

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: G1-1811-019-1

Luminaire Tested: **FSL503TI**

Test Date: 11/20/18

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: G1-1811-019-1
Test Lab: INNOVATION CENTER(G1)
Test Date: 11/20/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: FSL503TI
Description: 5000 LM LARGE SINGLE HEAD FLOOD LIGHT - 4000K
Light Source: -
Ballast/Driver: -

Luminaire Equipment:	Sample No.	Condition	Description
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	REFLECTOR
	AS-5443-4	Good	REFLECTOR

Summary

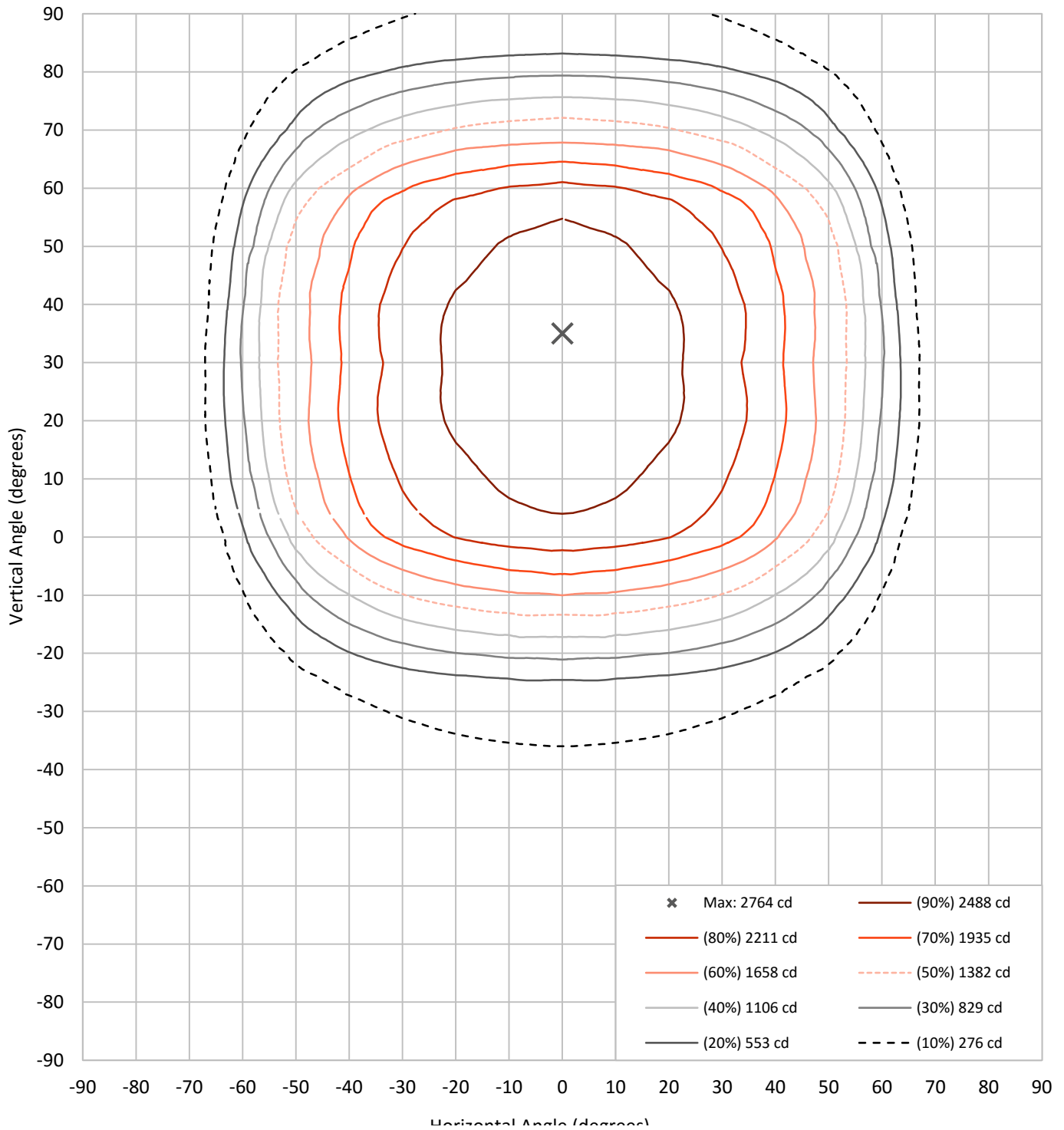
Lumens per Lamp:	N/A	NEMA Type:	7H x 3V
Luminaire Lumens:	5857.6 lumens	Max Intensity:	2764 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 35°V
Efficacy:	112.6 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.65' x L: 0.38' x H: 0.29')		
Beam Angle (50%):	106.6°H x 85.5°V	Field Angle (10%):	133.5°H x 36°V
Beam Lumens:	4578.8 lumens	Field Lumens:	5709.1 lumens
Beam Efficiency:	78.2%	Field Efficiency:	97.5%

Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): 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): 24.8
Test Distance: 28.75 FT



