

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: P628411

Luminaire Tested: **IFLD-S-SA2A-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628411
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6015.4 lumens	Max Intensity:	1960.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

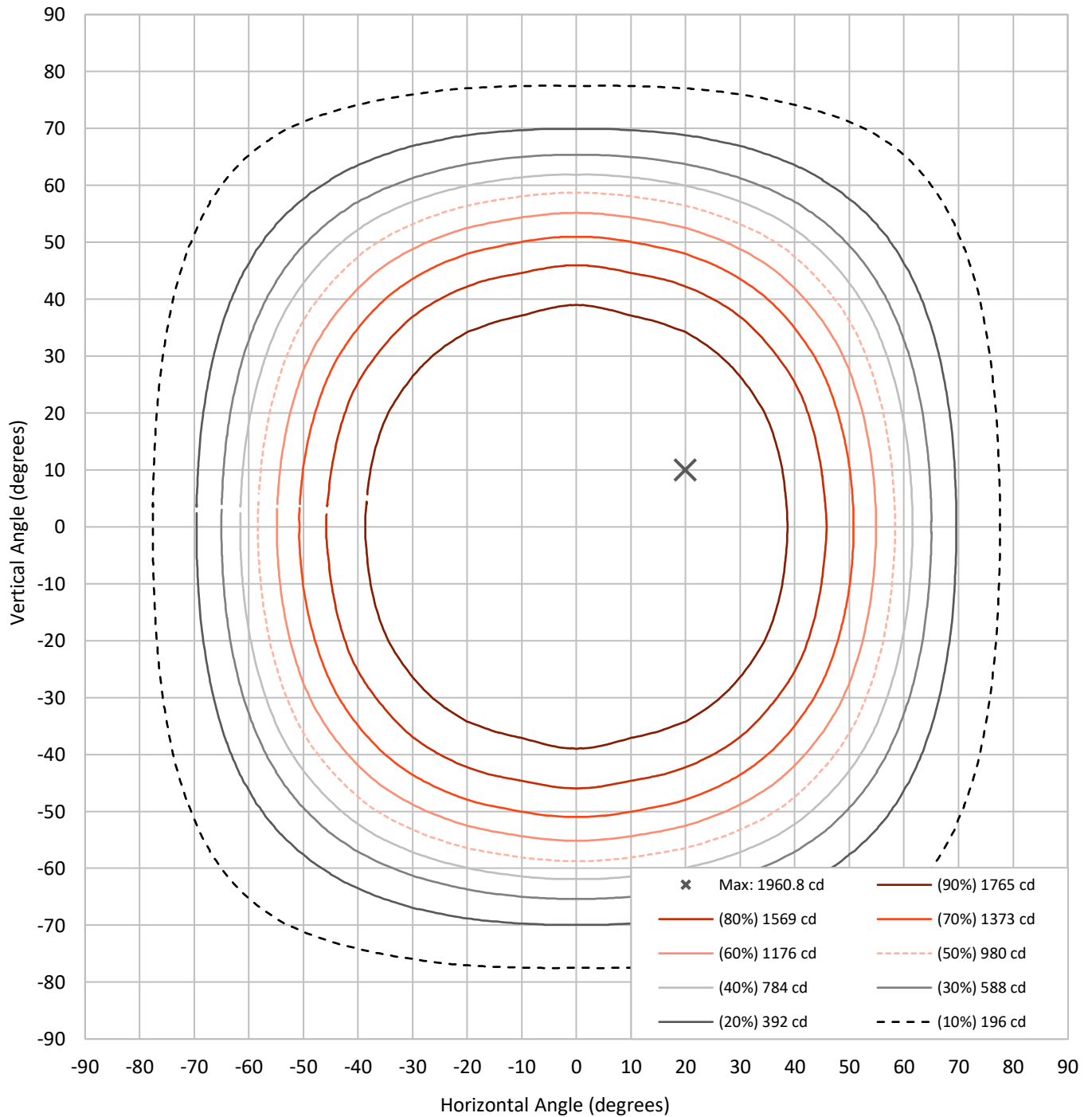
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	3691.2 lumens	Field Lumens:	4425.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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



