

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: P640067

Luminaire Tested: **IFLD-S-SA6A-AMB-U-LAM**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640067
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-AMB-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

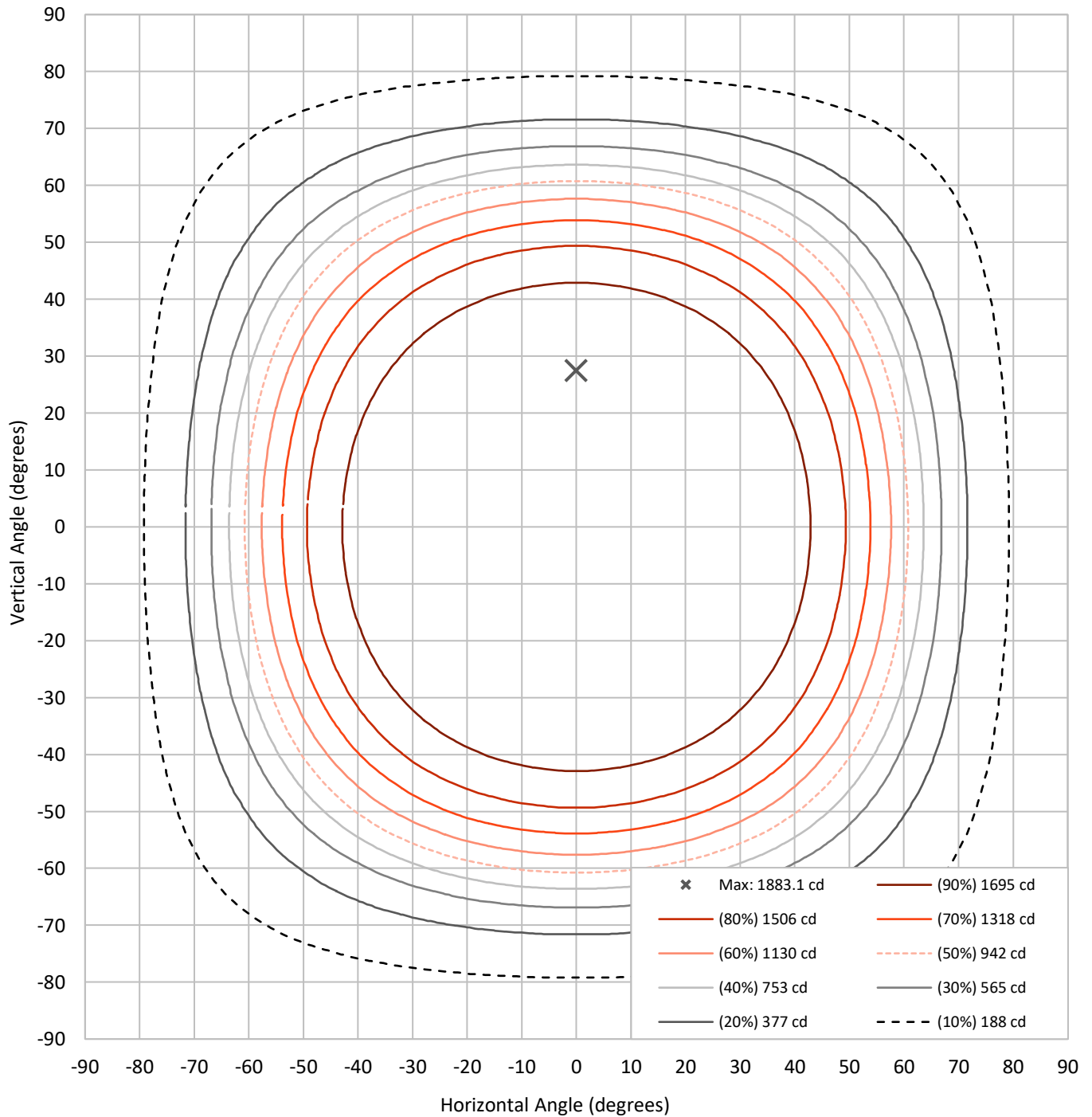
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6145.2 lumens	Max Intensity:	1883.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 27.5°V
Efficacy:	32.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	113.2°H x 121.5°V	Field Angle (10%):	155.5°H x 158.4°V
Beam Lumens:	3857 lumens	Field Lumens:	4537 lumens
Beam Efficiency:	62.8%	Field Efficiency:	73.8%
Input Watts (W):	189.6		
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		



