

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: P640047

Luminaire Tested: **IFLD-S-SA2A-AMB-U-55**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640047
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-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

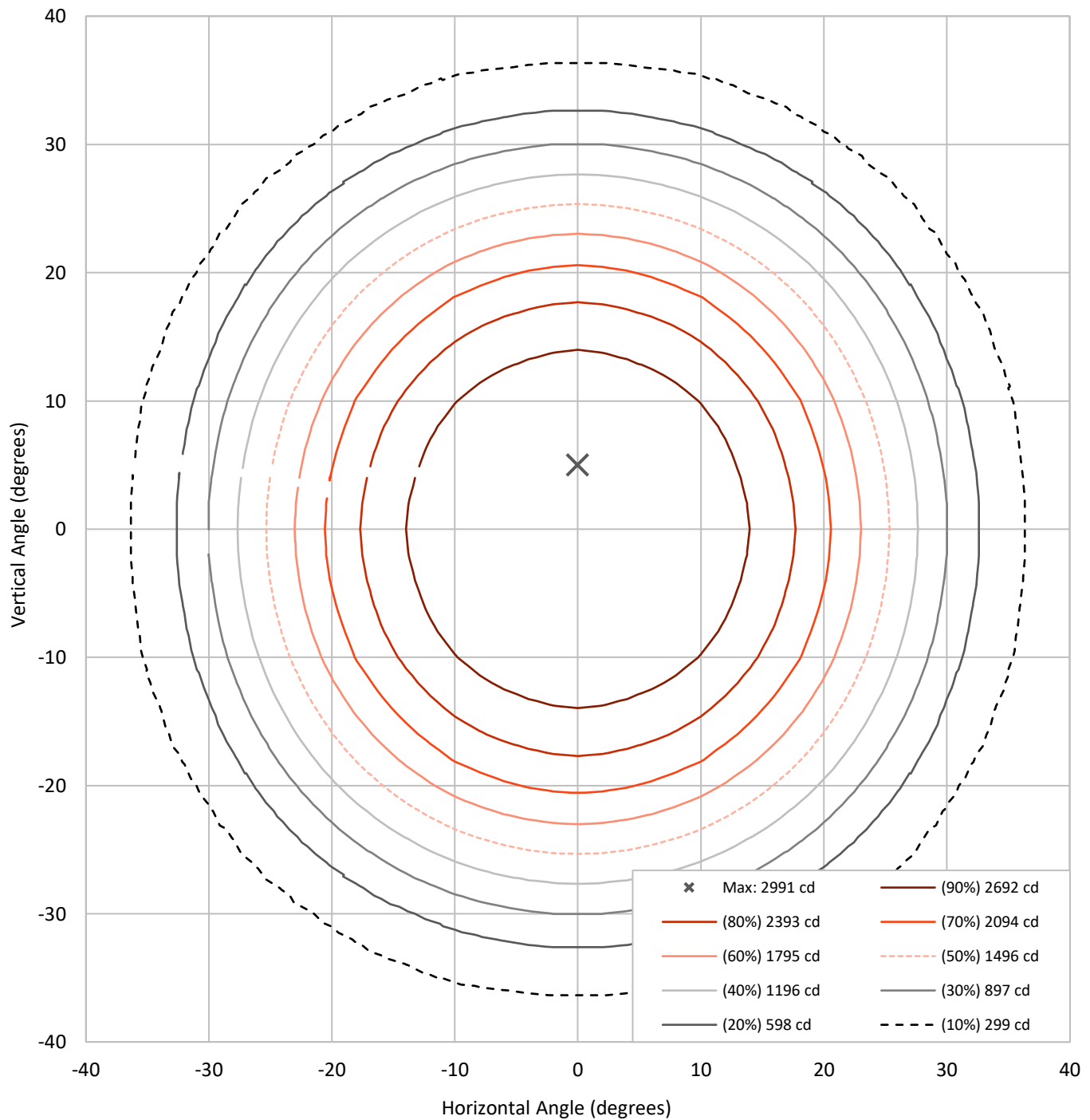
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	2229.4 lumens	Max Intensity:	2991 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	34.9 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	49.8°H x 50.7°V	Field Angle (10%):	72.2°H x 72.6°V
Beam Lumens:	1073.7 lumens	Field Lumens:	1427.9 lumens
Beam Efficiency:	48.2%	Field Efficiency:	64.0%
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		