REPORT NUMBER: P628411
CATALOG NUMBER: IFLD-S-SA2A-927-U-LAM

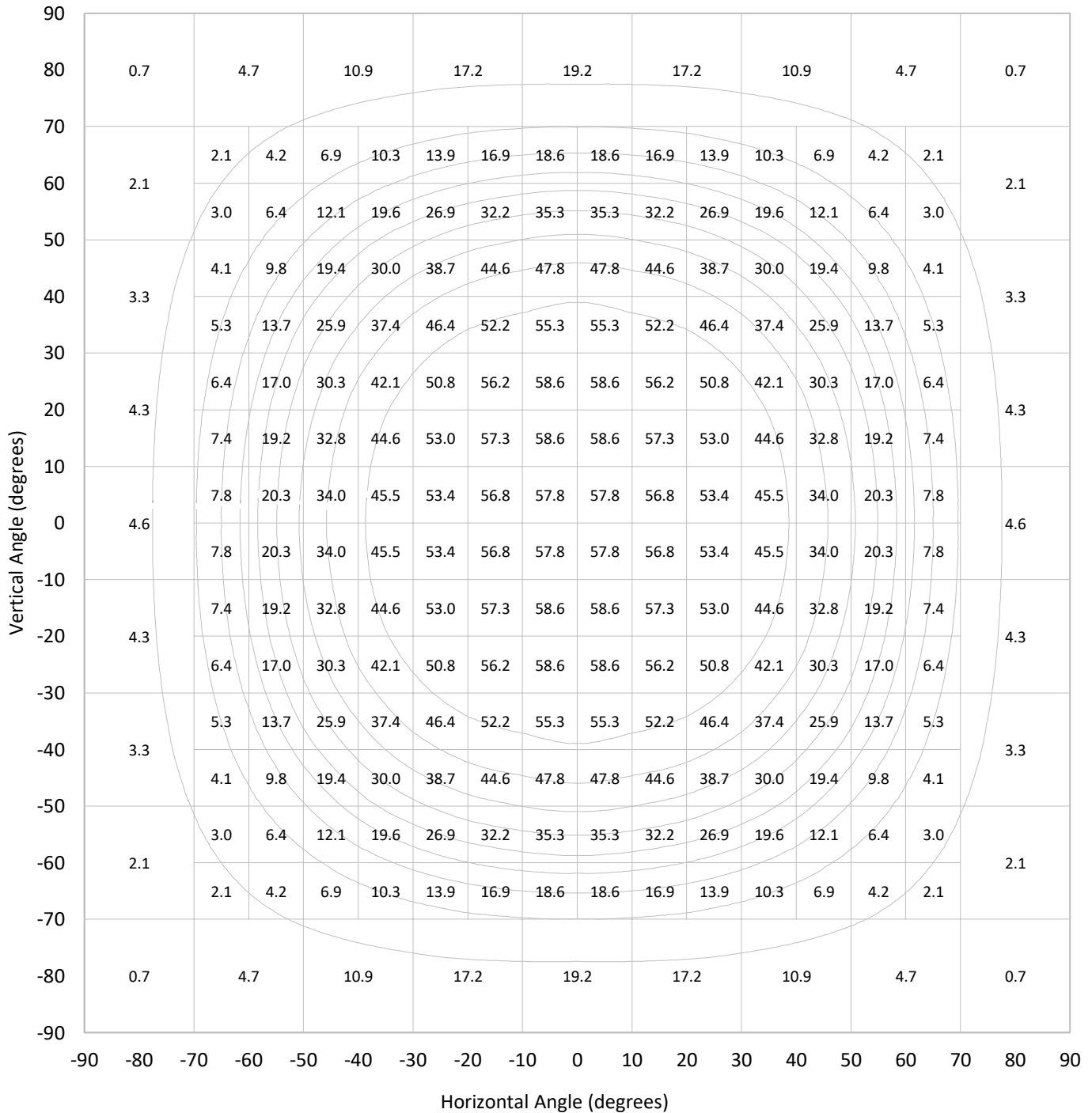
Iso-Candela Plot





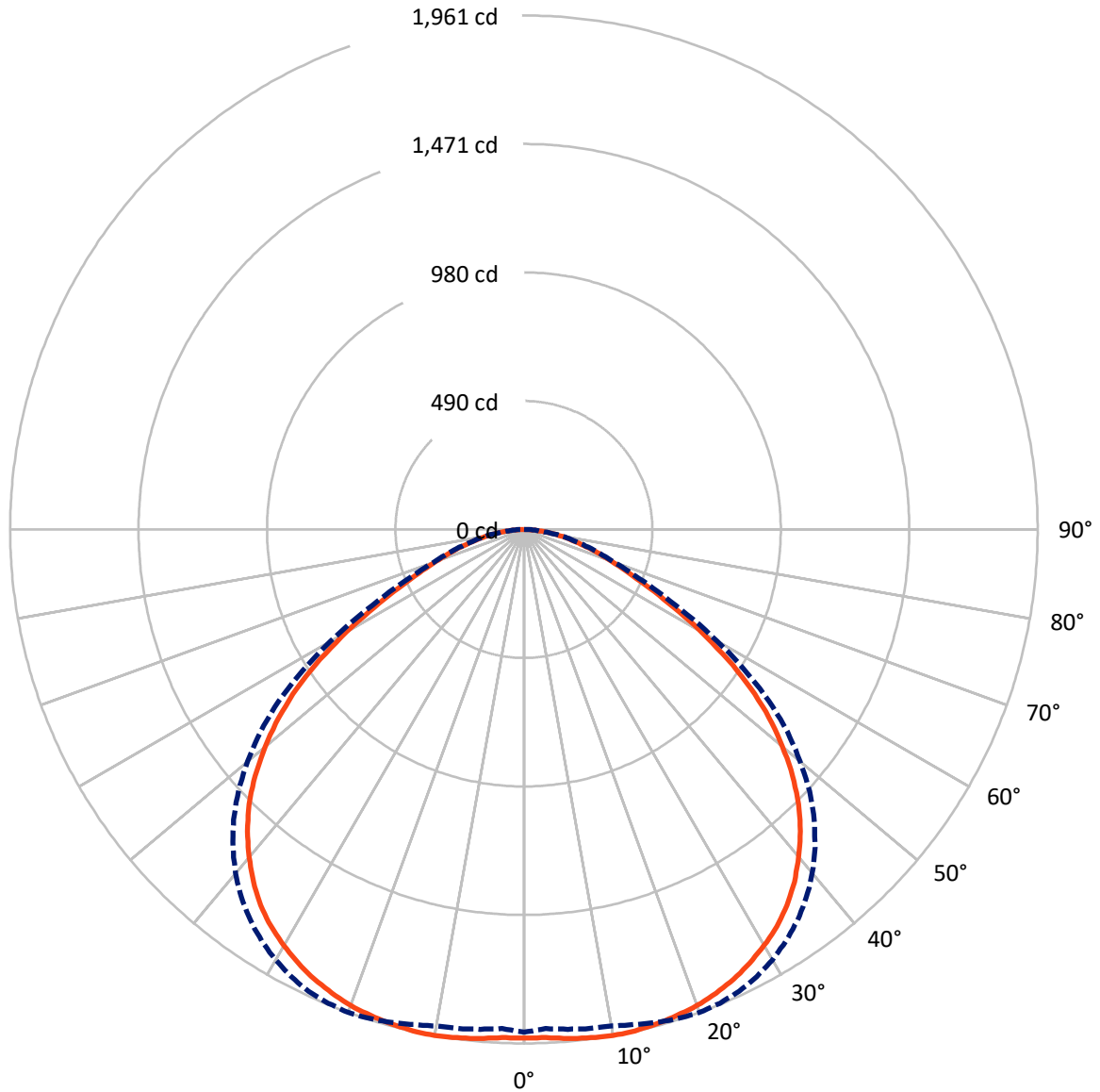
REPORT NUMBER: P628411