REPORT NUMBER: P640067
CATALOG NUMBER: IFLD-S-SA6A-AMB-U-LAM

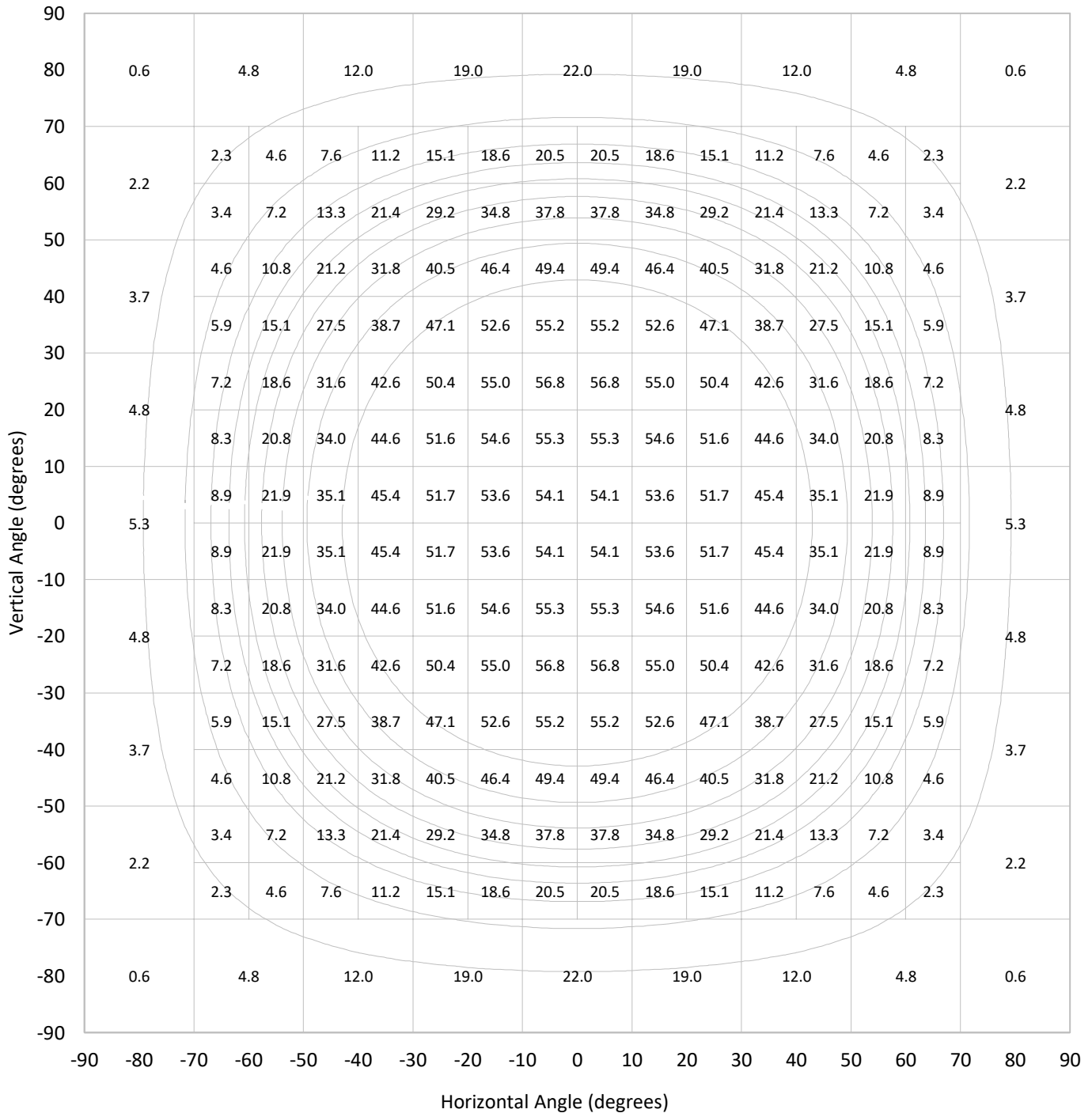
Iso-Candela Plot





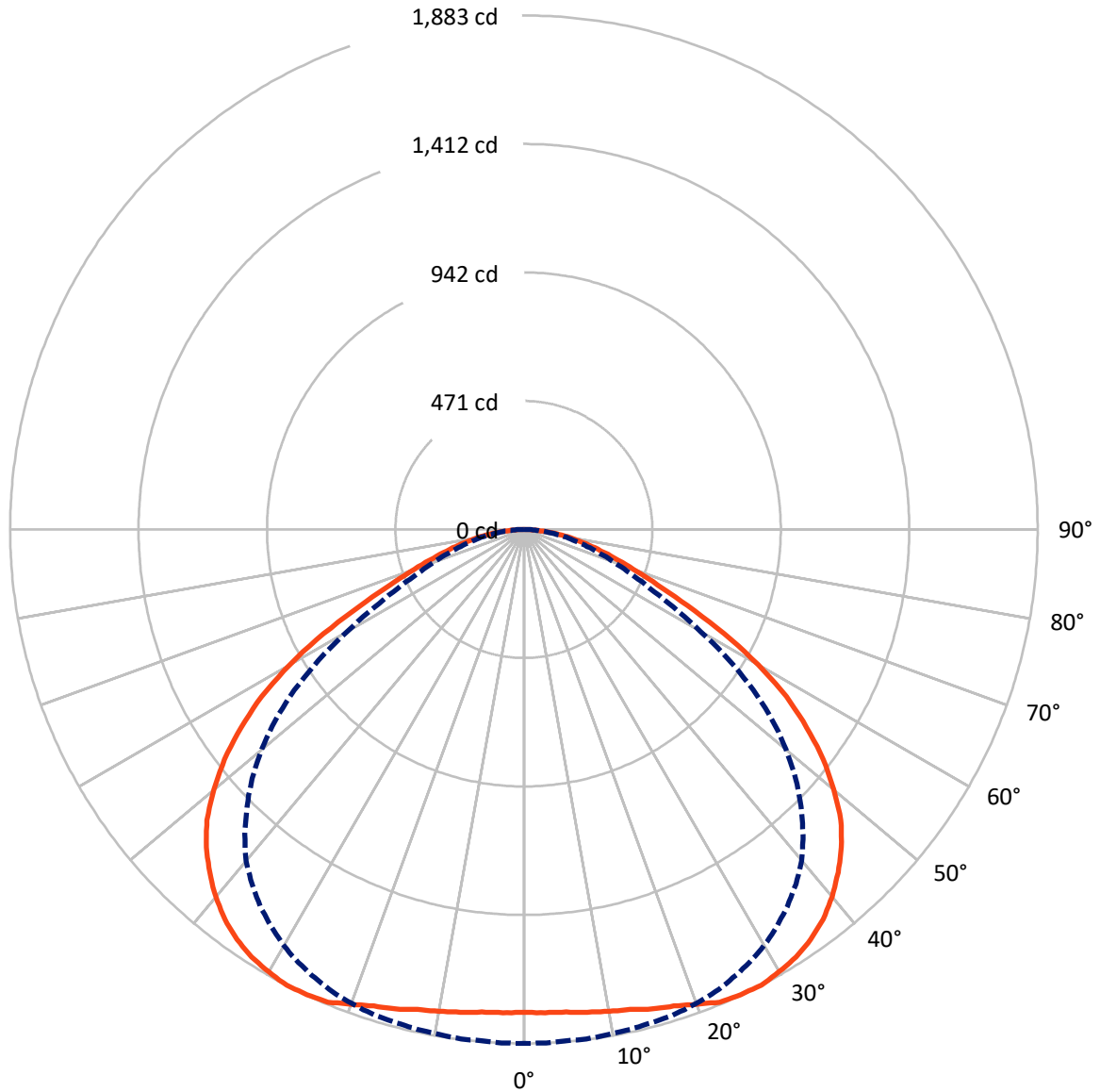
REPORT NUMBER: P640067
