

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: LUMARK

Report Number: 08514

Luminaire Tested: **MPSF-X-100**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 08514
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPSF-X-100
Description: FALCON FLOODLIGHT
Light Source: 100 WATT PULSE-START CLEAR ED-17 HORIZONTAL BURN
Ballast/Driver: -

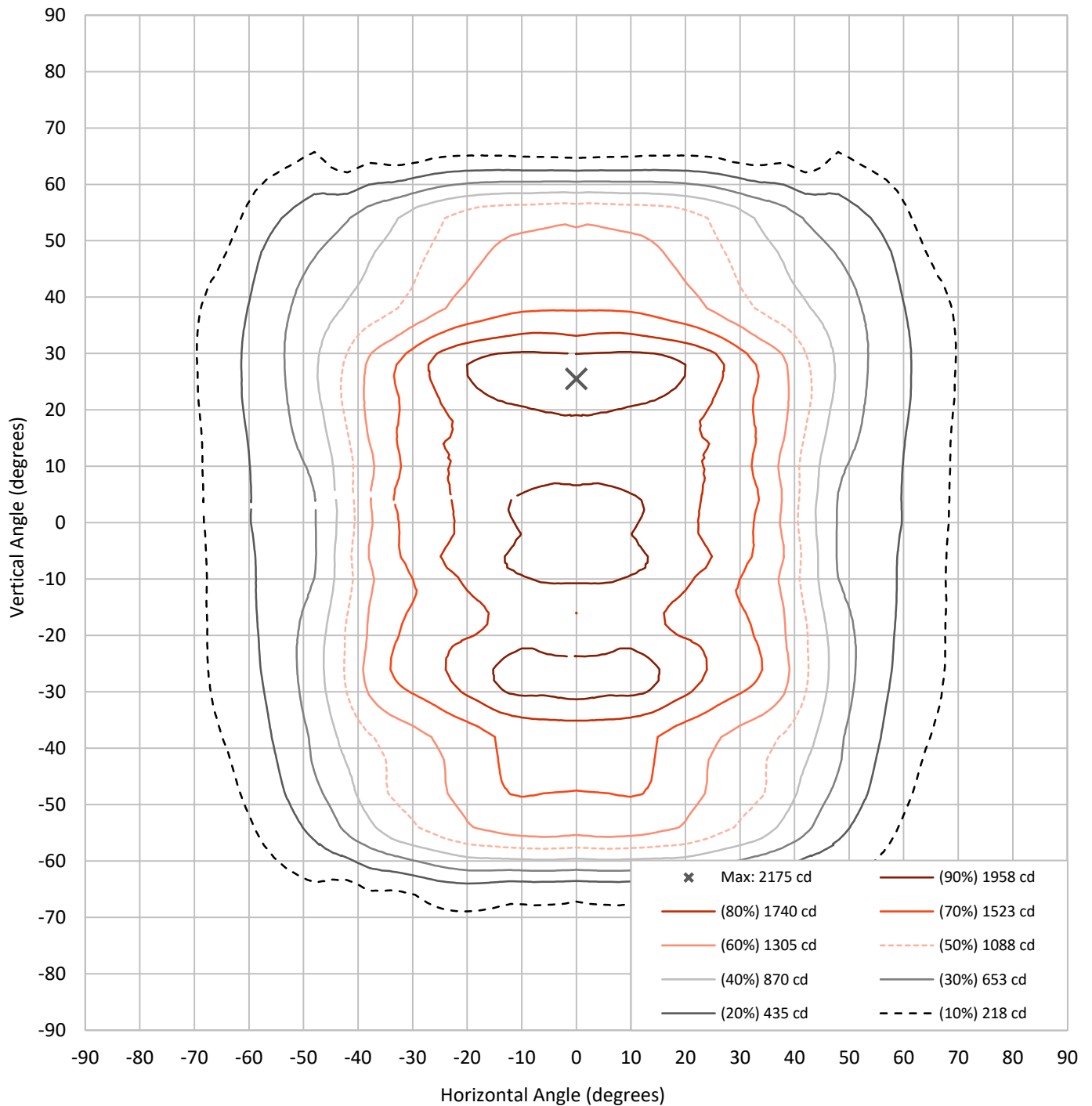
Summary

Lumens per Lamp:	8100 (1 lamp)	NEMA Type:	7H x 7V
Luminaire Lumens:	5019.6 lumens	Max Intensity:	2175 candela
Efficiency:	62.0%	Max Intensity Angle:	0°H x 25.5°V
Efficacy:	50.2 lumens/watt		
Luminous Opening:	Rectangular (W 0.54' x L: 0.79' x H: 0')		
Beam Angle (50%):	86.2°H x 114.2°V	Field Angle (10%):	138.7°H x 131.6°V
Beam Lumens:	3828.5 lumens	Field Lumens:	4893.3 lumens
Beam Efficiency:	76.3%	Field Efficiency:	97.5%
Input Watts (W):	100		
Input Voltage (V):	NR		
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		