 CATALOG NUMBER: IFLD-S-SA2A-927-U-LAM

Lumen Table



REPORT NUMBER: P628411
CATALOG NUMBER: IFLD-S-SA2A-927-U-LAM

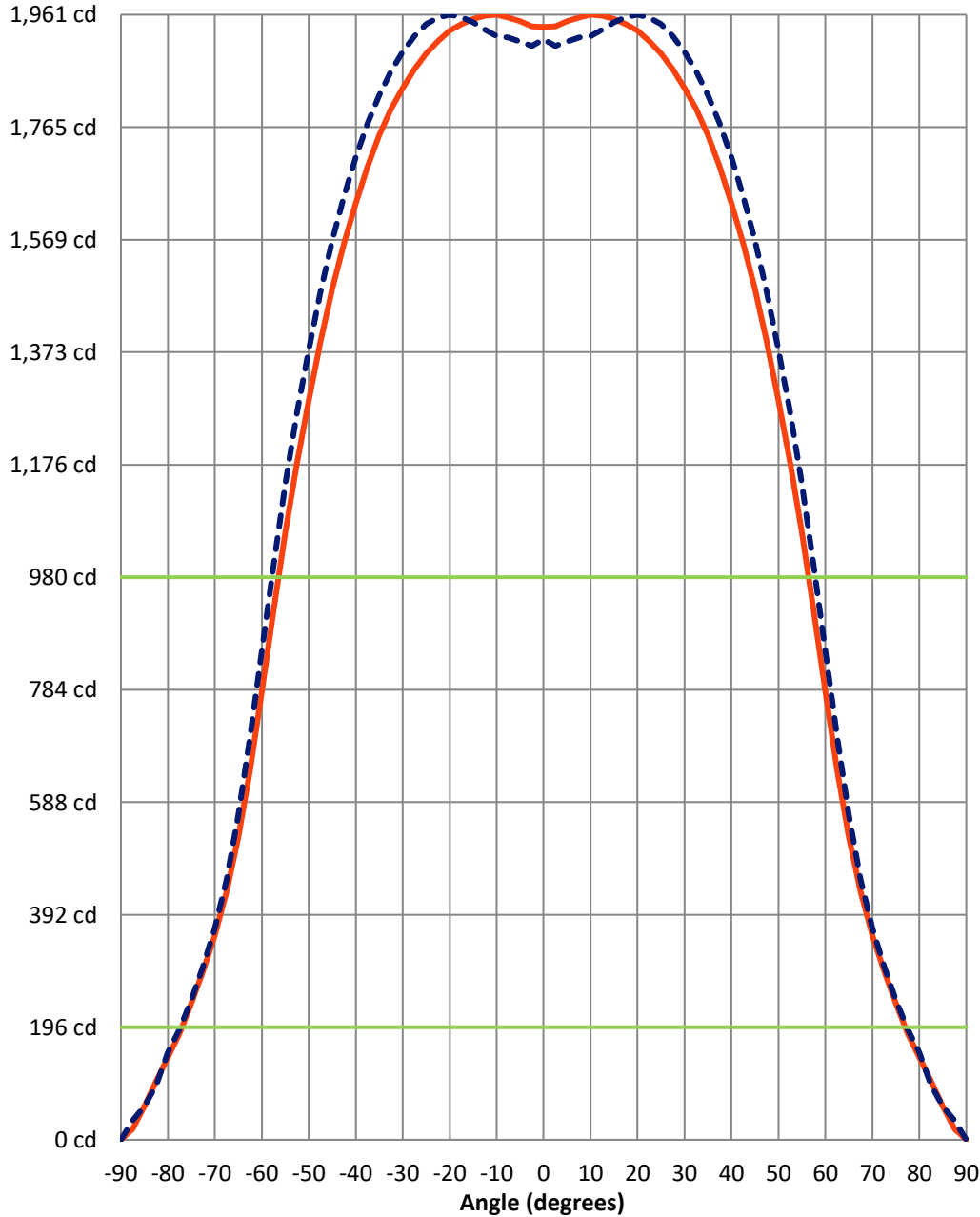
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P628411
CATALOG NUMBER: IFLD-S-SA2A-927-U-LAM

Luminous Intensity Plot



Beam:
H Angle: 115.7°
V Angle: 112.9°
Lumens: 3691.2
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 4425.1
Efficiency: 73.6%