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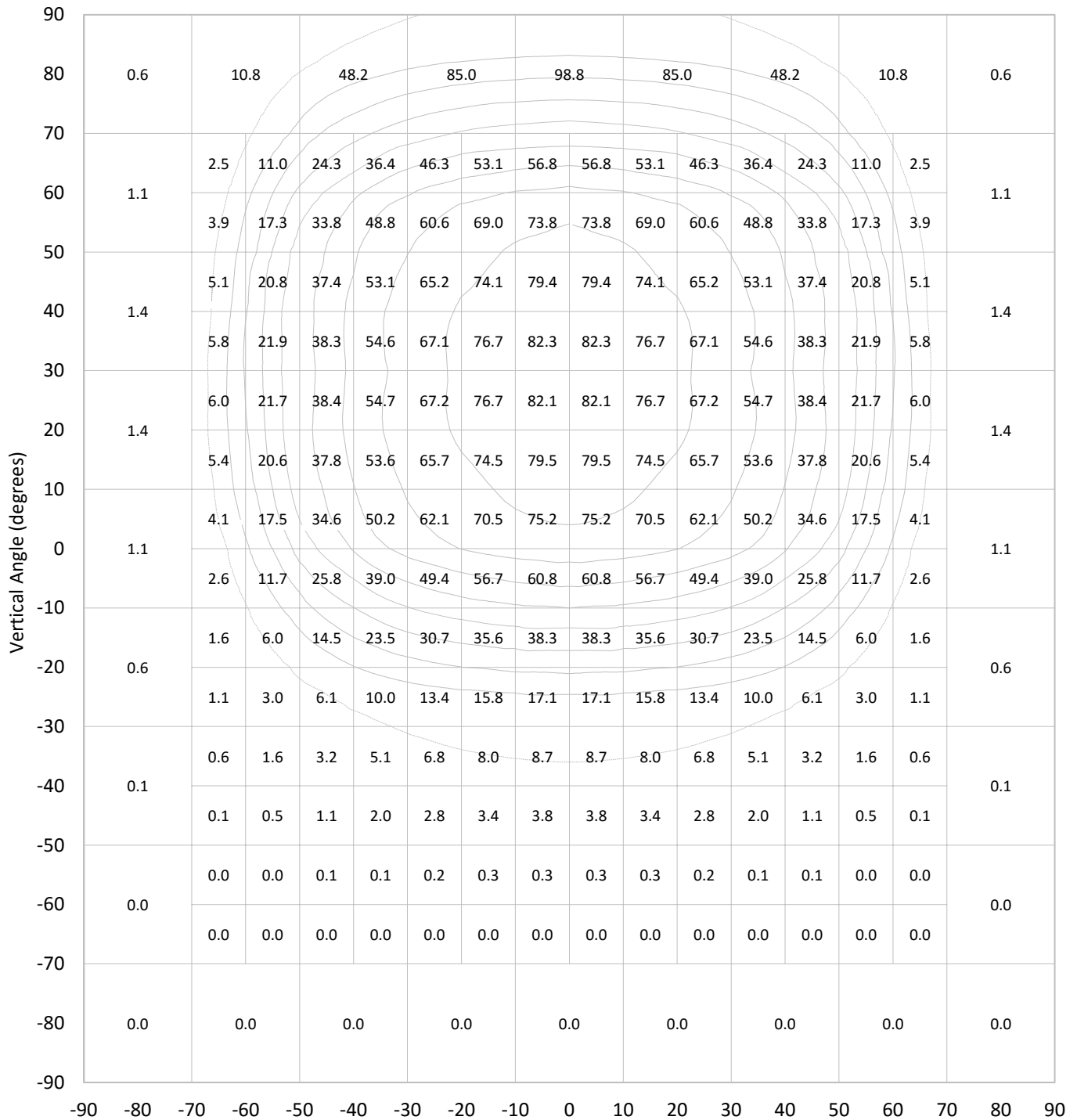
Iso-Candela Plot





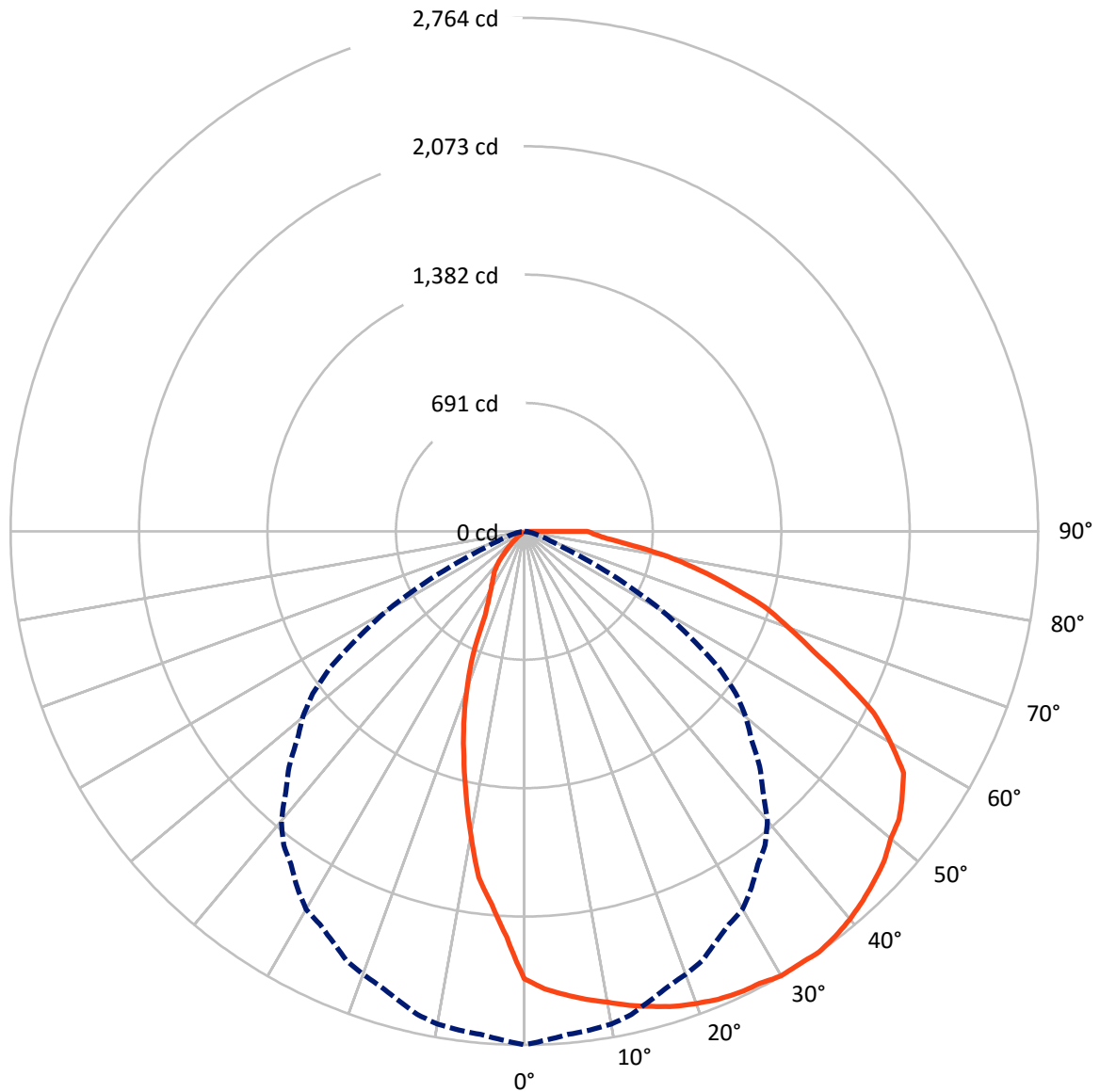
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Lumen Table