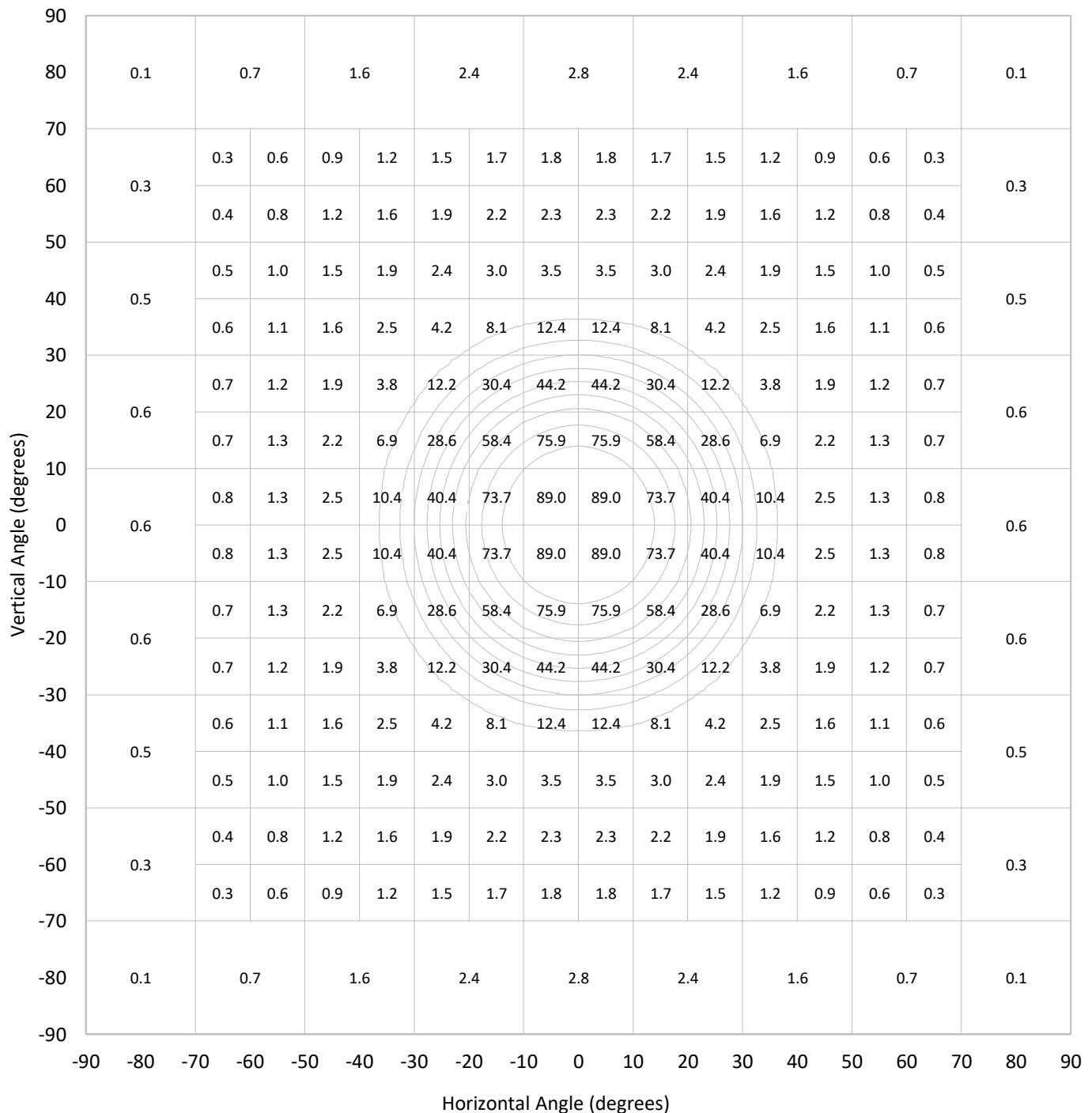
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Iso-Candela Plot



