

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: P639990

Luminaire Tested: **IFLD-M-SA4A-AMB-U-77-VI**

Issue Date: 02/09/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639990  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/09/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-AMB-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 7 distribution lens and VISOR  
Light Source: (64) 1620K CCT, 0 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

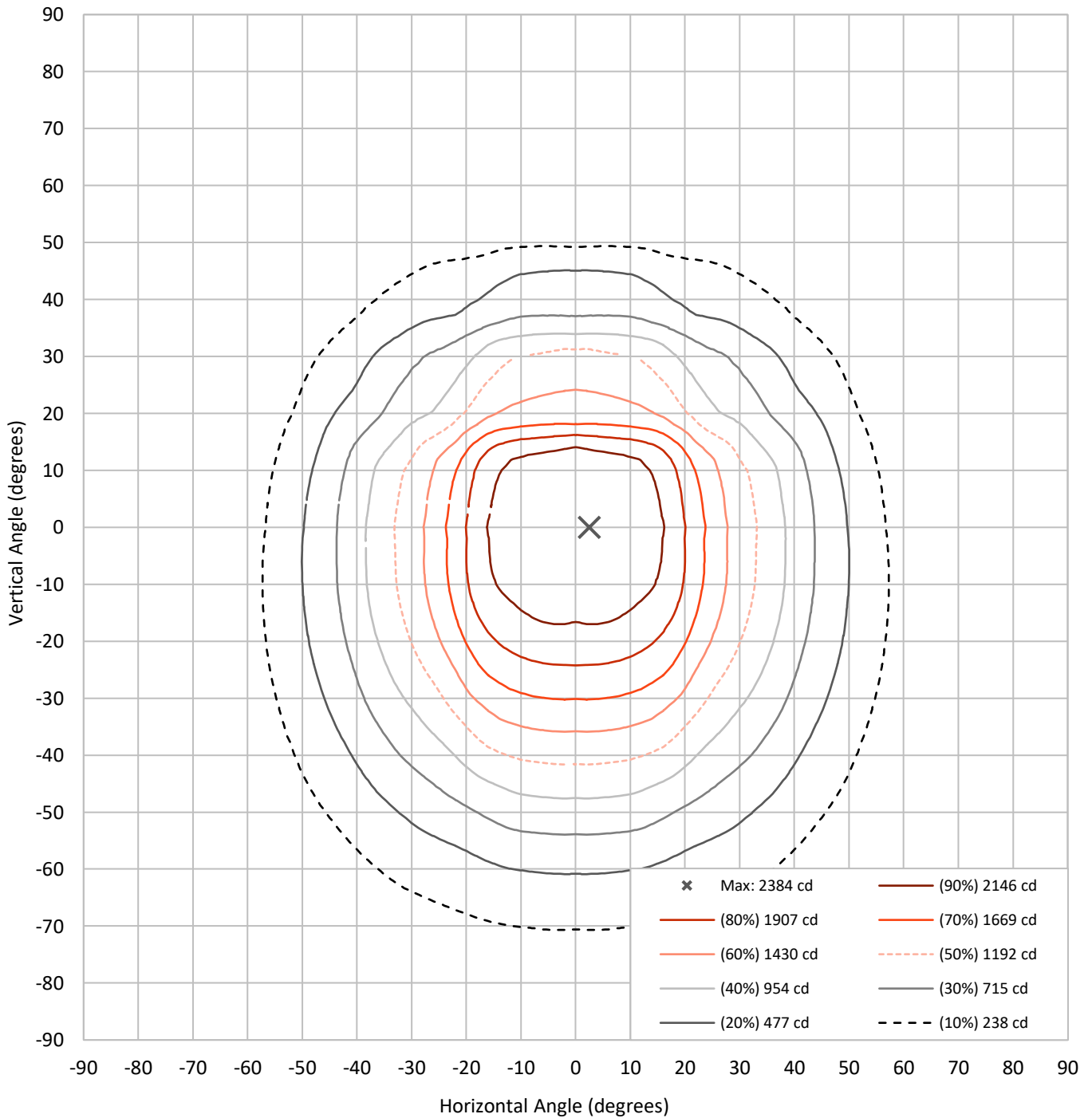