 CATALOG NUMBER: IFLD-S-SA6A-AMB-U-LAM

Lumen Table



REPORT NUMBER: P640067
CATALOG NUMBER: IFLD-S-SA6A-AMB-U-LAM

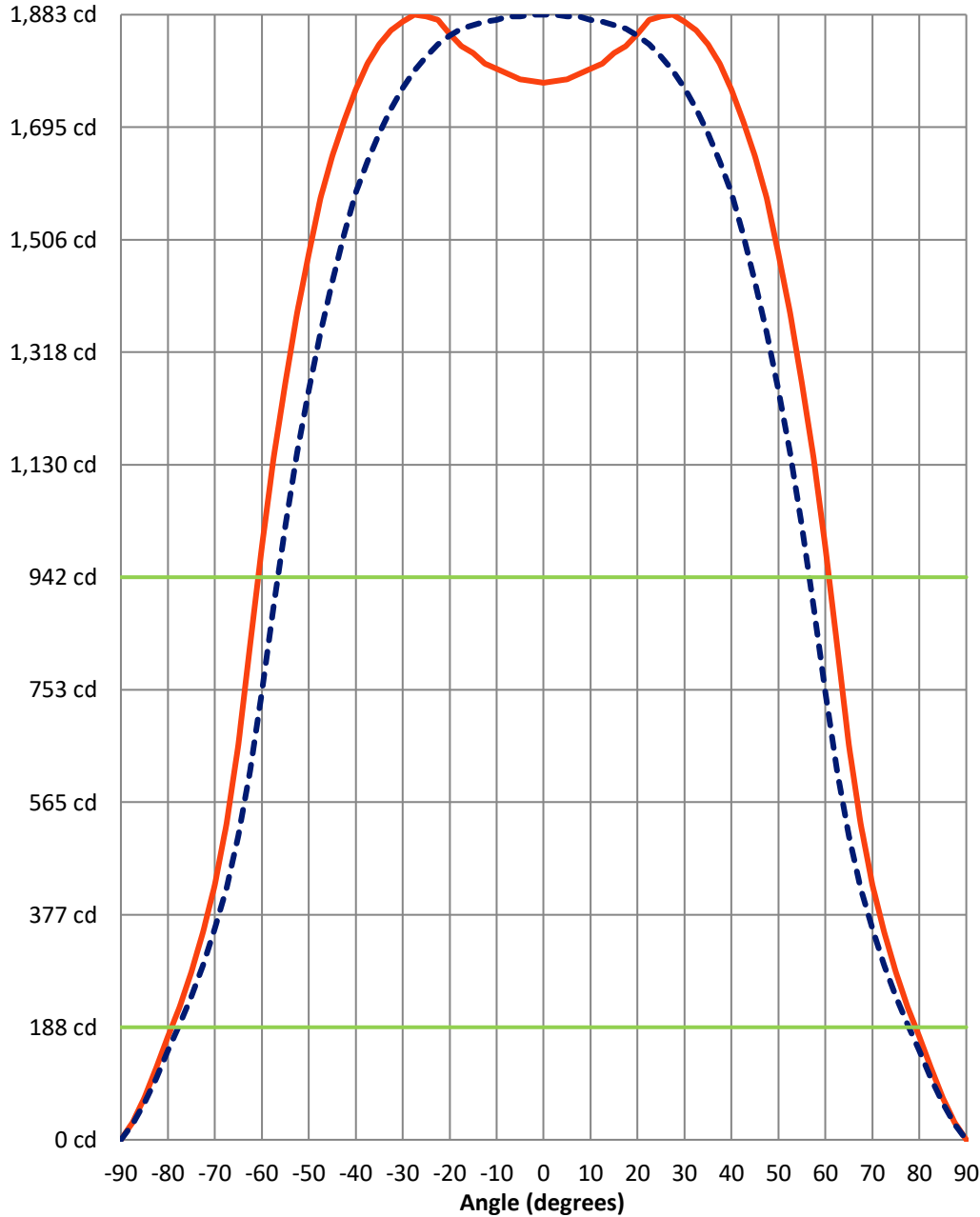
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 27.5-Deg

REPORT NUMBER: P640067
 CATALOG NUMBER: IFLD-S-SA6A-AMB-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 113.2°
 V Angle: 121.5°
 Lumens: 3857
 Efficiency: 62.8%