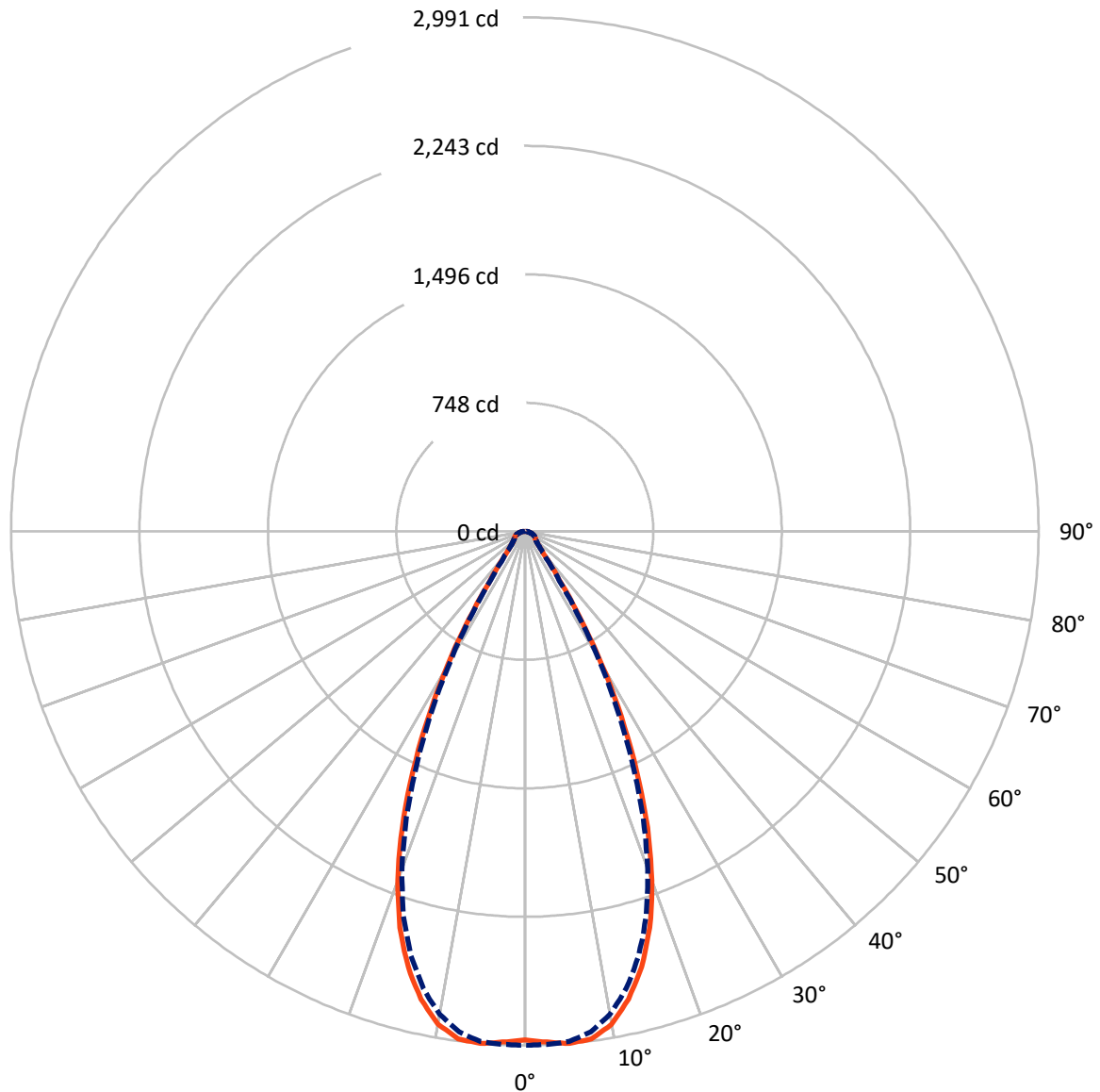
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Lumen Table