REPORT NUMBER: 08514
CATALOG NUMBER: MPSF-X-100

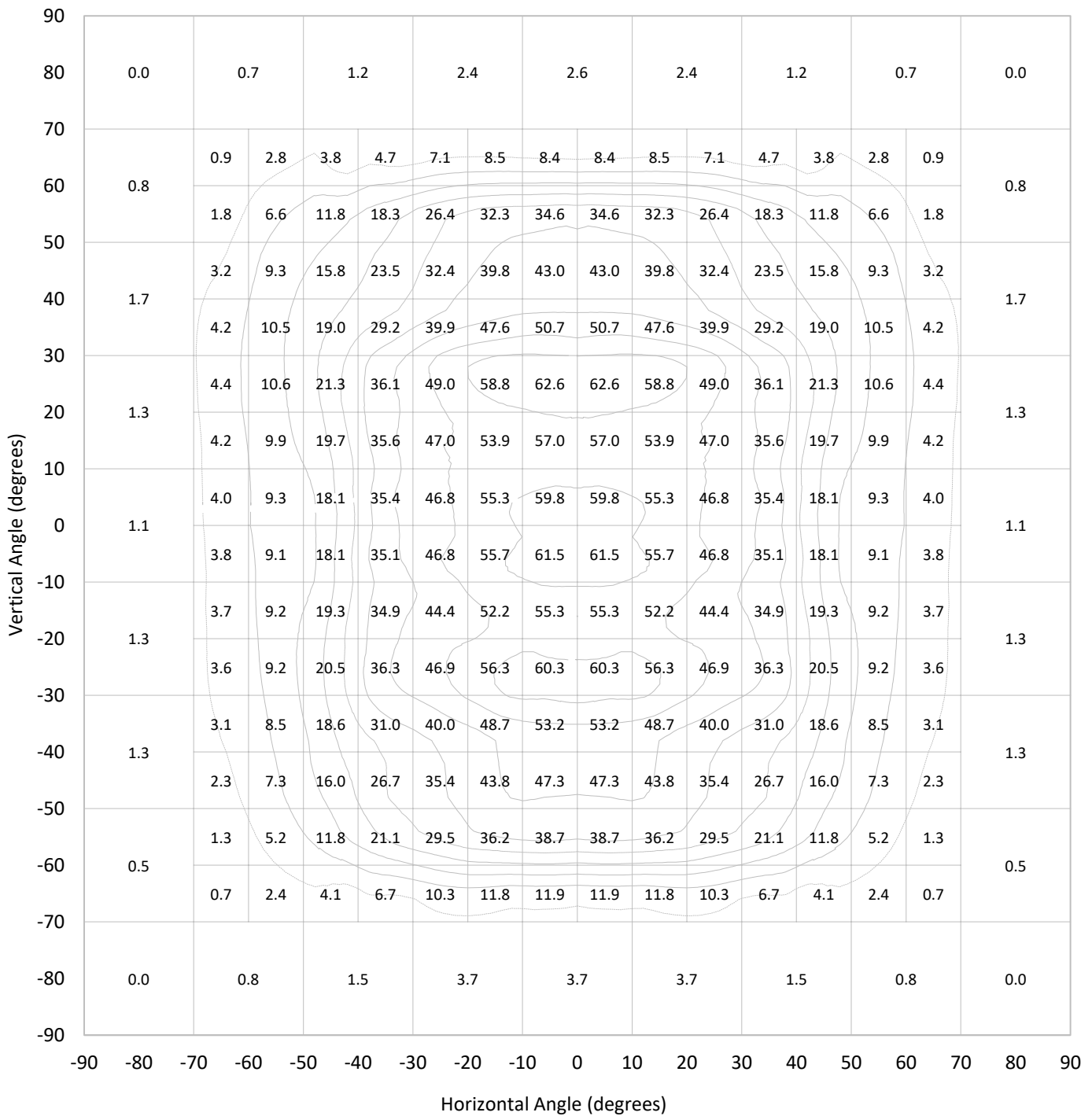
Iso-Candela Plot





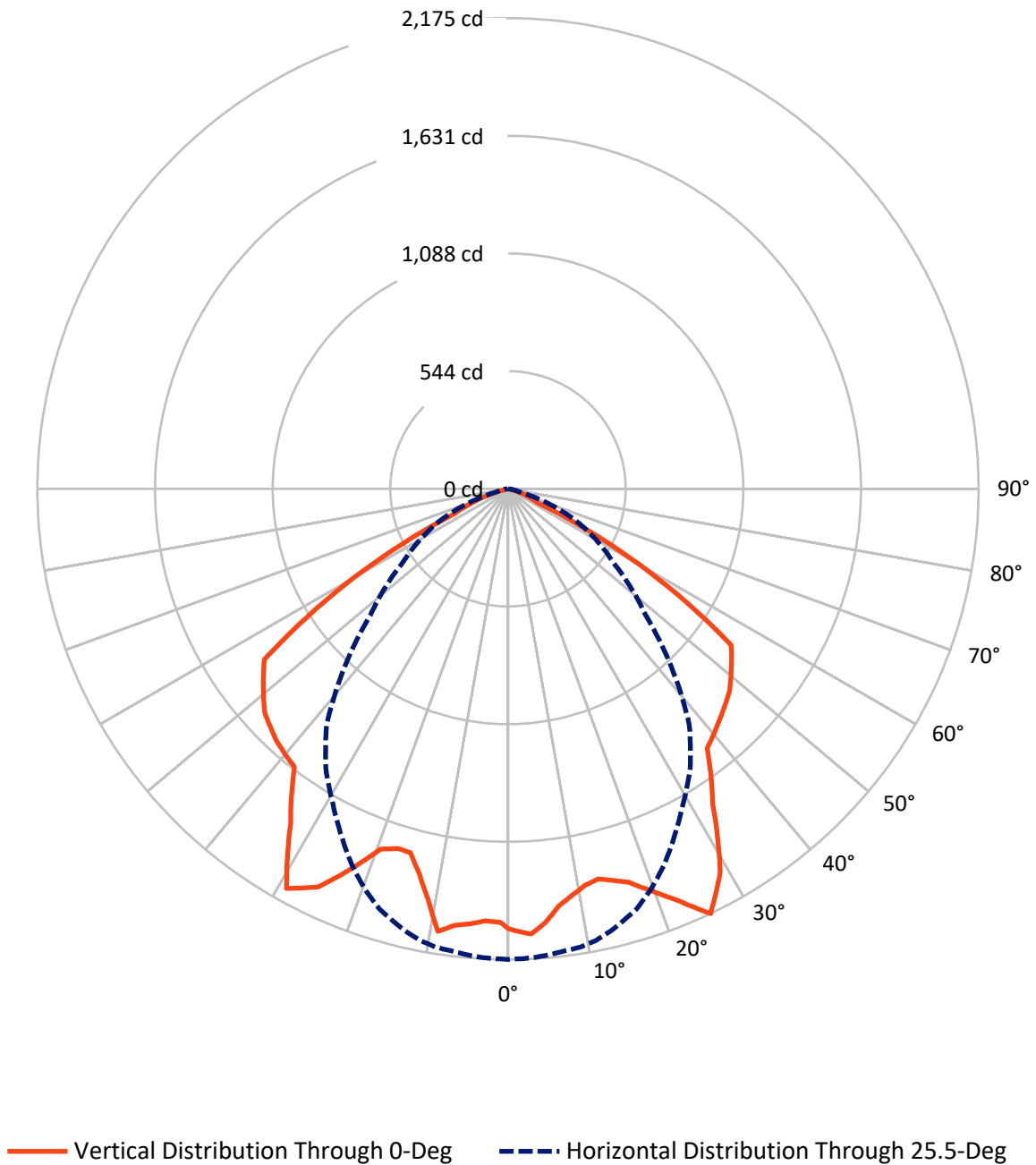
REPORT NUMBER: 08514
 CATALOG NUMBER: MPSF-X-100

Lumen Table