Spill:
Lumens: 1590.3
Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



REPORT NUMBER: P628411
 CATALOG NUMBER: IFLD-S-SA2A-927-U-LAM

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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	17.1	17.7	18.4	19.0	19.6	20.3	19.6	19.0	19.0	18.4
85°	42.4	43.7	44.3	48.7	53.2	55.7	58.9	58.2	58.2	57.6	57.0
82.5°	84.8	88.6	91.8	96.2	98.7	102.5	105.1	103.2	101.9	99.4	97.5
80°	150.6	151.9	152.5	153.2	150.0	149.4	148.1	146.2	143.7	140.5	137.3
77.5°	191.8	193.0	194.3	193.0	192.4	191.8	189.9	188.0	185.4	182.9	179.1
75°	253.8	253.8	253.8	251.9	250.6	248.7	245.6	242.4	238.0	232.9	227.2
72.5°	319.6	319.0	318.4	314.6	311.4	307.6	303.2	299.4	294.3	288.6	281.0
70°	388.6	389.9	390.5	385.4	381.7	376.6	370.9	363.9	356.3	348.1	337.3
67.5°	483.6	482.3	481.0	474.1	469.0	462.0	453.8	443.7	432.3	419.6	404.4
65°	601.3	603.2	599.4	592.4	582.9	571.5	558.9	544.3	527.2	508.2	486.7
62.5°	743.7	746.8	742.4	733.6	721.5	706.3	688.6	667.7	644.3	617.7	591.1
60°	905.7	905.1	896.8	884.8	869.0	850.0	830.4	807.6	781.0	750.0	717.7
57.5°	1054.4	1053.2	1043.1	1031.0	1015.2	994.9	974.1	950.0	922.2	889.3	851.9
55°	1188.0	1186.7	1176.6	1163.9	1147.5	1127.2	1108.2	1085.5	1058.2	1023.4	983.6
52.5°	1306.3	1307.0	1298.1	1284.2	1266.5	1246.9	1228.5	1205.7	1179.8	1145.0	1106.3
50°	1415.2	1414.6	1405.1	1392.4	1376.0	1357.0	1338.6	1315.8	1288.6	1255.1	1217.7
47.5°	1516.5	1515.2	1504.4	1490.5	1473.4	1457.0	1439.9	1419.6	1391.2	1357.6	1320.3
45°	1601.3	1598.8	1588.0	1574.7	1558.2	1543.7	1528.5	1513.3	1482.9	1451.9	1416.5
42.5°	1674.1	1673.4	1662.7	1649.4	1632.9	1620.3	1606.3	1587.4	1562.0	1533.6	1498.8
40°	1743.7	1738.6	1727.9	1715.2	1700.0	1689.3	1675.3	1656.4	1631.7	1603.8	1570.3
37.5°	1795.6	1796.2	1784.8	1770.9	1757.6	1747.5	1734.8	1717.1	1695.6	1668.4	1634.8
35°	1845.0	1841.8	1832.3	1820.3	1808.3	1796.9	1783.6	1768.4	1750.7	1725.3	1693.7
32.5°	1877.2	1881.7	1870.3	1857.6	1850.7	1841.8	1827.9	1812.0	1796.2	1770.9	1742.4
30°	1912.7	1908.9	1900.0	1889.3	1884.2	1878.5	1866.5	1851.3	1832.9	1810.1	1783.6
27.5°	1937.4	1935.5	1924.7	1914.6	1912.0	1907.0	1897.5	1884.2	1865.8	1843.7	1819.0
25°	1948.1	1949.4	1939.3	1933.6	1933.6	1930.4	1922.8	1911.4	1893.1	1872.8	1848.8
22.5°	1953.2	1951.9	1945.0	1943.7	1946.9	1944.3	1941.2	1931.0	1914.6	1898.1	1877.9
20°	1956.4	1947.5	1941.2	1946.2	1950.0	1949.4	1946.9	1940.5	1932.9	1919.0	1901.3
17.5°	1949.4	1943.7	1936.1	1943.7	1951.9	1952.6	1950.0	1946.2	1944.3	1935.5	1919.6
15°	1932.3	1927.9	1929.1	1936.7	1946.2	1949.4	1951.3	1955.7	1953.2	1946.2	1932.3
12.5°	1920.9	1915.2	1920.9	1928.5	1933.6	1935.5	1950.7	1958.9	1958.9	1952.6	1943.7
10°	1917.7	1906.4	1913.9	1920.9	1923.4	1934.8	1947.5	1956.4	1960.8	1955.7	1944.3
7.5°	1911.4	1903.8	1907.0	1910.2	1924.7	1932.9	1939.9	1949.4	1955.7	1955.1	1945.0
5°	1908.3	1898.8	1900.0	1913.3	1923.4	1929.1	1931.7	1939.9	1949.4	1951.3	1943.7
2.5°	1900.0	1895.6	1905.1	1906.4	1913.9	1918.4	1920.9	1928.5	1940.5	1945.0	1941.8
0°	1895.6	1889.3	1882.9	1888.0	1900.7	1910.2	1913.9	1925.3	1939.3	1943.7	1936.7



