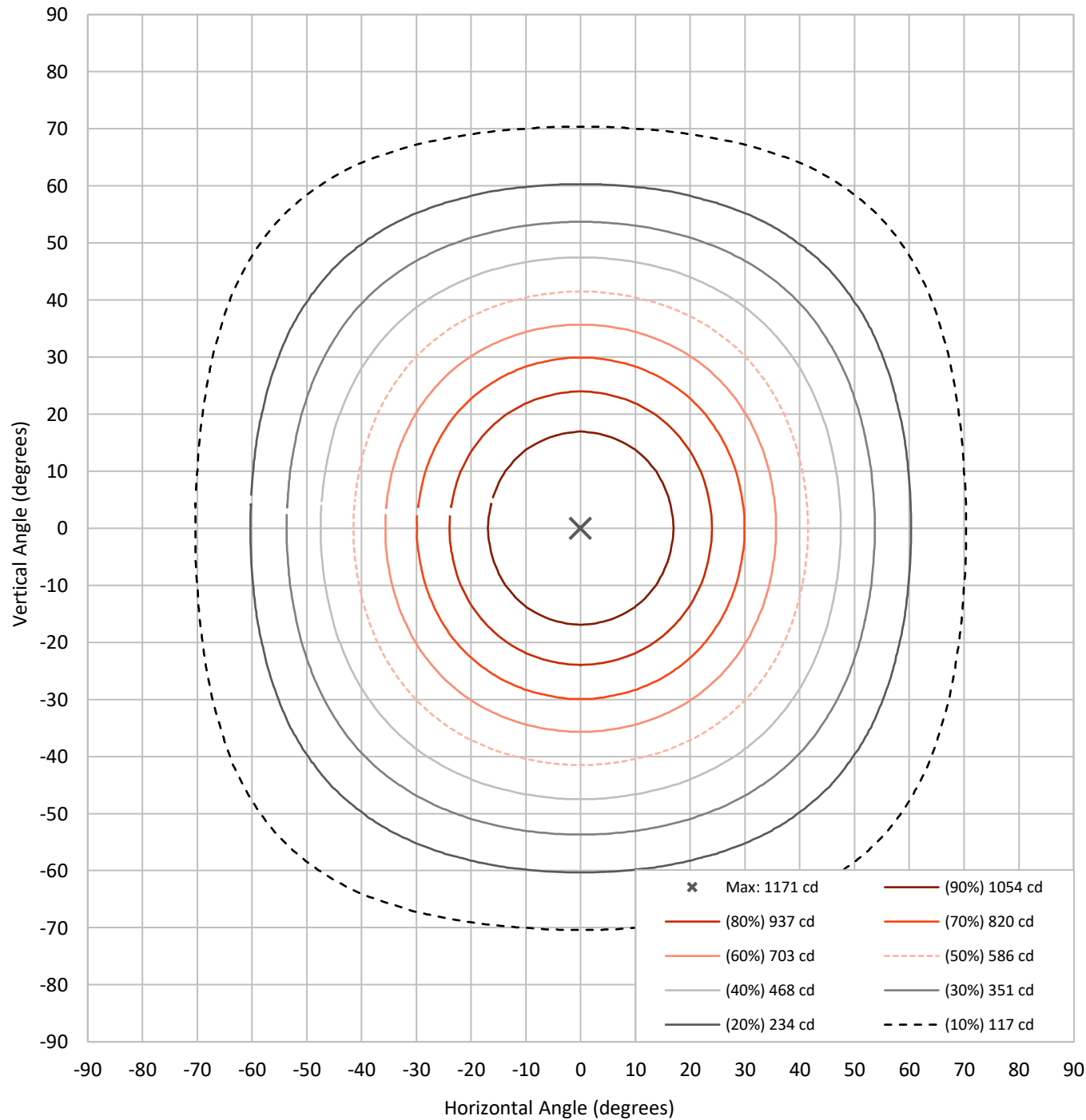
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	2250.7 lumens	Max Intensity:	1171 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	35.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	83°H x 83°V	Field Angle (10%):	140.7°H x 140.7°V
Beam Lumens:	1009.6 lumens	Field Lumens:	1609.9 lumens
Beam Efficiency:	44.9%	Field Efficiency:	71.5%
Input Watts (W):	63.8		
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		