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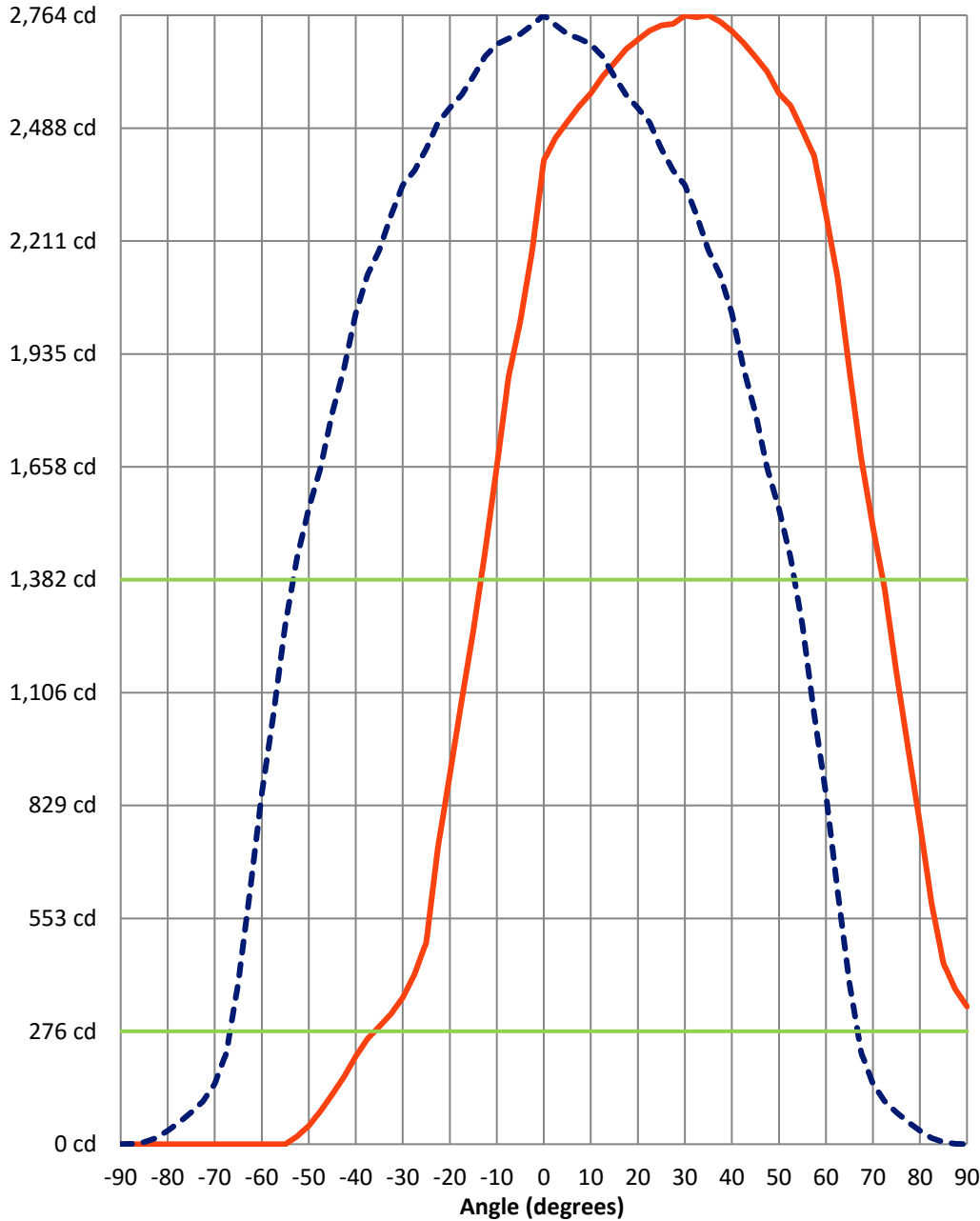
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 35-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 106.6°
 V Angle: 85.5°
 Lumens: 4578.8
 Efficiency: 78.2%