REPORT NUMBER: P628411
 CATALOG NUMBER: IFLD-S-SA2A-927-U-LAM

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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	17.1	16.5	15.8	16.5	16.5	16.5	15.8	16.5	15.8	15.8
85°	55.1	52.5	50.6	48.1	45.6	43.7	41.1	38.6	38.0	37.3	36.1
82.5°	94.9	91.8	88.6	84.8	81.0	76.6	72.2	67.1	65.8	64.6	62.7
80°	133.5	129.1	124.7	120.3	116.5	112.0	107.0	101.3	97.5	94.3	90.5
77.5°	174.1	167.7	161.4	153.8	149.4	144.9	139.9	134.2	128.5	123.4	117.7
75°	220.3	213.3	207.0	199.4	191.1	182.9	174.7	167.1	158.9	151.3	143.7
72.5°	271.5	261.4	251.3	241.8	231.6	221.5	210.8	200.6	190.5	180.4	169.6
70°	325.3	312.7	300.0	287.3	274.1	260.8	248.1	235.4	222.8	209.5	197.5
67.5°	388.6	374.1	357.6	339.9	320.3	303.2	286.7	271.5	256.3	241.1	226.0
65°	467.7	447.5	425.3	401.3	378.5	355.7	331.6	308.9	291.1	273.4	256.3
62.5°	565.2	536.7	505.7	474.7	446.8	417.1	389.2	359.5	331.6	306.3	285.4
60°	681.7	643.0	605.1	565.2	526.6	486.1	450.6	413.9	379.1	348.1	317.7
57.5°	810.1	765.2	719.6	670.9	618.4	570.9	522.8	474.7	433.5	392.4	358.2
55°	940.5	893.0	841.8	786.7	729.1	668.4	603.2	549.4	493.0	444.9	400.6
52.5°	1064.6	1015.2	962.0	911.4	842.4	772.8	701.3	630.4	564.6	503.2	449.4
50°	1175.3	1127.2	1076.0	1017.1	953.2	879.1	799.4	719.6	641.8	569.6	502.5
47.5°	1276.6	1229.8	1178.5	1119.6	1061.4	979.1	898.7	810.8	724.1	641.1	562.7
45°	1371.5	1324.1	1270.9	1214.6	1147.5	1074.1	991.2	902.5	809.5	716.5	626.0
42.5°	1457.6	1410.1	1356.3	1298.1	1231.7	1158.9	1078.5	989.3	895.6	794.3	694.9
40°	1532.9	1486.7	1434.8	1374.1	1312.0	1235.5	1156.3	1071.5	974.7	872.8	763.3
37.5°	1598.8	1555.7	1504.4	1444.3	1378.5	1310.1	1228.5	1143.7	1056.3	945.6	833.6
35°	1657.0	1617.1	1564.6	1507.6	1443.1	1370.9	1294.3	1211.4	1117.1	1013.3	904.4
32.5°	1707.6	1667.1	1619.0	1562.0	1499.4	1431.7	1353.2	1269.6	1180.4	1074.7	956.3
30°	1750.7	1711.4	1665.8	1612.0	1551.9	1484.8	1408.2	1324.1	1232.9	1127.9	1010.8
27.5°	1788.0	1750.7	1706.4	1656.4	1598.8	1534.2	1457.0	1372.2	1279.1	1177.9	1060.8
25°	1820.3	1784.2	1743.1	1695.6	1638.6	1575.3	1502.6	1413.9	1320.9	1219.0	1103.2
22.5°	1849.4	1814.6	1773.4	1727.2	1675.3	1612.0	1538.6	1450.7	1356.3	1255.7	1141.8
20°	1875.3	1843.1	1802.6	1755.1	1703.2	1639.3	1566.5	1482.9	1388.0	1289.3	1176.6
17.5°	1896.2	1867.7	1827.2	1777.2	1725.3	1663.3	1592.4	1515.8	1415.2	1317.7	1205.7
15°	1910.8	1882.9	1846.2	1795.6	1745.0	1683.6	1612.7	1533.6	1439.9	1340.5	1229.8
12.5°	1920.9	1891.2	1857.0	1810.1	1759.5	1698.8	1629.8	1551.9	1460.8	1360.8	1250.6
10°	1923.4	1896.2	1862.0	1820.3	1770.9	1712.0	1644.3	1567.1	1477.9	1376.6	1267.7
7.5°	1924.7	1898.8	1867.7	1827.9	1779.1	1722.2	1655.1	1579.1	1490.5	1389.9	1280.4
5°	1924.1	1899.4	1871.5	1832.9	1784.2	1727.9	1662.0	1587.4	1499.4	1398.8	1289.9
2.5°	1922.2	1900.0	1874.1	1836.7	1789.9	1734.2	1669.0	1596.9	1508.9	1406.3	1297.5
0°	1927.2	1908.3	1875.3	1835.5	1791.2	1734.2	1668.4	1598.1	1510.1	1405.7	1296.9