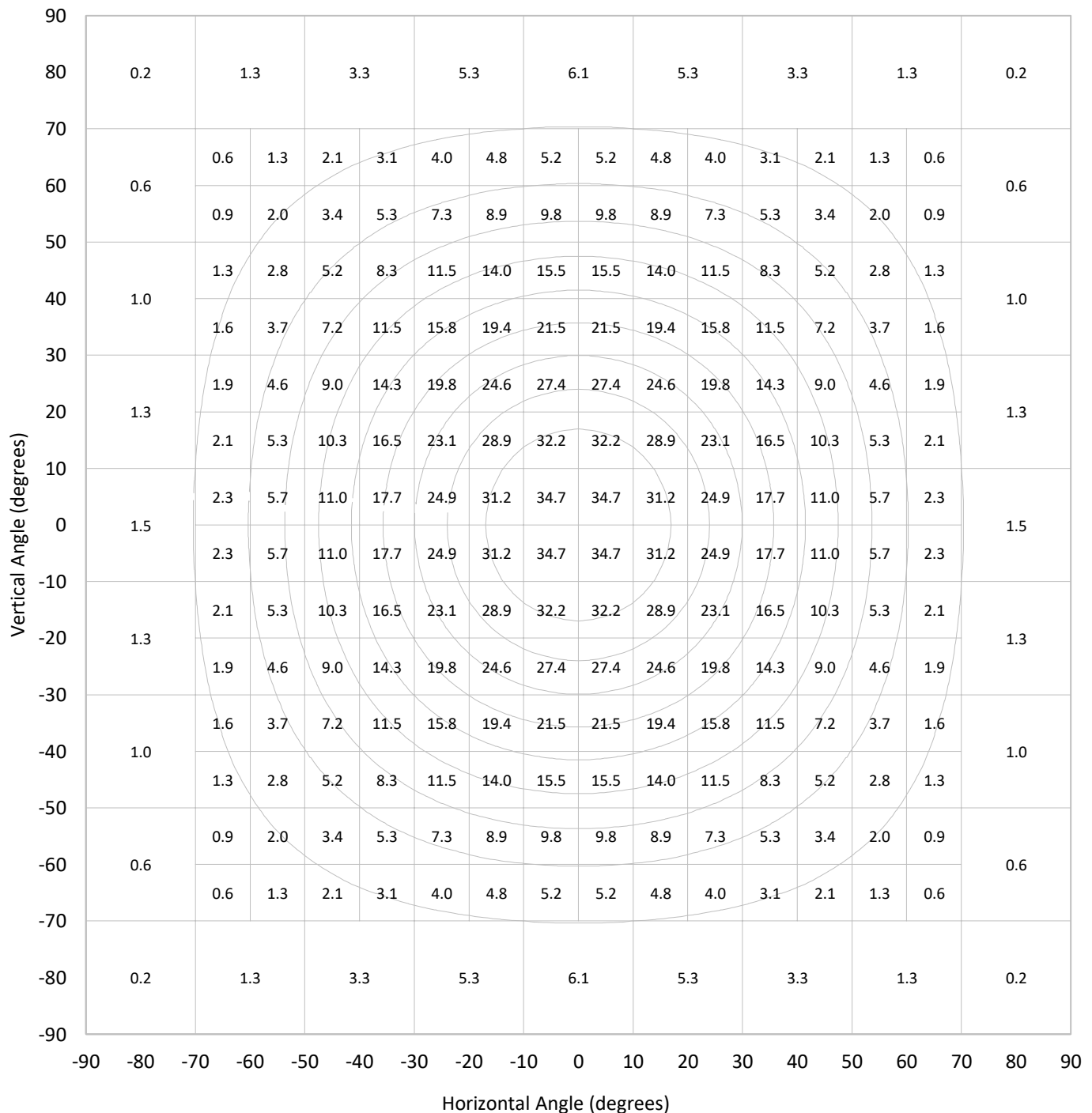
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Iso-Candela Plot