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	3324.6 lumens	Max Intensity:	2384 candela
Efficiency:	N/A	Max Intensity Angle:	2.5°H x 0°V
Efficacy:	25.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	66.3°H x 73°V	Field Angle (10%):	113.5°H x 120°V
Beam Lumens:	1940.5 lumens	Field Lumens:	3160.5 lumens
Beam Efficiency:	58.4%	Field Efficiency:	95.1%
Input Watts (W):	128.6		
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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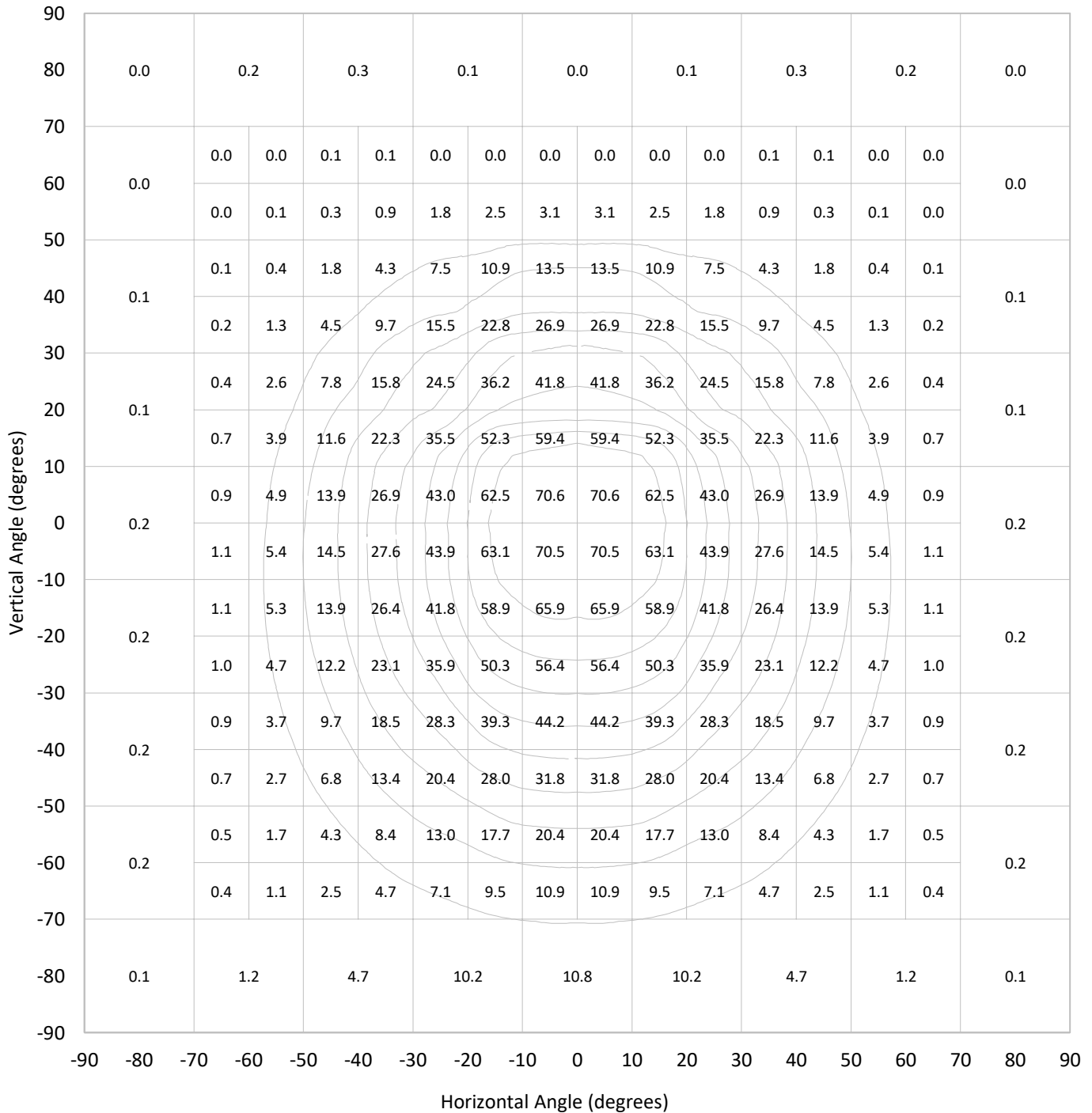
### Iso-Candela Plot