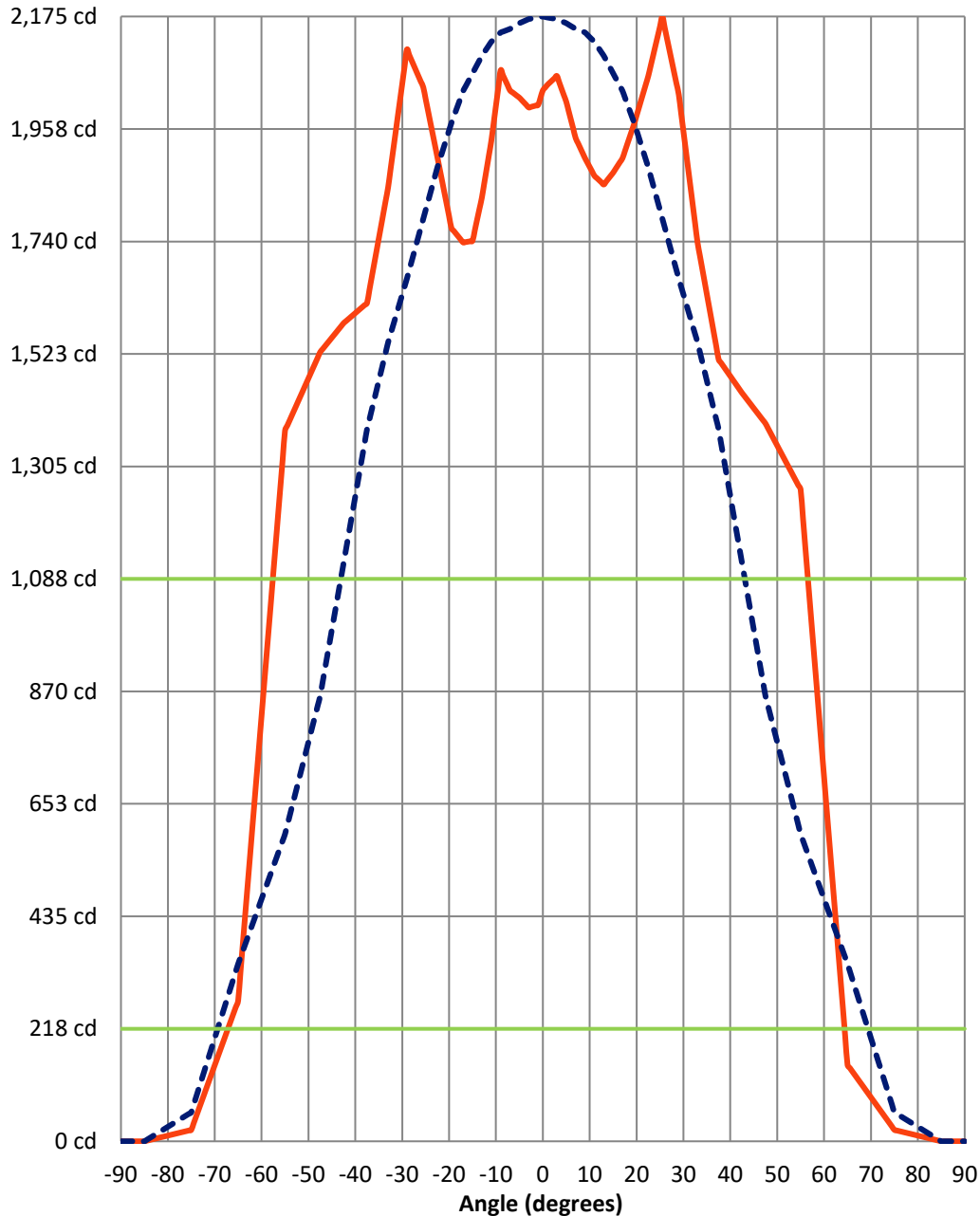
REPORT NUMBER: 08514
CATALOG NUMBER: MPSF-X-100

Luminous Intensity Polar Plot



REPORT NUMBER: 08514
 CATALOG NUMBER: MPSF-X-100

Luminous Intensity Plot



Beam:
 H Angle: 86.2°
 V Angle: 114.2°
 Lumens: 3828.5
 Efficiency: 76.3%

Field:
 H Angle: 138.7°
 V Angle: 131.6°
 Lumens: 4893.3
 Efficiency: 97.5%

Spill:
 Lumens: 126.3
 Efficiency: 2.5%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 25.5-Deg