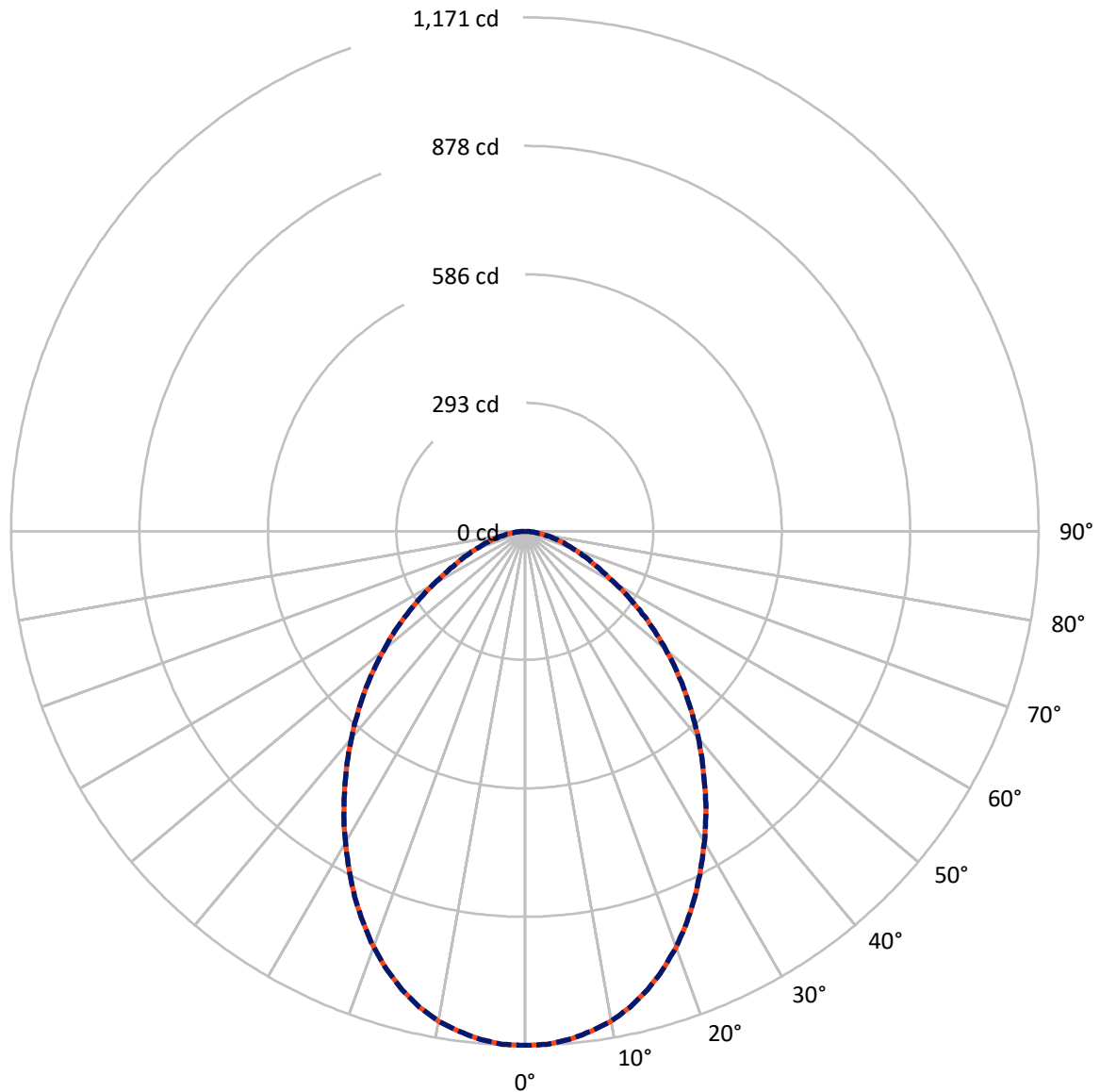
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Lumen Table



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Luminous Intensity Polar Plot