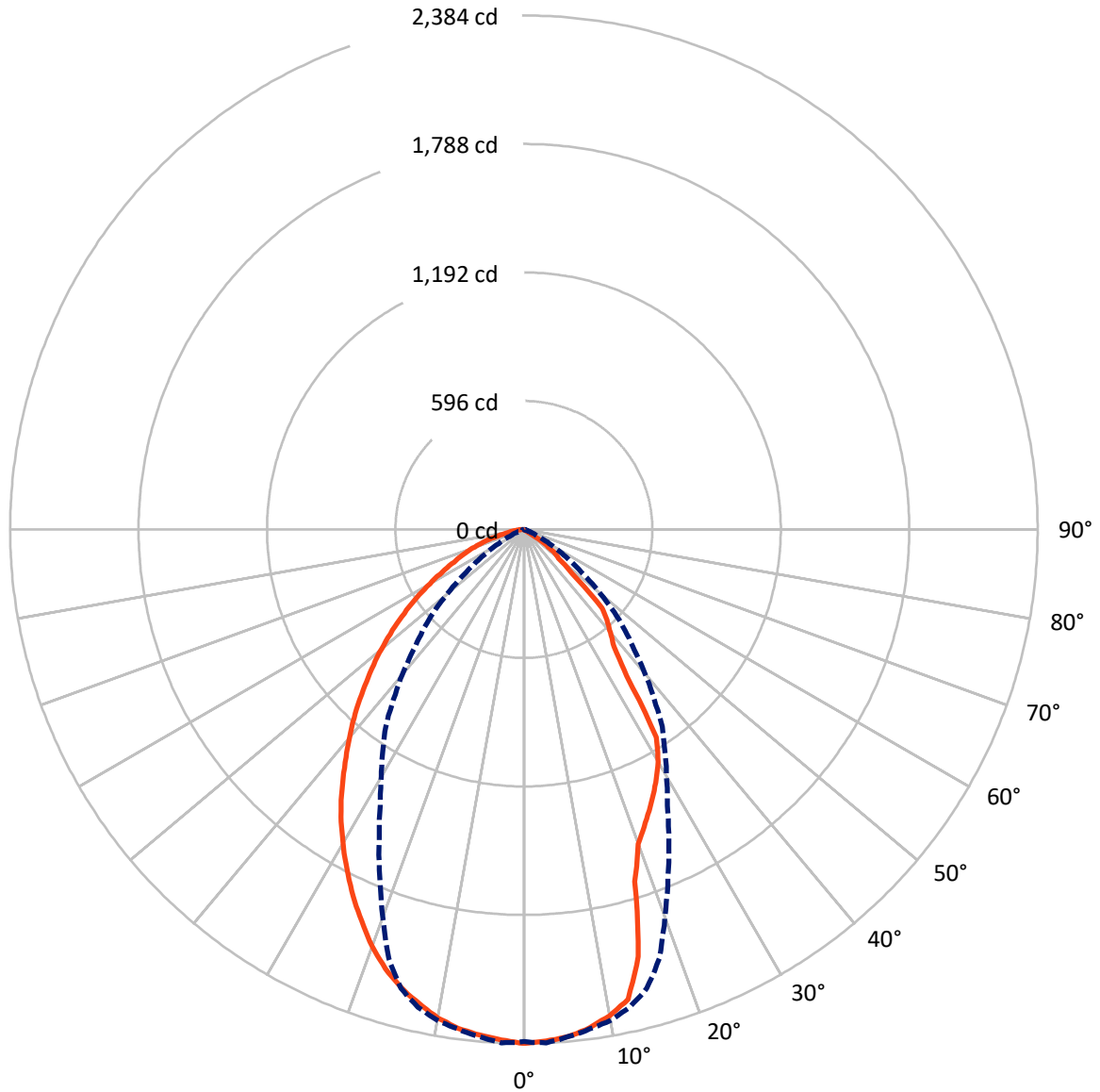
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### Lumen Table