Field:
 H Angle: 133.5°
 V Angle: 36°
 Lumens: 5709.1
 Efficiency: 97.5%

Spill:
 Lumens: 148.5
 Efficiency: 2.5%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 35-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	1	1	2	3	9	14	23	32	44	57
87.5°	0	1	1	3	5	11	18	29	40	54	68
85°	0	1	1	3	6	14	23	35	48	63	78
82.5°	0	1	1	4	8	17	27	40	55	72	88
80°	0	1	1	4	9	19	31	46	62	80	99
77.5°	0	1	1	5	10	22	35	52	69	89	109
75°	0	1	1	5	12	25	40	57	76	97	119
72.5°	0	1	2	6	14	28	44	62	83	105	129
70°	0	1	2	6	16	30	48	68	89	112	141
67.5°	0	1	2	7	18	33	52	72	95	120	153
65°	0	1	2	8	20	36	56	77	101	128	165
62.5°	0	1	2	9	21	38	59	81	106	135	179
60°	0	1	2	10	23	41	63	84	110	144	191
57.5°	0	1	2	11	24	43	65	87	116	153	218
55°	0	1	3	11	26	46	67	90	121	163	247
52.5°	0	1	3	12	28	48	70	93	125	181	271
50°	0	1	3	12	29	49	71	96	129	193	298
47.5°	0	1	4	12	30	51	73	99	134	201	320
45°	0	1	4	13	31	52	74	101	139	208	331
42.5°	0	1	4	13	32	53	76	103	143	205	348
40°	0	1	4	14	32	54	76	105	145	196	365
37.5°	0	1	5	15	33	54	77	106	147	205	380
35°	0	1	5	15	33	54	78	105	148	225	395
32.5°	0	0	5	16	33	55	78	105	148	234	409
30°	0	0	5	16	33	55	78	105	147	232	420
27.5°	0	0	5	16	33	54	78	106	146	218	427
25°	0	0	5	16	33	54	77	105	145	215	430
22.5°	0	0	4	16	32	53	76	103	144	228	426
20°	0	0	4	15	32	52	74	101	141	231	414
17.5°	0	0	4	15	31	51	73	97	137	223	399
15°	0	0	4	14	30	50	71	94	132	206	380
12.5°	0	0	4	14	29	49	70	92	128	181	358
10°	0	0	3	13	28	47	68	90	124	172	333
7.5°	0	0	3	12	27	46	66	88	119	165	306
5°	0	0	3	11	26	44	64	86	115	158	271
2.5°	0	0	2	10	24	41	61	82	108	148	232
0°	0	0	2	9	22	39	58	79	101	137	188
-2.5°	0	0	2	8	21	37	55	76	98	131	177
-5°	0	0	2	8	19	35	53	73	94	124	164
-7.5°	0	0	2	7	18	32	49	68	89	115	152
-10°	0	0	2	7	16	30	46	64	84	108	139
-12.5°	0	0	1	6	14	27	42	60	79	100	128
-15°	0	0	1	5	13	25	38	55	74	93	118
-17.5°	0	0	1	5	11	22	35	50	68	86	108
-20°	0	0	1	4	10	19	31	45	61	79	98



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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	4	8	16	27	40	55	71	89
-25°	0	0	1	3	7	14	23	35	48	63	79
-27.5°	0	0	1	2	5	11	20	29	41	55	69
-30°	0	0	1	2	4	9	16	24	35	47	60
-32.5°	0	0	1	2	3	7	12	19	29	39	50
-35°	0	0	1	1	2	5	9	15	23	31	40
-37.5°	0	0	0	1	2	4	7	11	17	24	31
-40°	0	0	0	0	1	3	4	8	11	17	23
-42.5°	0	0	0	0	1	2	3	5	7	11	16
-45°	0	0	0	0	0	1	2	3	4	6	9
-47.5°	0	0	0	0	0	1	1	2	1	2	5
-50°	0	0	0	0	0	0	1	1	0	1	2
-52.5°	0	0	0	0	0	0	0	0	0	1	0
-55°	0	0	0	0	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-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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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	71	85	102	118	135	151	168	184	200	215	229
87.5°	83	99	117	136	154	173	192	211	228	245	260
85°	95	114	133	154	176	198	220	242	263	284	303
82.5°	108	127	150	174	200	226	253	285	316	346	375
80°	119	141	169	203	241	284	324	365	402	444	491
77.5°	132	158	194	238	289	356	421	487	551	616	666
75°	146	175	225	291	366	452	536	615	684	739	789
72.5°	162	206	268	350	442	541	635	726	809	870	929
70°	181	235	318	418	520	635	767	879	970	1025	1081
67.5°	201	282	380	495	639	787	934	1016	1091	1156	1231
65°	232	326	464	616	785	915	1032	1117	1205	1289	1369
62.5°	257	399	564	728	888	1026	1157	1270	1356	1436	1531
60°	310	477	650	823	995	1170	1315	1407	1491	1601	1692
57.5°	356	543	722	906	1097	1306	1403	1492	1599	1712	1823
55°	392	596	780	967	1181	1370	1478	1570	1681	1788	1894
52.5°	439	639	820	1034	1272	1430	1545	1637	1746	1848	1953
50°	477	683	863	1131	1342	1465	1577	1666	1790	1893	2013
47.5°	507	742	949	1203	1354	1489	1578	1693	1809	1921	2041
45°	519	771	1006	1216	1377	1532	1620	1739	1845	1951	2061
42.5°	541	779	1001	1235	1420	1557	1648	1763	1879	1997	2098
40°	571	810	1008	1258	1451	1551	1648	1769	1888	2013	2133
37.5°	600	839	1049	1278	1443	1548	1646	1779	1899	2031	2125
35°	619	857	1053	1271	1435	1556	1656	1790	1899	2034	2128
32.5°	629	873	1040	1268	1439	1558	1640	1769	1884	2019	2115
30°	637	856	1037	1287	1437	1552	1630	1761	1882	2007	2102
27.5°	643	846	1042	1268	1428	1558	1636	1768	1893	2016	2115
25°	643	834	1031	1255	1429	1561	1640	1785	1899	2027	2125
22.5°	632	823	1011	1256	1430	1557	1654	1786	1915	2040	2133
20°	616	802	991	1245	1426	1567	1659	1785	1909	2027	2128
17.5°	600	775	973	1222	1410	1563	1651	1772	1889	2010	2109
15°	581	756	954	1199	1390	1538	1639	1743	1871	1985	2091
12.5°	559	736	925	1158	1362	1518	1620	1718	1838	1955	2060
10°	534	716	877	1111	1324	1485	1593	1682	1802	1923	2028
7.5°	491	680	820	1061	1285	1447	1565	1657	1772	1886	1995
5°	441	625	780	994	1211	1391	1527	1628	1739	1843	1953
2.5°	387	568	740	916	1112	1316	1438	1555	1656	1774	1890
0°	325	503	692	825	999	1229	1340	1476	1554	1684	1800
-2.5°	289	443	610	742	908	1091	1230	1348	1430	1539	1648
-5°	249	376	519	650	805	942	1105	1210	1297	1385	1489
-7.5°	211	310	428	558	700	823	970	1076	1168	1236	1330
-10°	177	259	363	473	590	715	834	934	1031	1099	1175
-12.5°	163	224	304	389	481	600	710	801	893	962	1024
-15°	148	192	247	313	397	498	592	663	754	827	882
-17.5°	134	164	207	264	326	401	479	540	616	684	740
-20°	120	146	179	218	258	322	380	423	482	543	591