REPORT NUMBER: P628411
 CATALOG NUMBER: IFLD-S-SA2A-927-U-LAM

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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	15.2	15.2	14.6	13.9	13.3	12.0	11.4	10.1	8.2	6.3
85°	34.2	32.3	30.4	29.1	27.8	26.6	24.7	22.8	20.3	16.5	12.7
82.5°	60.1	56.3	52.5	48.1	44.3	40.5	37.3	34.2	30.4	24.7	19.0
80°	86.1	80.4	74.7	68.4	62.7	56.3	50.6	45.6	40.5	32.9	25.3
77.5°	112.0	104.4	96.2	88.6	80.4	72.2	63.9	57.0	49.4	40.5	31.6
75°	136.1	127.2	119.6	108.9	98.7	88.0	77.2	67.7	58.2	47.5	38.0
72.5°	160.1	148.7	138.0	127.8	116.5	103.2	91.1	79.1	67.1	54.4	43.0
70°	184.2	170.3	157.0	144.9	132.3	119.0	104.4	90.5	76.0	60.8	47.5
67.5°	208.9	193.0	177.9	162.7	148.1	132.9	117.7	101.9	84.8	67.1	52.5
65°	236.1	216.5	198.1	181.0	163.9	147.5	130.4	113.3	94.3	74.1	57.0
62.5°	263.3	241.8	220.3	198.7	179.7	161.4	143.0	124.1	103.2	81.6	61.4
60°	292.4	267.7	243.0	219.0	195.6	175.3	155.1	134.8	112.7	88.6	65.8
57.5°	324.7	294.9	267.1	239.9	213.3	189.2	167.1	145.6	120.9	95.6	70.9
55°	361.4	324.7	291.8	261.4	232.3	203.2	179.1	157.0	130.4	102.5	76.6
52.5°	400.0	357.6	317.7	283.5	252.5	219.6	190.5	165.8	139.9	109.5	81.6
50°	444.9	391.1	346.8	305.1	270.3	236.1	202.5	176.0	149.4	117.7	86.7
47.5°	491.1	431.7	376.0	330.4	289.2	251.9	216.5	184.8	158.2	125.3	91.8
45°	544.9	470.3	408.9	355.1	307.6	268.4	230.4	194.3	165.8	132.9	96.8
42.5°	596.8	515.8	443.0	382.3	328.5	284.2	243.0	204.4	173.4	140.5	101.3
40°	658.2	561.4	476.0	408.2	349.4	299.4	255.7	215.2	180.4	147.5	105.7
37.5°	717.1	607.6	515.8	436.7	369.6	314.6	268.4	225.3	186.7	154.4	111.4
35°	775.3	658.9	553.8	463.3	390.5	331.6	281.0	234.8	193.0	160.1	116.5
32.5°	831.0	707.0	592.4	493.0	413.3	347.5	292.4	243.7	199.4	165.2	121.5
30°	882.9	752.5	630.4	523.4	434.2	362.0	303.2	252.5	207.0	169.6	126.6