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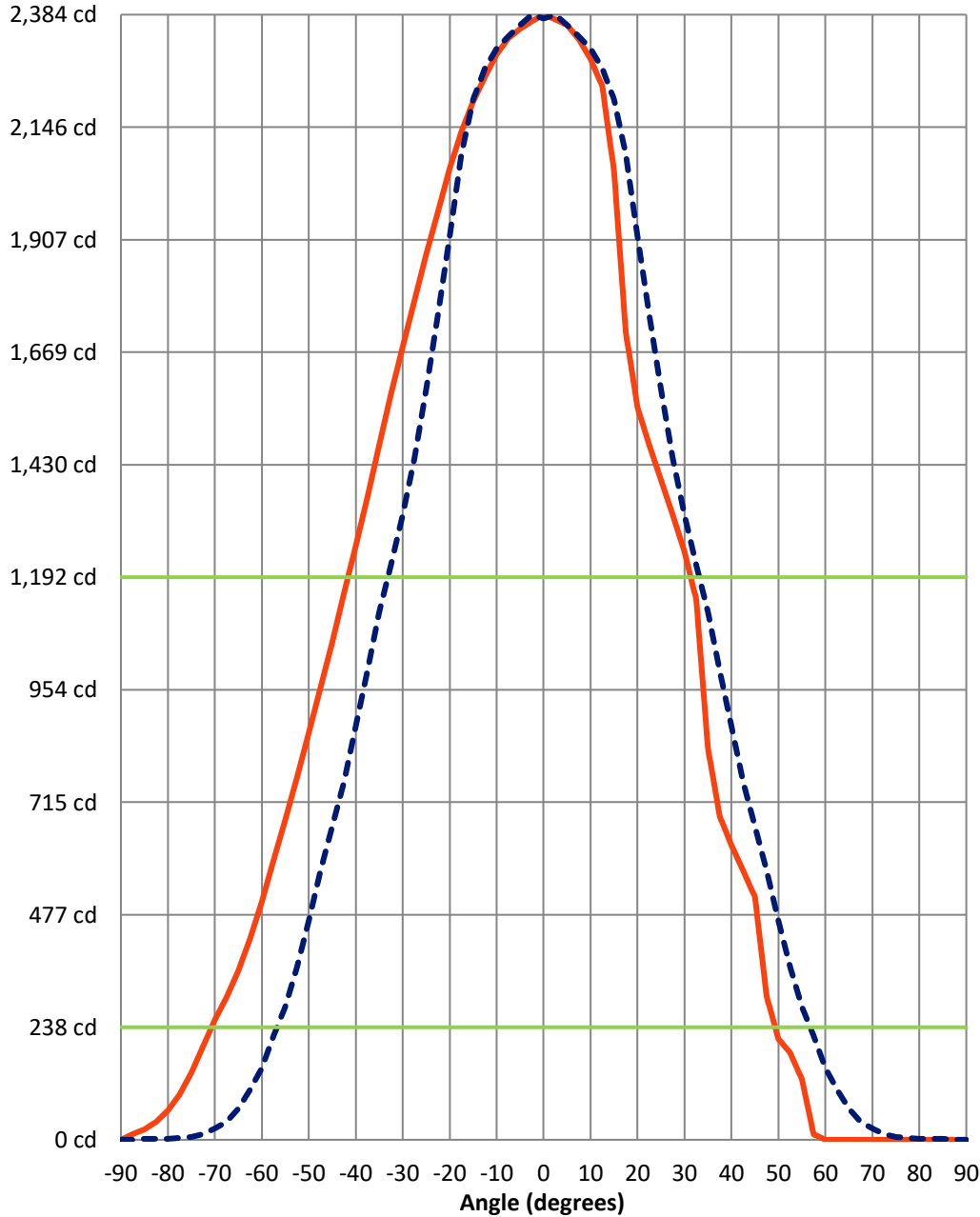
### Luminous Intensity Polar Plot



— Vertical Distribution Through 2.5-Deg    - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 66.3°  
V Angle: 73°  
Lumens: 1940.5  
Efficiency: 58.4%