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Luminous Intensity Polar Plot

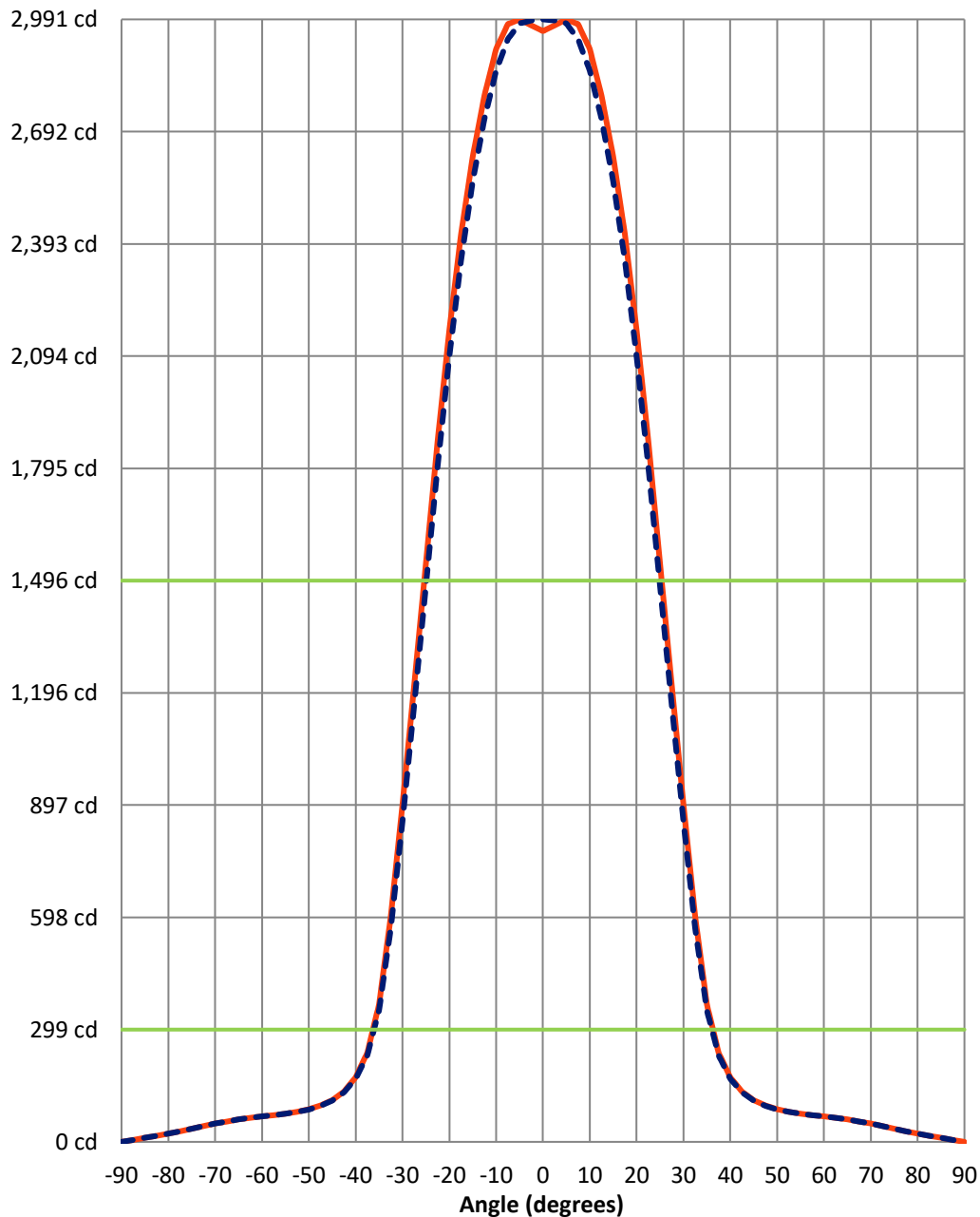


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 5-Deg

Beam:

H Angle: 49.8°
V Angle: 50.7°
Lumens: 1073.7
Efficiency: 48.2%

Field:

H Angle: 72.2°
V Angle: 72.6°
Lumens: 1427.9
Efficiency: 64.0%

Spill:

Lumens: 801.5
Efficiency: 36.0%

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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°	5	5	5	5	5	5	5	5	5	5	5
85°	11	11	11	11	11	11	11	10	10	10	10
82.5°	16	16	16	16	16	16	15	15	15	15	15
80°	22	22	22	22	22	21	21	21	21	20	20
77.5°	28	28	28	28	28	27	27	27	26	26	25
75°	35	35	35	35	34	34	34	33	32	32	31
72.5°	42	42	42	42	41	41	40	40	39	38	37
70°	49	49	49	49	48	48	47	46	45	45	44
67.5°	54	54	54	54	53	53	52	52	51	50	50
65°	60	60	60	59	59	58	58	57	56	55	54
62.5°	64	64	64	64	63	63	62	62	61	60	59
60°	68	68	68	68	67	67	66	66	65	64	63
57.5°	71	71	71	71	70	70	70	69	68	68	67
55°	75	75	75	74	74	73	73	72	71	70	70
52.5°	80	80	80	79	79	78	77	76	75	74	73
50°	87	87	86	86	85	84	82	81	79	78	76
47.5°	97	97	96	95	94	92	90	87	85	83	81
45°	111	111	110	108	106	103	100	97	94	90	87
42.5°	134	134	132	129	125	121	115	109	105	99	95
40°	172	172	168	163	156	148	137	129	121	111	105
37.5°	238	238	231	221	208	192	173	159	145	131	120
35°	367	367	351	331	304	269	233	208	181	160	141
32.5°	601	601	569	530	475	407	344	292	238	203	170
30°	899	899	854	799	723	628	533	431	340	271	217
27.5°	1217	1204	1164	1099	1010	899	775	634	504	370	290
25°	1541	1526	1481	1407	1307	1183	1038	876	707	541	388
22.5°	1867	1850	1799	1716	1604	1466	1305	1125	930	732	541
20°	2162	2144	2092	2008	1894	1743	1565	1368	1155	930	707
17.5°	2418	2400	2348	2265	2162	1998	1816	1599	1368	1125	876
15°	2625	2608	2559	2482	2371	2220	2033	1816	1565	1305	1038
12.5°	2788	2772	2726	2655	2546	2407	2220	1998	1743	1466	1183
10°	2912	2897	2854	2789	2683	2546	2371	2162	1894	1604	1307
7.5°	2978	2967	2938	2883	2789	2655	2482	2265	2008	1716	1407
5°	2991	2988	2980	2938	2854	2726	2559	2348	2092	1799	1481
2.5°	2975	2982	2988	2967	2897	2772	2608	2400	2144	1850	1526
0°	2960	2975	2991	2978	2912	2788	2625	2418	2162	1867	1541