REPORT NUMBER: 08514
 CATALOG NUMBER: MPSF-X-100

FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
75°	22	24	28	25	25	27	25	24	22	27	24
65°	148	152	153	160	161	164	167	181	178	183	183
55°	1260	1273	1269	1258	1246	1237	1235	1226	1211	1196	1166
47.5°	1388	1393	1394	1393	1391	1385	1376	1357	1330	1291	1252
42.5°	1447	1448	1452	1451	1452	1447	1441	1417	1387	1366	1315
37.5°	1512	1513	1512	1514	1507	1504	1494	1477	1456	1431	1393
33°	1738	1744	1767	1776	1778	1781	1752	1736	1711	1690	1662
29°	2024	2024	2029	2031	2033	2050	2045	2045	2031	2018	1969
25.5°	2175	2173	2170	2162	2151	2144	2126	2099	2065	2031	1969
22.5°	2060	2058	2043	2044	2046	2050	2034	2007	1975	1940	1896
19.5°	1968	1973	1962	1952	1947	1919	1894	1879	1878	1863	1827
17°	1901	1909	1914	1897	1886	1866	1845	1838	1848	1847	1792
15°	1873	1873	1884	1870	1858	1843	1829	1828	1847	1852	1809
13°	1850	1845	1853	1855	1858	1854	1848	1834	1817	1797	1767
11°	1867	1861	1863	1853	1841	1838	1831	1828	1822	1810	1760
9°	1901	1892	1892	1877	1868	1859	1856	1837	1844	1824	1785
7°	1940	1934	1967	1957	1935	1927	1910	1892	1883	1850	1828
5°	2010	2003	2027	2016	1997	1972	1960	1936	1915	1875	1825
3°	2060	2059	2043	2035	2020	2000	1986	1944	1917	1883	1822
1°	2043	2034	2031	2025	2018	2004	1993	1938	1895	1830	1803
0°	2032	2020	2006	1990	1997	1987	1972	1923	1880	1826	1797
-1°	2004	2011	1993	1971	1976	1968	1946	1902	1867	1816	1789
-3°	1999	2008	2008	1991	1979	1969	1954	1909	1866	1823	1771
-5°	2018	2031	2046	2043	2053	2037	1988	1936	1892	1880	1831
-7°	2032	2052	2083	2111	2151	2097	2028	1978	1948	1900	1865
-9°	2071	2069	2073	2059	2041	1987	1947	1918	1902	1869	1844
-11°	1934	1933	1930	1936	1920	1894	1871	1849	1834	1824	1788
-13°	1825	1827	1842	1850	1844	1835	1819	1803	1791	1767	1731
-15°	1741	1751	1760	1779	1781	1790	1788	1775	1764	1736	1695
-17°	1738	1747	1759	1776	1787	1793	1790	1768	1750	1714	1668
-19.5°	1766	1769	1781	1817	1828	1829	1817	1800	1781	1748	1711
-22.5°	1903	1907	1916	1921	1956	1987	1959	1916	1873	1840	1823
-25.5°	2038	2031	2029	2033	2046	2052	2050	2014	1965	1913	1856
-29°	2111	2111	2091	2042	2051	2065	2065	2018	1961	1893	1832
-33°	1845	1843	1838	1829	1820	1812	1799	1788	1753	1698	1638
-37.5°	1621	1624	1622	1619	1628	1624	1605	1572	1521	1475	1429
-42.5°	1582	1583	1583	1595	1616	1609	1586	1552	1505	1456	1398
-47.5°	1526	1526	1530	1528	1535	1545	1547	1527	1497	1458	1401
-55°	1374	1376	1391	1401	1394	1389	1380	1366	1332	1312	1284
-65°	272	277	285	288	293	290	278	285	309	326	340
-75°	22	27	32	28	28	33	34	36	33	31	27
-85°	0	0	0	0	0	0	0	0	1	0	1
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: 08514
 CATALOG NUMBER: MPSF-X-100