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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°	108	130	157	182	220	262	292	327	374	408	449
-25°	97	117	138	162	190	214	236	259	288	326	346
-27.5°	85	103	123	143	163	184	206	226	249	268	287
-30°	74	90	107	125	143	161	179	197	217	233	249
-32.5°	63	77	92	108	124	141	157	173	189	206	218
-35°	51	64	78	91	106	121	135	151	164	179	193
-37.5°	40	50	61	73	86	98	113	126	139	153	165
-40°	30	37	46	56	66	77	88	99	111	121	133
-42.5°	20	26	33	39	48	56	64	74	82	91	100
-45°	12	16	21	26	32	38	44	49	57	63	70
-47.5°	6	8	11	14	18	22	26	31	35	40	44
-50°	2	4	4	7	7	10	12	15	18	21	23
-52.5°	1	1	2	2	2	3	3	5	6	7	8
-55°	0	0	0	0	0	0	0	0	0	1	1
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-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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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	242	254	266	277	287	295	304	311	317	322	326
87.5°	276	290	304	315	327	337	345	352	361	368	375
85°	322	338	355	367	379	391	404	411	418	425	434
82.5°	405	431	455	475	493	515	522	533	545	553	560
80°	535	570	602	631	659	689	703	721	738	750	760
77.5°	703	737	772	805	835	865	882	904	926	935	940
75°	841	892	939	975	1007	1034	1056	1082	1107	1119	1127
72.5°	989	1043	1094	1136	1172	1201	1230	1259	1283	1302	1317
70°	1148	1210	1253	1291	1332	1370	1408	1438	1458	1473	1485
67.5°	1309	1384	1425	1463	1508	1547	1589	1619	1628	1639	1652
65°	1462	1547	1594	1643	1683	1720	1768	1790	1798	1814	1840
62.5°	1620	1693	1752	1814	1856	1888	1934	1954	1980	2013	2054
60°	1784	1847	1904	1975	2020	2046	2089	2129	2170	2203	2229
57.5°	1921	1984	2053	2102	2150	2207	2254	2280	2304	2333	2357
55°	1997	2058	2131	2177	2213	2265	2315	2340	2365	2397	2421
52.5°	2033	2097	2173	2222	2251	2306	2363	2381	2404	2446	2473
50°	2073	2131	2205	2256	2294	2344	2388	2411	2444	2492	2517
47.5°	2110	2178	2240	2285	2334	2386	2425	2451	2485	2530	2559
45°	2130	2208	2278	2315	2362	2424	2458	2482	2519	2567	2600
42.5°	2158	2233	2305	2344	2388	2450	2488	2510	2552	2599	2633
40°	2186	2263	2322	2366	2415	2470	2512	2540	2578	2629	2660
37.5°	2194	2274	2338	2377	2431	2490	2527	2558	2603	2655	2681
35°	2189	2274	2348	2384	2437	2501	2537	2569	2614	2663	2693
32.5°	2183	2275	2330	2378	2437	2497	2537	2569	2614	2668	2698
30°	2160	2256	2321	2366	2429	2493	2532	2567	2615	2673	2696
27.5°	2178	2261	2328	2376	2432	2491	2532	2563	2611	2664	2691
25°	2193	2282	2340	2383	2441	2501	2537	2567	2611	2661	2687
22.5°	2201	2282	2342	2387	2441	2495	2534	2562	2603	2651	2674
20°	2193	2278	2331	2375	2426	2483	2518	2547	2583	2628	2653
17.5°	2175	2255	2315	2364	2408	2465	2501	2528	2561	2606	2632
15°	2148	2229	2291	2337	2383	2439	2474	2500	2533	2575	2601
12.5°	2130	2200	2267	2311	2354	2411	2448	2475	2504	2546	2568
10°	2103	2168	2236	2281	2327	2382	2417	2447	2474	2509	2534
7.5°	2073	2141	2205	2253	2294	2344	2382	2414	2442	2476	2500
5°	2039	2103	2169	2216	2260	2309	2349	2379	2407	2438	2462
2.5°	1985	2047	2124	2172	2213	2263	2303	2332	2360	2394	2418
0°	1890	1955	2029	2086	2129	2177	2218	2257	2289	2326	2351
-2.5°	1737	1803	1867	1913	1950	1993	2036	2071	2096	2118	2142
-5°	1577	1641	1700	1745	1794	1840	1870	1901	1928	1952	1979
-7.5°	1419	1481	1534	1588	1635	1664	1703	1737	1762	1787	1816
-10°	1257	1321	1370	1418	1457	1494	1531	1555	1573	1590	1614
-12.5°	1096	1161	1207	1252	1281	1318	1341	1366	1398	1412	1427
-15°	936	997	1047	1083	1114	1144	1174	1188	1213	1244	1236
-17.5°	791	842	879	913	950	973	997	1023	1033	1055	1059
-20°	639	686	712	748	778	802	826	840	849	873	891