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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°	4	4	4	4	4	4	4	4	3	3	3
85°	10	9	9	9	9	8	8	7	7	7	6
82.5°	14	14	14	13	13	12	12	12	11	11	10
80°	19	19	18	18	17	16	16	15	14	14	13
77.5°	25	24	23	23	22	21	20	19	18	17	16
75°	30	29	28	27	26	25	24	23	22	21	20
72.5°	36	35	34	33	32	30	29	27	26	25	23
70°	42	41	40	39	37	36	34	32	30	29	27
67.5°	49	47	46	44	42	41	39	37	35	33	31
65°	53	52	51	50	48	46	44	42	39	37	35
62.5°	58	57	55	53	52	50	49	46	44	41	39
60°	62	61	60	58	56	54	52	50	48	45	43
57.5°	66	64	63	62	60	58	56	54	52	49	46
55°	69	68	66	65	63	62	60	57	55	52	50
52.5°	71	70	69	68	66	64	63	61	58	55	53
50°	75	73	72	70	69	67	65	63	61	59	55
47.5°	79	77	75	73	71	69	68	66	63	61	58
45°	84	81	78	76	74	71	70	68	66	63	61
42.5°	90	86	83	79	77	74	72	70	68	65	63
40°	99	93	88	84	80	77	74	71	69	67	64
37.5°	109	102	95	89	84	80	77	74	71	69	66
35°	126	113	104	96	89	84	79	76	73	70	68
32.5°	148	129	114	104	95	88	83	78	75	72	69
30°	177	151	129	113	102	93	86	81	77	73	70
27.5°	222	177	148	126	109	99	90	84	79	75	71
25°	290	217	170	141	120	105	95	87	81	76	73
22.5°	370	271	203	160	131	111	99	90	83	78	74
20°	504	340	238	181	145	121	105	94	85	79	75
17.5°	634	431	292	208	159	129	109	97	87	81	76
15°	775	533	344	233	173	137	115	100	90	82	77
12.5°	899	628	407	269	192	148	121	103	92	84	78
10°	1010	723	475	304	208	156	125	106	94	85	79
7.5°	1099	799	530	331	221	163	129	108	95	86	79
5°	1164	854	569	351	231	168	132	110	96	86	80
2.5°	1204	899	601	367	238	172	134	111	97	87	80
0°	1217	899	601	367	238	172	134	111	97	87	80

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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°	3	3	2	2	2	2	2	2	1	1	1
85°	6	5	5	5	4	4	3	3	3	2	2
82.5°	9	9	8	7	7	6	5	4	4	3	3
80°	12	12	11	10	9	8	7	6	5	4	3
77.5°	15	14	13	12	11	10	9	8	7	5	4
75°	18	17	16	15	14	12	11	10	8	7	5
72.5°	22	20	19	17	16	14	13	11	10	8	6
70°	25	23	22	20	18	16	14	13	11	9	7
67.5°	29	26	24	22	20	18	16	14	12	10	8
65°	32	30	27	25	23	20	18	16	14	11	9
62.5°	36	33	30	28	25	22	20	17	15	12	10
60°	40	37	34	30	27	24	22	19	16	13	11
57.5°	43	40	37	33	30	26	23	20	17	14	12
55°	47	43	40	36	32	29	25	22	18	15	12
52.5°	50	46	43	39	35	31	27	23	20	16	13
50°	52	49	45	41	37	33	29	25	21	17	14
47.5°	55	52	48	44	39	35	30	26	22	18	14
45°	57	54	50	46	42	37	32	27	23	19	15
42.5°	60	56	52	49	44	39	34	29	24	20	16
40°	62	58	54	50	46	41	36	30	25	21	16
37.5°	63	60	56	52	48	42	37	32	26	22	17
35°	65	62	58	53	50	44	39	33	27	23	18
32.5°	66	63	60	55	51	46	40	34	28	23	18
30°	68	64	61	57	52	47	41	35	29	24	19
27.5°	69	66	62	58	53	49	42	36	30	25	19
25°	70	67	63	59	54	50	44	37	31	25	20
22.5°	70	68	64	60	55	50	45	38	32	26	20
20°	71	68	65	61	56	51	45	39	32	26	21
17.5°	72	69	66	62	57	52	46	40	33	27	21
15°	73	70	66	62	58	52	47	40	34	27	21
12.5°	73	70	67	63	58	53	48	41	34	27	21
10°	74	70	67	63	59	53	48	41	34	28	22
7.5°	74	71	68	64	59	54	49	42	35	28	22
5°	75	71	68	64	60	54	49	42	35	28	22
2.5°	75	71	68	64	60	54	49	42	35	28	22
0°	75	71	68	64	60	54	49	42	35	28	22

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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)