**Field:**  
H Angle: 113.5°  
V Angle: 120°  
Lumens: 3160.5  
Efficiency: 95.1%

**Spill:**  
Lumens: 164.1  
Efficiency: 4.9%

— Vertical Distribution through 2.5-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°	0	0	0	0	0	0	0	0	0	2	2
85°	0	0	0	0	0	0	0	0	2	2	2
82.5°	0	0	0	0	0	0	0	0	2	2	2
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	2	2	2
60°	0	0	0	0	2	2	2	4	4	2	4
57.5°	10	12	12	14	14	14	24	26	20	16	20
55°	116	128	128	116	104	88	84	84	90	78	62
52.5°	182	184	178	170	160	150	142	134	126	116	102
50°	212	214	212	210	204	196	182	164	150	152	138
47.5°	292	304	312	320	318	298	266	234	222	216	204
45°	512	514	498	482	464	428	390	364	324	302	294
42.5°	568	570	564	556	546	510	466	416	392	370	348
40°	622	624	618	610	598	566	524	480	442	406	386
37.5°	686	686	686	682	672	648	602	560	506	450	446
35°	818	830	844	846	834	804	752	698	618	556	546
32.5°	1134	1144	1112	1082	1050	1034	976	868	806	708	658
30°	1250	1246	1230	1212	1192	1166	1090	992	898	824	758
27.5°	1326	1324	1312	1294	1272	1242	1170	1076	978	888	818
25°	1404	1398	1384	1366	1344	1310	1250	1160	1052	950	872
22.5°	1482	1472	1454	1438	1414	1384	1336	1238	1120	1018	930
20°	1560	1552	1538	1526	1500	1468	1422	1328	1210	1098	992
17.5°	1706	1712	1710	1698	1668	1642	1608	1490	1372	1218	1112
15°	2082	2052	2020	1990	1978	1922	1870	1724	1582	1400	1286
12.5°	2260	2232	2214	2196	2154	2120	2028	1894	1714	1548	1436
10°	2314	2290	2286	2258	2226	2176	2104	1974	1790	1626	1484
7.5°	2352	2332	2318	2298	2268	2216	2144	2012	1840	1672	1520
5°	2376	2362	2344	2324	2292	2242	2168	2044	1870	1702	1550
2.5°	2382	2374	2360	2330	2300	2252	2178	2060	1886	1718	1566
0°	2376	2384	2362	2338	2312	2270	2204	2088	1914	1748	1590
-2.5°	2330	2370	2362	2332	2300	2252	2180	2072	1900	1726	1574
-5°	2330	2354	2338	2332	2298	2250	2182	2074	1910	1736	1580
-7.5°	2314	2334	2318	2298	2280	2232	2166	2060	1904	1732	1576
-10°	2278	2300	2290	2268	2232	2196	2138	2046	1884	1714	1562
-12.5°	2236	2252	2248	2226	2188	2146	2092	2004	1852	1686	1534
-15°	2186	2200	2198	2174	2136	2090	2030	1942	1804	1648	1506
-17.5°	2124	2136	2134	2108	2076	2028	1968	1882	1746	1598	1462
-20°	2046	2058	2054	2030	1998	1956	1898	1808	1682	1542	1414



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
-22.5°	1968	1966	1964	1946	1916	1876	1826	1730	1608	1478	1358
-25°	1880	1876	1872	1856	1826	1788	1736	1656	1534	1404	1290
-27.5°	1772	1778	1774	1758	1732	1696	1640	1572	1458	1334	1220
-30°	1674	1680	1672	1658	1632	1600	1544	1472	1376	1262	1158
-32.5°	1578	1580	1568	1554	1530	1498	1450	1372	1282	1182	1090
-35°	1466	1472	1462	1448	1428	1398	1360	1280	1190	1096	1018
-37.5°	1358	1362	1356	1344	1326	1296	1260	1192	1104	1016	946
-40°	1260	1258	1250	1240	1224	1194	1158	1102	1022	942	872
-42.5°	1154	1158	1150	1140	1126	1094	1056	1010	938	868	802
-45°	1054	1054	1048	1040	1026	996	954	912	850	792	738
-47.5°	956	958	952	942	930	902	860	814	764	716	668
-50°	858	862	856	848	836	812	772	726	680	640	600
-52.5°	766	768	762	754	744	726	686	646	602	568	534
-55°	676	678	674	666	656	640	606	568	530	496	468
-57.5°	590	592	586	578	568	556	526	492	456	426	402
-60°	502	504	502	494	484	472	448	420	392	366	346
-62.5°	428	426	420	414	406	396	378	356	334	312	294
-65°	356	358	356	348	340	332	320	302	286	268	254
-67.5°	304	302	302	294	288	282	270	258	244	230	216
-70°	252	254	254	246	242	236	228	218	206	196	184
-72.5°	196	198	200	196	196	194	190	182	174	166	158
-75°	138	142	144	148	150	154	156	150	142	136	130
-77.5°	92	96	98	104	110	114	118	116	112	108	104
-80°	60	62	64	72	76	82	88	86	84	82	80
-82.5°	36	38	40	46	52	56	62	60	60	58	58
-85°	20	22	24	28	32	36	38	36	36	34	32
-87.5°	10	12	12	14	16	16	18	16	16	16	14
-90°	0	0	0	0	0	0	0	0	0	0	0