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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°	483	520	550	576	597	620	640	651	659	682	692
-25°	359	388	414	430	441	456	470	470	492	489	494
-27.5°	305	322	338	351	363	373	381	389	397	403	407
-30°	263	280	293	305	316	324	332	341	347	350	356
-32.5°	233	243	257	267	276	286	294	300	305	307	314
-35°	206	217	230	238	247	255	262	268	273	278	281
-37.5°	178	188	199	209	217	226	231	237	244	246	250
-40°	143	153	162	171	179	187	192	198	202	205	209
-42.5°	108	116	123	131	139	144	149	153	156	159	162
-45°	76	83	88	94	99	103	108	112	113	116	117
-47.5°	48	51	57	60	63	67	70	72	75	77	78
-50°	26	27	31	33	35	37	38	40	42	44	45
-52.5°	8	10	11	12	13	14	14	16	17	18	18
-55°	1	2	0	2	2	1	1	3	3	3	2
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-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



REPORT NUMBER: G1-1811-019-1
 CATALOG NUMBER: FSL503TI

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	330	334	336	337	336	334	330	326	322	317	311
87.5°	376	378	379	380	379	378	376	375	368	361	352
85°	436	439	441	443	441	439	436	434	425	418	411
82.5°	568	571	579	588	579	571	568	560	553	545	533
80°	776	779	781	784	781	779	776	760	750	738	721
77.5°	948	959	963	968	963	959	948	940	935	926	904
75°	1136	1148	1151	1155	1151	1148	1136	1127	1119	1107	1082
72.5°	1328	1342	1350	1359	1350	1342	1328	1317	1302	1283	1259
70°	1490	1497	1503	1511	1503	1497	1490	1485	1473	1458	1438
67.5°	1661	1673	1676	1680	1676	1673	1661	1652	1639	1628	1619
65°	1857	1865	1883	1895	1883	1865	1857	1840	1814	1798	1790
62.5°	2076	2082	2103	2120	2103	2082	2076	2054	2013	1980	1954
60°	2241	2244	2261	2277	2261	2244	2241	2229	2203	2170	2129
57.5°	2376	2387	2405	2419	2405	2387	2376	2357	2333	2304	2280
55°	2440	2451	2467	2482	2467	2451	2440	2421	2397	2365	2340
52.5°	2492	2502	2521	2542	2521	2502	2492	2473	2446	2404	2381
50°	2527	2537	2553	2573	2553	2537	2527	2517	2492	2444	2411
47.5°	2569	2584	2604	2626	2604	2584	2569	2559	2530	2485	2451
45°	2603	2617	2638	2662	2638	2617	2603	2600	2567	2519	2482
42.5°	2638	2652	2673	2696	2673	2652	2638	2633	2599	2552	2510
40°	2668	2681	2702	2725	2702	2681	2668	2660	2629	2578	2540
37.5°	2692	2706	2730	2748	2730	2706	2692	2681	2655	2603	2558
35°	2707	2718	2740	2764	2740	2718	2707	2693	2663	2614	2569
32.5°	2708	2714	2743	2759	2743	2714	2708	2698	2668	2614	2569
30°	2710	2723	2753	2763	2753	2723	2710	2696	2673	2615	2567
27.5°	2701	2710	2732	2743	2732	2710	2701	2691	2664	2611	2563
25°	2694	2708	2731	2739	2731	2708	2694	2687	2661	2611	2567
22.5°	2683	2697	2718	2726	2718	2697	2683	2674	2651	2603	2562
20°	2664	2676	2694	2704	2694	2676	2664	2653	2628	2583	2547
17.5°	2641	2654	2669	2681	2669	2654	2641	2632	2606	2561	2528
15°	2612	2624	2633	2647	2633	2624	2612	2601	2575	2533	2500
12.5°	2583	2592	2606	2614	2606	2592	2583	2568	2546	2504	2475
10°	2545	2560	2573	2573	2560	2545	2534	2509	2474	2447	2447
7.5°	2515	2528	2538	2541	2538	2528	2515	2500	2476	2442	2414
5°	2478	2493	2502	2503	2502	2493	2478	2462	2438	2407	2379
2.5°	2432	2447	2460	2464	2460	2447	2432	2418	2394	2360	2332
0°	2373	2389	2403	2408	2403	2389	2373	2351	2326	2289	2257
-2.5°	2156	2170	2198	2186	2198	2170	2156	2142	2118	2096	2071
-5°	1992	2004	2038	2015	2038	2004	1992	1979	1952	1928	1901
-7.5°	1827	1821	1852	1878	1852	1821	1827	1816	1787	1762	1737
-10°	1636	1631	1641	1659	1641	1631	1636	1614	1590	1573	1555
-12.5°	1453	1452	1444	1450	1444	1452	1453	1427	1412	1398	1366
-15°	1272	1274	1264	1257	1264	1274	1272	1236	1244	1213	1188
-17.5°	1096	1076	1082	1084	1082	1076	1096	1059	1055	1033	1023
-20°	896	887	899	904	899	887	896	891	873	849	840



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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°	694	704	717	728	717	704	694	692	682	659	651
-25°	521	520	503	495	503	520	521	494	489	492	470
-27.5°	411	413	415	416	415	413	411	407	403	397	389
-30°	359	361	362	359	362	361	359	356	350	347	341
-32.5°	318	319	319	319	319	319	318	314	307	305	300
-35°	284	285	288	288	288	285	284	281	278	273	268
-37.5°	253	256	259	258	259	256	253	250	246	244	237
-40°	213	214	216	215	216	214	213	209	205	202	198
-42.5°	165	166	167	165	167	166	165	162	159	156	153
-45°	119	120	122	122	122	120	119	117	116	113	112
-47.5°	79	80	81	81	81	80	79	78	77	75	72
-50°	45	46	46	45	46	46	45	45	44	42	40
-52.5°	19	19	19	19	19	19	19	18	18	17	16
-55°	1	1	1	0	1	1	1	2	3	3	3
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-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