CANDELA DISTRIBUTION (continued):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	2	1	1	1	1	0	0	0	0	0	0
75°	24	24	17	14	11	7	4	6	19	0	0
65°	181	171	128	86	160	39	241	137	59	28	0
55°	1112	1044	957	843	730	612	543	398	94	71	1
47.5°	1190	1130	1055	961	868	743	655	537	192	93	2
42.5°	1267	1202	1103	1002	914	814	715	570	251	92	2
37.5°	1345	1279	1183	1090	990	888	773	591	301	89	0
33°	1616	1540	1441	1297	1187	1001	828	605	329	82	1
29°	1906	1813	1660	1511	1358	1087	859	602	343	69	1
25.5°	1883	1784	1668	1545	1377	1118	861	594	343	56	0
22.5°	1823	1734	1636	1504	1377	1130	839	587	347	48	0
19.5°	1766	1703	1609	1507	1377	1094	803	583	336	42	0
17°	1725	1675	1609	1523	1362	1064	788	573	327	38	0
15°	1759	1732	1652	1529	1343	1039	764	565	320	36	1
13°	1757	1732	1633	1519	1312	1015	737	554	320	32	1
11°	1741	1703	1603	1497	1288	992	707	545	320	30	1
9°	1774	1698	1612	1505	1281	992	681	540	319	30	1
7°	1760	1687	1641	1520	1309	989	668	540	315	29	0
5°	1759	1672	1634	1569	1330	978	660	537	313	30	0
3°	1745	1656	1593	1545	1316	954	646	540	312	30	1
1°	1740	1653	1594	1525	1310	949	648	546	308	30	1
0°	1738	1664	1596	1521	1304	959	648	547	307	31	1
-1°	1735	1675	1597	1516	1309	960	643	540	302	30	1
-3°	1748	1674	1586	1518	1331	975	646	535	297	30	1
-5°	1788	1722	1601	1521	1349	999	642	526	294	31	0
-7°	1804	1737	1597	1488	1335	1000	644	523	288	33	0
-9°	1742	1651	1562	1448	1298	987	656	523	286	34	0
-11°	1662	1586	1534	1437	1299	995	671	524	285	35	0
-13°	1630	1573	1529	1446	1325	1021	688	522	288	38	0
-15°	1620	1583	1552	1478	1331	1039	716	519	287	40	1
-17°	1626	1595	1569	1498	1346	1068	747	519	281	42	1
-19.5°	1673	1632	1586	1511	1349	1087	772	512	278	47	1
-22.5°	1759	1695	1632	1551	1365	1084	800	508	274	59	1
-25.5°	1785	1705	1652	1568	1408	1090	799	503	269	67	1
-29°	1743	1655	1586	1515	1377	1081	788	491	259	70	0
-33°	1577	1509	1440	1381	1260	1015	756	474	242	74	0
-37.5°	1381	1330	1265	1180	1090	939	706	458	214	75	0
-42.5°	1338	1273	1219	1132	1014	861	690	424	175	73	1
-47.5°	1343	1265	1192	1144	1009	787	630	391	136	65	1
-55°	1208	1141	1072	976	821	661	485	298	70	47	0
-65°	336	310	245	194	215	117	186	125	44	17	0
-75°	30	25	20	15	13	5	2	23	15	1	0
-85°	3	3	2	1	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: 08514
CATALOG NUMBER: MPSF-X-100

CANDELA DISTRIBUTION (continued):

	90°
90°	0
85°	0
75°	0
65°	0
55°	0
47.5°	0
42.5°	0
37.5°	0
33°	0
29°	0
25.5°	0
22.5°	0
19.5°	0
17°	0
15°	0
13°	0
11°	0
9°	0
7°	0
5°	0
3°	0
1°	0
0°	0
-1°	0
-3°	0
-5°	0
-7°	0
-9°	0
-11°	0
-13°	0
-15°	0
-17°	0
-19.5°	0
-22.5°	0
-25.5°	0
-29°	0
-33°	0
-37.5°	0
-42.5°	0
-47.5°	0
-55°	0
-65°	0
-75°	0
-85°	0
-90°	0

(END OF REPORT)