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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°	2	2	2	2	2	2	2	2	2	2	2
85°	2	2	4	4	4	4	4	4	4	4	4
82.5°	2	2	2	4	4	4	4	4	4	4	4
80°	2	2	2	2	2	4	4	4	4	4	4
77.5°	0	2	2	2	2	4	4	4	4	4	4
75°	0	2	2	2	2	4	4	4	4	4	2
72.5°	0	2	2	2	2	4	4	4	4	2	2
70°	0	2	2	2	2	4	4	4	4	2	2
67.5°	0	2	2	2	2	2	2	4	4	2	2
65°	0	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	4	4	4	4	4	2	2	4	4	2	2
57.5°	20	12	10	12	10	10	6	4	4	4	4
55°	52	50	38	28	24	20	14	10	6	6	6
52.5°	86	74	68	58	46	38	28	20	12	8	6
50°	116	108	98	86	72	60	48	34	24	16	10
47.5°	184	160	144	128	104	88	74	58	40	26	18
45°	264	224	196	180	150	120	100	86	62	40	28
42.5°	324	288	246	216	188	158	128	108	86	60	38
40°	366	332	294	262	222	190	160	136	112	84	52
37.5°	420	386	350	318	274	222	194	168	140	108	74
35°	530	466	424	384	334	278	230	202	170	134	98
32.5°	648	592	510	460	410	338	282	236	200	162	120
30°	722	666	596	534	466	396	334	276	232	188	144
27.5°	766	722	656	584	516	442	380	322	260	212	166
25°	814	762	710	630	556	482	418	364	290	234	186
22.5°	858	810	756	678	594	522	468	404	328	258	206
20°	934	884	814	726	648	586	522	450	364	280	224
17.5°	1058	986	888	800	726	652	576	504	400	308	248
15°	1206	1100	988	886	802	720	632	546	440	344	272
12.5°	1308	1182	1080	974	878	782	676	578	476	374	294
10°	1356	1242	1150	1042	920	808	704	606	506	400	316
7.5°	1388	1276	1174	1070	944	832	726	628	532	422	338
5°	1408	1292	1190	1088	962	848	740	648	552	440	352
2.5°	1420	1308	1206	1108	982	866	754	660	566	456	362
0°	1444	1324	1218	1118	994	876	758	664	570	464	366
-2.5°	1434	1318	1212	1118	998	878	766	666	574	476	374
-5°	1442	1320	1210	1110	994	872	764	662	572	480	376
-7.5°	1440	1320	1210	1106	994	874	764	662	572	480	378
-10°	1430	1312	1202	1098	986	870	760	658	568	476	380
-12.5°	1410	1296	1186	1082	972	858	748	650	562	470	378
-15°	1382	1270	1162	1060	954	842	732	638	552	460	374
-17.5°	1346	1238	1132	1032	930	822	716	628	538	450	364
-20°	1300	1198	1100	1002	902	796	696	606	522	436	354