27.5°	930.4	796.8	668.4	551.9	453.8	375.3	314.6	260.8	213.3	174.1	131.0
25°	973.4	836.7	703.2	577.9	471.5	389.9	325.3	269.0	219.0	177.9	134.8
22.5°	1013.9	873.4	734.8	603.8	493.0	404.4	335.4	276.6	224.7	181.6	138.6
20°	1049.4	907.0	765.2	629.8	512.0	417.7	344.3	283.5	229.7	184.2	142.4
17.5°	1077.9	936.7	792.4	652.5	528.5	429.1	351.9	289.9	234.2	187.3	144.9
15°	1103.2	962.0	815.2	672.2	543.0	438.6	358.9	294.9	238.0	189.2	148.1
12.5°	1124.7	983.6	834.8	689.2	555.7	446.8	364.6	298.7	241.1	191.1	150.0
10°	1142.4	1000.6	851.3	702.5	565.8	453.2	369.0	302.5	243.7	193.0	151.9
7.5°	1155.7	1013.3	863.3	713.9	574.1	457.6	372.8	305.1	246.2	194.3	155.1
5°	1165.8	1024.1	872.8	721.5	580.4	463.9	377.2	308.2	248.7	195.6	155.1
2.5°	1173.4	1032.9	880.4	727.9	585.5	462.7	377.2	307.6	248.7	195.6	154.4
0°	1172.2	1033.6	879.8	727.9	585.5	461.4	377.2	307.0	248.7	195.6	154.4



REPORT NUMBER: P628411
 CATALOG NUMBER: IFLD-S-SA2A-927-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.4	3.2	1.3	0.0
85°	9.5	6.3	3.2	0.0
82.5°	13.9	8.9	4.4	0.0
80°	18.4	12.0	5.7	0.0
77.5°	23.4	15.2	7.6	0.0
75°	27.8	17.7	8.9	0.0
72.5°	32.3	20.9	10.1	0.0
70°	36.1	23.4	11.4	0.0
67.5°	39.9	26.6	13.3	0.0
65°	43.0	29.1	14.6	0.0
62.5°	45.6	32.3	15.8	0.0
60°	48.7	34.8	17.1	0.0
57.5°	51.3	36.7	18.4	0.0
55°	53.8	38.0	19.6	0.0
52.5°	56.3	39.9	20.9	0.0
50°	58.9	41.8	22.2	0.0
47.5°	61.4	43.0	22.8	0.0
45°	65.2	44.9	24.1	0.0
42.5°	68.4	46.2	25.3	0.0
40°	71.5	47.5	25.9	0.0
37.5°	74.7	48.7	27.2	0.0
35°	77.8	50.0	27.8	0.0
32.5°	80.4	51.3	28.5	0.0
30°	82.9	52.5	29.1	0.0
27.5°	85.4	53.2	29.7	0.0
25°	87.3	54.4	30.4	0.0
22.5°	89.2	55.1	31.0	0.0
20°	90.5	55.7	31.6	0.0
17.5°	92.4	56.3	32.3	0.0
15°	93.0	57.0	33.5	0.0
12.5°	94.3	57.6	33.5	0.0
10°	94.9	58.2	33.5	0.0
7.5°	96.2	58.2	33.5	0.0
5°	95.6	58.2	33.5	0.0
2.5°	95.6	58.2	33.5	0.0
0°	94.9	58.2	33.5	0.0

(END OF REPORT)