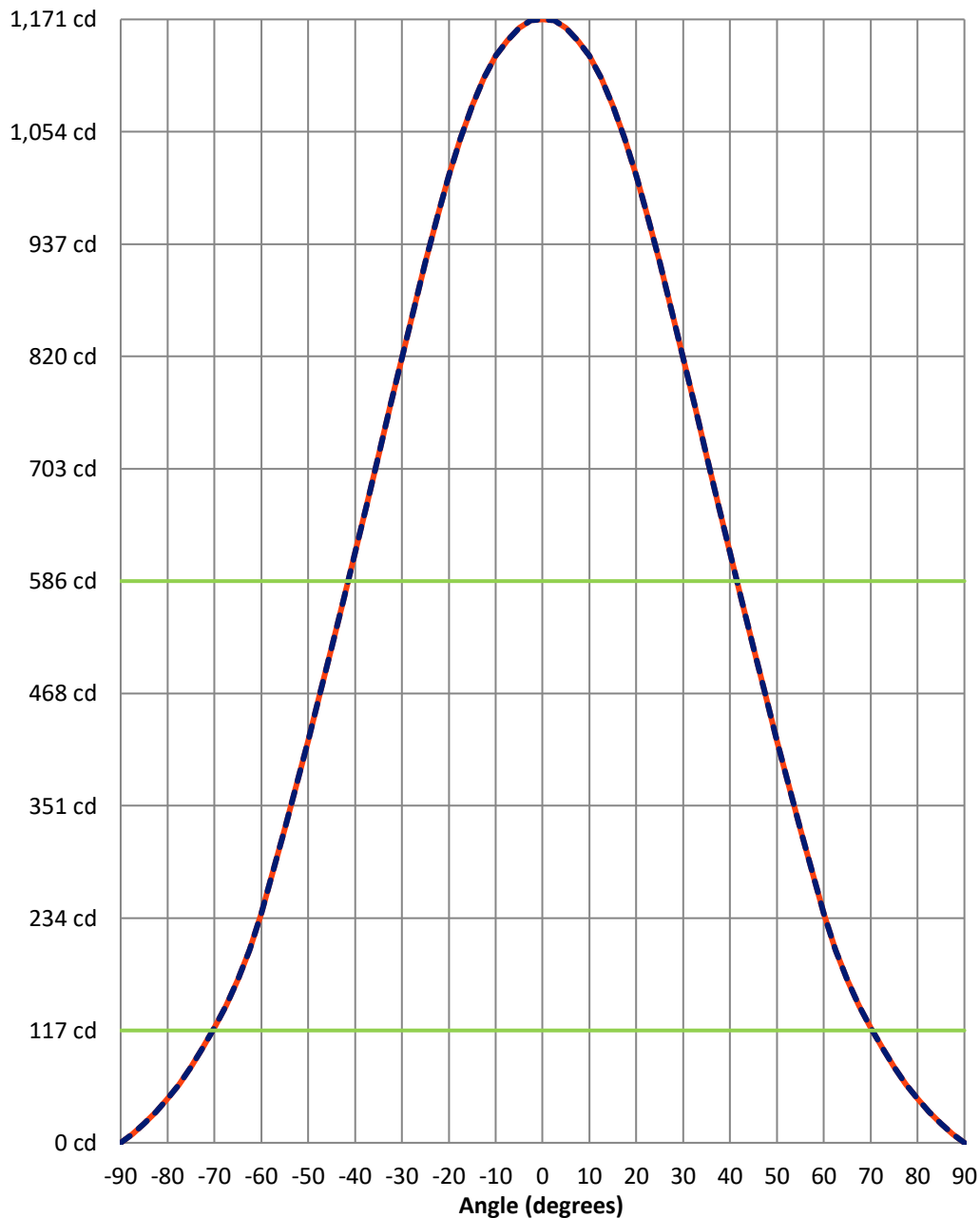


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 83°
V Angle: 83°
Lumens: 1009.6
Efficiency: 44.9%

Field:

H Angle: 140.7°
V Angle: 140.7°
Lumens: 1609.9
Efficiency: 71.5%

Spill:

Lumens: 640.7
Efficiency: 28.5%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	9	9	9	9	9	9	9	9	8	8	8
85°	20	20	20	20	20	19	19	19	19	18	18
82.5°	32	32	32	32	31	31	31	30	30	29	29
80°	46	46	46	46	45	45	44	43	43	42	41
77.5°	61	61	61	60	60	59	58	57	56	55	54
75°	79	79	79	78	77	76	75	74	72	71	69
72.5°	99	99	99	98	97	96	94	92	90	88	86
70°	120	120	120	119	117	116	114	112	109	107	104
67.5°	143	143	143	141	140	138	136	133	130	126	123
65°	170	170	169	168	166	163	160	157	153	148	143
62.5°	201	201	200	198	195	192	188	184	179	173	167
60°	239	239	237	235	231	227	222	216	209	201	194
57.5°	283	283	281	278	273	268	261	254	245	235	226
55°	327	327	324	321	316	310	303	295	285	274	262
52.5°	373	373	370	366	361	354	346	336	325	313	300
50°	419	419	416	411	406	398	389	379	367	353	339
47.5°	468	468	464	459	452	444	433	421	408	394	378
45°	516	516	512	507	499	490	479	468	451	434	416
42.5°	565	565	560	555	547	536	524	510	494	476	457
40°	615	615	610	603	594	583	570	554	536	517	496
37.5°	665	665	659	652	643	630	615	598	579	558	535
35°	716	716	710	702	691	677	661	642	622	599	574
32.5°	768	768	761	752	740	725	707	686	665	639	612
30°	818	818	810	801	789	773	753	730	705	678	649
27.5°	868	866	860	849	835	818	797	773	746	717	685
25°	918	916	909	897	882	863	840	814	786	755	721
22.5°	964	962	954	943	927	906	882	854	823	790	755
20°	1008	1005	998	985	968	947	921	891	858	823	786
17.5°	1047	1044	1036	1024	1008	984	957	926	891	854	814
15°	1081	1078	1070	1057	1040	1017	989	957	921	882	840
12.5°	1110	1107	1099	1086	1068	1045	1017	984	947	906	863
10°	1133	1130	1122	1110	1091	1068	1040	1008	968	927	882
7.5°	1149	1146	1139	1128	1110	1086	1057	1024	985	943	897
5°	1162	1159	1151	1139	1122	1099	1070	1036	998	954	909
2.5°	1170	1167	1159	1146	1130	1107	1078	1044	1005	962	916
0°	1171	1170	1162	1149	1133	1110	1081	1047	1008	964	918

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	8	8	8	7	7	7	7	6	6	6	5
85°	18	17	17	16	15	15	14	14	13	12	11
82.5°	28	27	26	25	25	24	23	21	20	19	18
80°	40	38	37	36	34	33	31	30	28	27	25
77.5°	52	51	49	47	45	43	41	39	37	35	32
75°	67	64	62	59	57	55	52	49	46	44	41
72.5°	83	80	77	74	70	67	63	60	56	53	49
70°	100	97	93	89	85	81	76	72	67	62	58
67.5°	119	115	110	105	100	95	90	85	79	74	68
65°	139	134	128	122	117	111	105	98	92	85	79
62.5°	161	155	148	140	134	127	120	112	105	97	90
60°	186	178	170	161	152	143	135	126	118	109	101
57.5°	216	205	194	184	173	162	152	141	132	122	112
55°	249	236	223	209	196	183	170	158	146	135	124
52.5°	286	271	255	239	222	206	191	176	162	149	136
50°	323	306	289	270	251	231	213	195	179	164	149
47.5°	360	342	322	302	283	260	237	217	197	179	162
45°	398	378	357	334	312	288	264	239	217	195	176
42.5°	435	413	390	367	342	316	291	264	237	213	191
40°	474	450	424	398	373	344	316	288	260	231	206
37.5°	511	485	458	429	401	373	342	312	283	251	222
35°	547	520	491	461	429	398	367	334	302	270	239
32.5°	584	554	523	491	458	424	390	357	322	289	255
30°	619	587	554	520	485	450	413	378	342	306	271
27.5°	653	619	584	547	511	474	435	398	360	323	286
25°	685	649	612	574	535	496	457	416	378	339	300
22.5°	717	678	639	599	558	517	476	434	394	353	313
20°	746	705	665	622	579	536	494	451	408	367	325
17.5°	773	730	686	642	598	554	510	468	421	379	336
15°	797	753	707	661	615	570	524	479	433	389	346
12.5°	818	773	725	677	630	583	536	490	444	398	354
10°	835	789	740	691	643	594	547	499	452	406	361
7.5°	849	801	752	702	652	603	555	507	459	411	366
5°	860	810	761	710	659	610	560	512	464	416	370
2.5°	866	818	768	716	665	615	565	516	468	419	373
0°	868	818	768	716	665	615	565	516	468	419	373