REPORT NUMBER: G1-1811-019-1
 CATALOG NUMBER: FSL503TI

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	304	295	287	277	266	254	242	229	215	200	184
87.5°	345	337	327	315	304	290	276	260	245	228	211
85°	404	391	379	367	355	338	322	303	284	263	242
82.5°	522	515	493	475	455	431	405	375	346	316	285
80°	703	689	659	631	602	570	535	491	444	402	365
77.5°	882	865	835	805	772	737	703	666	616	551	487
75°	1056	1034	1007	975	939	892	841	789	739	684	615
72.5°	1230	1201	1172	1136	1094	1043	989	929	870	809	726
70°	1408	1370	1332	1291	1253	1210	1148	1081	1025	970	879
67.5°	1589	1547	1508	1463	1425	1384	1309	1231	1156	1091	1016
65°	1768	1720	1683	1643	1594	1547	1462	1369	1289	1205	1117
62.5°	1934	1888	1856	1814	1752	1693	1620	1531	1436	1356	1270
60°	2089	2046	2020	1975	1904	1847	1784	1692	1601	1491	1407
57.5°	2254	2207	2150	2102	2053	1984	1921	1823	1712	1599	1492
55°	2315	2265	2213	2177	2131	2058	1997	1894	1788	1681	1570
52.5°	2363	2306	2251	2222	2173	2097	2033	1953	1848	1746	1637
50°	2388	2344	2294	2256	2205	2131	2073	2013	1893	1790	1666
47.5°	2425	2386	2334	2285	2240	2178	2110	2041	1921	1809	1693
45°	2458	2424	2362	2315	2278	2208	2130	2061	1951	1845	1739
42.5°	2488	2450	2388	2344	2305	2233	2158	2098	1997	1879	1763
40°	2512	2470	2415	2366	2322	2263	2186	2133	2013	1888	1769
37.5°	2527	2490	2431	2377	2338	2274	2194	2125	2031	1899	1779
35°	2537	2501	2437	2384	2348	2274	2189	2128	2034	1899	1790
32.5°	2537	2497	2437	2378	2330	2275	2183	2115	2019	1884	1769
30°	2532	2493	2429	2366	2321	2256	2160	2102	2007	1882	1761
27.5°	2532	2491	2432	2376	2328	2261	2178	2115	2016	1893	1768
25°	2537	2501	2441	2383	2340	2282	2193	2125	2027	1899	1785
22.5°	2534	2495	2441	2387	2342	2282	2201	2133	2040	1915	1786
20°	2518	2483	2426	2375	2331	2278	2193	2128	2027	1909	1785
17.5°	2501	2465	2408	2364	2315	2255	2175	2109	2010	1889	1772
15°	2474	2439	2383	2337	2291	2229	2148	2091	1985	1871	1743
12.5°	2448	2411	2354	2311	2267	2200	2130	2060	1955	1838	1718
10°	2417	2382	2327	2281	2236	2168	2103	2028	1923	1802	1682
7.5°	2382	2344	2294	2253	2205	2141	2073	1995	1886	1772	1657
5°	2349	2309	2260	2216	2169	2103	2039	1953	1843	1739	1628
2.5°	2303	2263	2213	2172	2124	2047	1985	1890	1774	1656	1555
0°	2218	2177	2129	2086	2029	1955	1890	1800	1684	1554	1476
-2.5°	2036	1993	1950	1913	1867	1803	1737	1648	1539	1430	1348
-5°	1870	1840	1794	1745	1700	1641	1577	1489	1385	1297	1210
-7.5°	1703	1664	1635	1588	1534	1481	1419	1330	1236	1168	1076
-10°	1531	1494	1457	1418	1370	1321	1257	1175	1099	1031	934
-12.5°	1341	1318	1281	1252	1207	1161	1096	1024	962	893	801
-15°	1174	1144	1114	1083	1047	997	936	882	827	754	663
-17.5°	997	973	950	913	879	842	791	740	684	616	540
-20°	826	802	778	748	712	686	639	591	543	482	423



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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°	640	620	597	576	550	520	483	449	408	374	327
-25°	470	456	441	430	414	388	359	346	326	288	259
-27.5°	381	373	363	351	338	322	305	287	268	249	226
-30°	332	324	316	305	293	280	263	249	233	217	197
-32.5°	294	286	276	267	257	243	233	218	206	189	173
-35°	262	255	247	238	230	217	206	193	179	164	151
-37.5°	231	226	217	209	199	188	178	165	153	139	126
-40°	192	187	179	171	162	153	143	133	121	111	99
-42.5°	149	144	139	131	123	116	108	100	91	82	74
-45°	108	103	99	94	88	83	76	70	63	57	49
-47.5°	70	67	63	60	57	51	48	44	40	35	31
-50°	38	37	35	33	31	27	26	23	21	18	15
-52.5°	14	14	13	12	11	10	8	8	7	6	5
-55°	1	1	2	2	0	2	1	1	1	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-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: FSL503TI