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
-22.5°	1248	1156	1060	966	870	766	670	584	502	420	342
-25°	1196	1108	1018	928	834	736	642	558	480	402	328
-27.5°	1134	1052	970	886	798	704	614	534	458	380	312
-30°	1070	994	920	846	758	668	582	506	432	360	294
-32.5°	1008	936	868	794	716	628	550	476	404	336	272
-35°	946	880	814	744	666	586	514	442	376	312	254
-37.5°	882	822	760	692	618	546	474	410	350	288	234
-40°	816	762	708	642	576	504	436	376	320	264	218
-42.5°	752	702	650	592	528	462	400	344	292	244	200
-45°	688	640	592	540	478	416	364	314	266	222	182
-47.5°	622	580	532	482	428	374	326	282	238	198	164
-50°	560	520	476	426	376	332	290	250	210	176	146
-52.5°	502	464	420	376	332	292	256	220	184	156	132
-55°	438	408	368	330	292	258	224	194	164	138	116
-57.5°	378	354	322	288	256	226	200	172	146	124	104
-60°	326	304	278	250	224	200	176	152	130	110	92
-62.5°	278	260	240	218	196	174	154	134	114	96	82
-65°	238	222	206	188	168	150	132	114	100	84	72
-67.5°	204	190	176	160	144	128	114	100	86	74	64
-70°	172	162	150	136	124	110	96	86	74	64	56
-72.5°	148	138	128	116	106	94	84	74	64	56	48
-75°	122	114	106	96	86	76	66	58	52	46	42
-77.5°	98	90	82	76	66	58	50	44	40	36	34
-80°	74	70	64	58	50	42	36	30	28	28	26
-82.5°	54	50	46	42	36	32	26	22	20	20	18
-85°	30	30	28	26	24	20	16	14	14	12	12
-87.5°	14	12	12	12	10	10	8	8	6	6	6
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	2	2	2	2	2	2	2	0	0	0	0
85°	4	4	4	4	4	2	2	2	2	0	0
82.5°	4	4	4	4	4	4	2	2	2	0	0
80°	4	4	4	4	4	4	2	2	2	2	0
77.5°	4	4	4	4	4	4	2	2	2	2	0
75°	4	4	4	4	4	4	2	2	2	2	0
72.5°	2	2	4	4	4	4	2	2	2	2	2
70°	2	2	2	2	4	4	2	2	2	2	2
67.5°	2	2	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	4	2	2	2	2	2	2	2	2	2	2
55°	4	4	4	2	2	2	2	2	2	2	2
52.5°	6	4	4	4	2	2	2	2	2	2	2
50°	8	6	6	4	4	4	2	2	2	2	2
47.5°	10	8	6	6	4	4	2	2	2	2	2
45°	18	10	8	6	6	4	4	2	2	2	2
42.5°	26	16	10	8	6	4	4	2	2	2	2
40°	36	24	14	10	6	6	4	4	2	2	2
37.5°	48	32	20	12	8	6	6	4	2	2	2
35°	64	42	26	16	10	8	6	4	4	2	2
32.5°	84	54	34	20	12	8	6	4	4	2	2
30°	102	66	44	26	16	10	6	6	4	2	2
27.5°	122	84	52	32	20	12	8	6	4	2	2
25°	140	98	64	38	24	14	8	6	4	4	2
22.5°	158	112	74	46	28	16	10	6	4	4	2
20°	178	128	86	54	34	20	10	6	6	4	2
17.5°	196	144	98	62	38	22	12	8	6	4	2
15°	214	158	110	70	42	26	14	8	6	4	2
12.5°	230	172	120	76	48	28	16	8	6	4	2
10°	246	184	128	84	52	30	18	10	6	4	2
7.5°	262	196	136	90	56	34	18	10	6	4	2
5°	270	204	142	96	60	36	22	10	6	4	2
2.5°	278	214	148	102	64	36	22	12	6	4	2
0°	282	220	152	106	66	38	24	12	6	4	2
-2.5°	292	226	158	110	70	42	26	14	6	4	2
-5°	298	230	164	112	74	46	26	14	8	4	2
-7.5°	302	232	166	114	76	48	26	16	8	4	2
-10°	302	232	168	116	78	50	28	16	8	4	2
-12.5°	300	230	168	116	80	50	28	16	8	4	2
-15°	296	228	166	116	80	50	28	18	8	4	2
-17.5°	290	222	164	114	78	50	30	18	8	6	2
-20°	282	216	160	112	76	50	30	18	8	6	4