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	5	5	4	4	4	3	3	3	2	2	2
85°	11	10	9	8	8	7	6	5	5	4	3
82.5°	17	16	14	13	12	11	9	8	7	6	5
80°	23	22	20	18	17	15	13	11	9	8	6
77.5°	30	28	26	24	21	19	17	14	12	10	8
75°	38	35	32	29	26	23	20	18	15	12	9
72.5°	46	42	38	35	31	28	24	21	18	14	11
70°	54	50	45	41	37	32	28	24	20	17	13
67.5°	62	57	52	47	42	37	32	28	23	19	15
65°	72	65	59	54	48	42	37	31	26	21	17
62.5°	82	74	67	60	54	47	41	35	29	24	18
60°	92	84	75	67	59	52	45	38	32	26	20
57.5°	103	93	84	74	65	57	50	42	35	28	22
55°	113	103	92	82	72	62	54	46	38	30	23
52.5°	124	112	101	90	79	68	58	49	41	32	25
50°	135	122	109	97	85	74	62	53	44	35	27
47.5°	146	132	118	105	92	79	67	56	46	37	28
45°	158	141	126	112	98	85	72	60	49	39	30
42.5°	170	152	135	120	105	90	76	63	52	41	31
40°	183	162	143	127	111	95	81	67	55	43	33
37.5°	196	173	152	134	117	100	85	70	57	45	34
35°	209	184	161	140	122	105	89	74	59	47	36
32.5°	223	194	170	148	128	110	93	77	62	49	37
30°	236	205	178	155	134	115	97	80	64	51	38
27.5°	249	216	186	161	139	119	100	83	67	52	40
25°	262	226	194	167	143	123	104	86	69	54	41
22.5°	274	235	201	173	148	126	107	88	71	55	42
20°	285	245	209	179	153	130	109	90	72	56	43
17.5°	295	254	216	184	157	133	112	92	74	57	43
15°	303	261	222	188	160	136	114	94	75	58	44
12.5°	310	268	227	192	163	138	116	96	76	59	45
10°	316	273	231	195	166	140	117	97	77	60	45
7.5°	321	278	235	198	168	141	119	98	78	60	46
5°	324	281	237	200	169	143	120	99	79	61	46
2.5°	327	283	239	201	170	143	120	99	79	61	46
0°	327	283	239	201	170	143	120	99	79	61	46



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0	0	0	0
87.5°	1	1	0	0
85°	2	2	1	0
82.5°	4	2	1	0
80°	5	3	2	0
77.5°	6	4	2	0
75°	7	5	2	0
72.5°	8	5	3	0
70°	9	6	3	0
67.5°	11	7	3	0
65°	12	8	4	0
62.5°	13	8	4	0
60°	14	9	4	0
57.5°	16	10	5	0
55°	17	11	5	0
52.5°	18	11	5	0
50°	19	12	6	0
47.5°	20	13	6	0
45°	21	14	6	0
42.5°	23	14	7	0
40°	24	15	7	0
37.5°	25	15	7	0
35°	25	16	7	0
32.5°	26	17	8	0
30°	27	17	8	0
27.5°	28	18	8	0
25°	29	18	8	0
22.5°	29	18	8	0
20°	30	19	8	0
17.5°	30	19	9	0
15°	31	19	9	0
12.5°	31	19	9	0
10°	31	20	9	0
7.5°	32	20	9	0
5°	32	20	9	0
2.5°	32	20	9	0
0°	32	20	9	0

(END OF REPORT)