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	168	151	135	118	102	85	71	57	44	32	23
87.5°	192	173	154	136	117	99	83	68	54	40	29
85°	220	198	176	154	133	114	95	78	63	48	35
82.5°	253	226	200	174	150	127	108	88	72	55	40
80°	324	284	241	203	169	141	119	99	80	62	46
77.5°	421	356	289	238	194	158	132	109	89	69	52
75°	536	452	366	291	225	175	146	119	97	76	57
72.5°	635	541	442	350	268	206	162	129	105	83	62
70°	767	635	520	418	318	235	181	141	112	89	68
67.5°	934	787	639	495	380	282	201	153	120	95	72
65°	1032	915	785	616	464	326	232	165	128	101	77
62.5°	1157	1026	888	728	564	399	257	179	135	106	81
60°	1315	1170	995	823	650	477	310	191	144	110	84
57.5°	1403	1306	1097	906	722	543	356	218	153	116	87
55°	1478	1370	1181	967	780	596	392	247	163	121	90
52.5°	1545	1430	1272	1034	820	639	439	271	181	125	93
50°	1577	1465	1342	1131	863	683	477	298	193	129	96
47.5°	1578	1489	1354	1203	949	742	507	320	201	134	99
45°	1620	1532	1377	1216	1006	771	519	331	208	139	101
42.5°	1648	1557	1420	1235	1001	779	541	348	205	143	103
40°	1648	1551	1451	1258	1008	810	571	365	196	145	105
37.5°	1646	1548	1443	1278	1049	839	600	380	205	147	106
35°	1656	1556	1435	1271	1053	857	619	395	225	148	105
32.5°	1640	1558	1439	1268	1040	873	629	409	234	148	105
30°	1630	1552	1437	1287	1037	856	637	420	232	147	105
27.5°	1636	1558	1428	1268	1042	846	643	427	218	146	106
25°	1640	1561	1429	1255	1031	834	643	430	215	145	105
22.5°	1654	1557	1430	1256	1011	823	632	426	228	144	103
20°	1659	1567	1426	1245	991	802	616	414	231	141	101
17.5°	1651	1563	1410	1222	973	775	600	399	223	137	97
15°	1639	1538	1390	1199	954	756	581	380	206	132	94
12.5°	1620	1518	1362	1158	925	736	559	358	181	128	92
10°	1593	1485	1324	1111	877	716	534	333	172	124	90
7.5°	1565	1447	1285	1061	820	680	491	306	165	119	88
5°	1527	1391	1211	994	780	625	441	271	158	115	86
2.5°	1438	1316	1112	916	740	568	387	232	148	108	82
0°	1340	1229	999	825	692	503	325	188	137	101	79
-2.5°	1230	1091	908	742	610	443	289	177	131	98	76
-5°	1105	942	805	650	519	376	249	164	124	94	73
-7.5°	970	823	700	558	428	310	211	152	115	89	68
-10°	834	715	590	473	363	259	177	139	108	84	64
-12.5°	710	600	481	389	304	224	163	128	100	79	60
-15°	592	498	397	313	247	192	148	118	93	74	55
-17.5°	479	401	326	264	207	164	134	108	86	68	50
-20°	380	322	258	218	179	146	120	98	79	61	45



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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°	292	262	220	182	157	130	108	89	71	55	40
-25°	236	214	190	162	138	117	97	79	63	48	35
-27.5°	206	184	163	143	123	103	85	69	55	41	29
-30°	179	161	143	125	107	90	74	60	47	35	24
-32.5°	157	141	124	108	92	77	63	50	39	29	19
-35°	135	121	106	91	78	64	51	40	31	23	15
-37.5°	113	98	86	73	61	50	40	31	24	17	11
-40°	88	77	66	56	46	37	30	23	17	11	8
-42.5°	64	56	48	39	33	26	20	16	11	7	5
-45°	44	38	32	26	21	16	12	9	6	4	3
-47.5°	26	22	18	14	11	8	6	5	2	1	2
-50°	12	10	7	7	4	4	2	2	1	0	1
-52.5°	3	3	2	2	2	1	1	0	1	0	0
-55°	0	0	0	0	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-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: FSL503TI

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	14	9	3	2	1	1	0
87.5°	18	11	5	3	1	1	0
85°	23	14	6	3	1	1	0
82.5°	27	17	8	4	1	1	0
80°	31	19	9	4	1	1	0
77.5°	35	22	10	5	1	1	0
75°	40	25	12	5	1	1	0
72.5°	44	28	14	6	2	1	0
70°	48	30	16	6	2	1	0
67.5°	52	33	18	7	2	1	0
65°	56	36	20	8	2	1	0
62.5°	59	38	21	9	2	1	0
60°	63	41	23	10	2	1	0
57.5°	65	43	24	11	2	1	0
55°	67	46	26	11	3	1	0
52.5°	70	48	28	12	3	1	0
50°	71	49	29	12	3	1	0
47.5°	73	51	30	12	4	1	0
45°	74	52	31	13	4	1	0
42.5°	76	53	32	13	4	1	0
40°	76	54	32	14	4	1	0
37.5°	77	54	33	15	5	1	0
35°	78	54	33	15	5	1	0
32.5°	78	55	33	16	5	0	0
30°	78	55	33	16	5	0	0
27.5°	78	54	33	16	5	0	0
25°	77	54	33	16	5	0	0
22.5°	76	53	32	16	4	0	0
20°	74	52	32	15	4	0	0
17.5°	73	51	31	15	4	0	0
15°	71	50	30	14	4	0	0
12.5°	70	49	29	14	4	0	0
10°	68	47	28	13	3	0	0
7.5°	66	46	27	12	3	0	0
5°	64	44	26	11	3	0	0
2.5°	61	41	24	10	2	0	0
0°	58	39	22	9	2	0	0
-2.5°	55	37	21	8	2	0	0
-5°	53	35	19	8	2	0	0
-7.5°	49	32	18	7	2	0	0
-10°	46	30	16	7	2	0	0
-12.5°	42	27	14	6	1	0	0
-15°	38	25	13	5	1	0	0
-17.5°	35	22	11	5	1	0	0
-20°	31	19	10	4	1	0	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	27	16	8	4	1	0	0
-25°	23	14	7	3	1	0	0
-27.5°	20	11	5	2	1	0	0
-30°	16	9	4	2	1	0	0
-32.5°	12	7	3	2	1	0	0
-35°	9	5	2	1	1	0	0
-37.5°	7	4	2	1	0	0	0
-40°	4	3	1	0	0	0	0
-42.5°	3	2	1	0	0	0	0
-45°	2	1	0	0	0	0	0
-47.5°	1	1	0	0	0	0	0
-50°	1	0	0	0	0	0	0
-52.5°	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0
-77.5°	0	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)







Horizontal Angle (degrees)



Horizontal Angle (degrees)