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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
-22.5°	272	208	154	108	74	48	30	18	10	6	4
-25°	260	200	148	102	72	46	30	18	10	6	4
-27.5°	246	190	140	98	68	46	30	18	10	6	4
-30°	230	180	132	94	66	44	28	16	10	6	2
-32.5°	218	170	124	88	64	42	28	16	10	6	4
-35°	204	160	118	84	60	40	26	16	10	6	4
-37.5°	190	148	112	82	58	38	26	16	10	6	4
-40°	178	138	104	76	54	36	24	16	10	6	4
-42.5°	164	128	98	72	50	34	22	16	10	6	4
-45°	150	118	90	66	46	32	22	14	10	6	4
-47.5°	134	108	82	60	44	30	20	14	10	6	4
-50°	122	96	74	54	40	30	20	14	10	6	4
-52.5°	108	86	66	50	38	28	20	14	10	6	4
-55°	96	76	60	46	36	26	20	14	10	6	4
-57.5°	86	68	54	44	34	26	18	12	8	6	4
-60°	76	62	50	42	32	24	18	12	8	6	4
-62.5°	68	56	46	38	30	22	16	12	8	6	4
-65°	60	52	42	36	28	22	16	10	8	4	4
-67.5°	54	46	38	32	26	20	16	10	6	4	4
-70°	48	40	34	30	24	18	14	10	6	4	4
-72.5°	42	36	32	26	22	16	12	8	6	4	4
-75°	38	32	28	24	20	14	10	8	4	4	2
-77.5°	32	26	22	20	16	12	10	6	4	4	2
-80°	24	20	18	16	14	10	8	6	4	2	2
-82.5°	18	16	14	12	10	8	6	4	4	2	2
-85°	12	10	8	8	6	6	4	2	2	2	2
-87.5°	6	6	4	4	4	2	2	2	2	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0	0	0	0
87.5°	0	0	0	0
85°	0	0	0	0
82.5°	0	0	0	0
80°	0	0	0	0
77.5°	0	0	0	0
75°	0	0	0	0
72.5°	0	0	0	0
70°	0	0	0	0
67.5°	0	0	0	0
65°	0	0	0	0
62.5°	0	0	0	0
60°	2	0	0	0
57.5°	2	0	0	0
55°	2	0	0	0
52.5°	2	0	0	0
50°	2	0	0	0
47.5°	2	0	0	0
45°	2	0	0	0
42.5°	2	0	0	0
40°	2	2	0	0
37.5°	2	2	0	0
35°	2	2	0	0
32.5°	2	2	0	0
30°	2	2	0	0
27.5°	2	2	0	0
25°	2	2	0	0
22.5°	2	2	0	0
20°	2	2	0	0
17.5°	2	2	0	0
15°	2	2	0	0
12.5°	2	2	0	0
10°	2	2	0	0
7.5°	2	2	0	0
5°	2	2	0	0
2.5°	2	2	0	0
0°	2	2	0	0
-2.5°	2	2	0	0
-5°	2	2	0	0
-7.5°	2	2	0	0
-10°	2	2	0	0
-12.5°	2	2	0	0
-15°	2	2	0	0
-17.5°	2	2	0	0
-20°	2	2	0	0



REPORT NUMBER: P639990  
CATALOG NUMBER: IFLD-M-SA4A-AMB-U-77-VI

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
-22.5°	2	2	0	0
-25°	2	2	0	0
-27.5°	2	2	0	0
-30°	2	2	0	0
-32.5°	2	2	0	0
-35°	2	2	0	0
-37.5°	2	2	0	0
-40°	2	2	0	0
-42.5°	2	2	0	0
-45°	2	2	0	0
-47.5°	2	2	0	0
-50°	2	2	0	0
-52.5°	2	2	0	0
-55°	2	2	0	0
-57.5°	2	2	0	0
-60°	2	2	0	0
-62.5°	2	2	0	0
-65°	2	2	0	0
-67.5°	2	2	0	0
-70°	2	2	0	0
-72.5°	2	2	0	0
-75°	2	0	0	0
-77.5°	2	0	0	0
-80°	2	0	0	0
-82.5°	0	0	0	0
-85°	0	0	0	0
-87.5°	0	0	0	0
-90°	0	0	0	0

(END OF REPORT)