Field:
 H Angle: 155.5°
 V Angle: 158.4°
 Lumens: 4537
 Efficiency: 73.8%

Spill:
 Lumens: 1608.2
 Efficiency: 26.2%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 27.5-Deg



REPORT NUMBER: P640067
 CATALOG NUMBER: IFLD-S-SA6A-AMB-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°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	26.3	26.3	26.3
85°	70.2	70.2	70.2	70.2	70.2	67.3	67.3	67.3	64.3	64.3	61.4
82.5°	119.9	119.9	119.9	119.9	117.0	117.0	114.0	114.0	111.1	108.2	105.3
80°	172.5	172.5	172.5	172.5	169.6	166.7	166.7	163.7	160.8	155.0	152.1
77.5°	222.2	222.2	222.2	219.3	219.3	216.4	213.5	210.5	207.6	201.8	198.8
75°	280.7	280.7	280.7	277.8	274.9	271.9	269.0	263.2	260.2	254.4	248.5
72.5°	348.0	348.0	348.0	345.0	339.2	336.3	330.4	324.6	318.7	310.0	301.2
70°	426.9	426.9	426.9	421.1	418.1	412.3	403.5	397.7	386.0	377.2	365.5
67.5°	529.3	529.3	529.3	520.5	514.6	505.9	497.1	485.4	470.8	456.2	438.6
65°	660.8	660.8	655.0	649.1	640.4	628.7	614.1	596.5	576.0	555.6	529.3
62.5°	827.5	827.5	818.7	810.0	798.3	780.7	760.3	736.9	707.6	678.4	646.2
60°	991.3	991.3	982.5	973.7	959.1	941.6	918.2	891.8	862.6	827.5	789.5
57.5°	1140.4	1140.4	1131.6	1122.9	1108.2	1087.8	1067.3	1041.0	1011.7	976.6	935.7
55°	1266.1	1266.1	1257.4	1248.6	1236.9	1219.3	1198.9	1172.6	1146.2	1111.2	1070.2
52.5°	1383.1	1383.1	1374.3	1365.5	1350.9	1333.4	1312.9	1289.5	1260.3	1228.1	1190.1
50°	1482.5	1482.5	1476.7	1465.0	1453.3	1438.7	1418.2	1394.8	1368.5	1333.4	1295.4
47.5°	1576.1	1576.1	1567.3	1558.5	1546.8	1529.3	1508.8	1485.4	1459.1	1427.0	1391.9
45°	1646.3	1646.3	1640.4	1631.6	1622.9	1608.2	1593.6	1576.1	1543.9	1511.8	1476.7
42.5°	1704.7	1704.7	1698.9	1693.0	1681.4	1669.7	1655.0	1637.5	1614.1	1587.8	1555.6
40°	1757.4	1757.4	1751.5	1745.7	1736.9	1725.2	1710.6	1690.1	1669.7	1646.3	1617.0
37.5°	1801.2	1801.2	1795.4	1789.5	1780.8	1772.0	1757.4	1739.8	1719.4	1696.0	1669.7
35°	1833.4	1833.4	1830.5	1824.6	1818.8	1810.0	1798.3	1780.8	1763.2	1739.8	1713.5
32.5°	1856.8	1856.8	1853.9	1850.9	1845.1	1836.3	1827.6	1815.9	1801.2	1777.8	1754.5
30°	1871.4	1871.4	1868.5	1865.6	1862.6	1856.8	1850.9	1839.3	1827.6	1810.0	1786.6
27.5°	1883.1	1883.1	1880.2	1880.2	1874.3	1871.4	1865.6	1859.7	1848.0	1833.4	1812.9
25°	1880.2	1880.2	1880.2	1880.2	1883.1	1883.1	1877.3	1871.4	1862.6	1850.9	1836.3
22.5°	1874.3	1874.3	1874.3	1877.3	1880.2	1880.2	1883.1	1880.2	1871.4	1862.6	1850.9
20°	1850.9	1850.9	1856.8	1862.6	1871.4	1877.3	1880.2	1883.1	1880.2	1871.4	1862.6
17.5°	1830.5	1830.5	1836.3	1842.2	1850.9	1862.6	1874.3	1880.2	1883.1	1880.2	1871.4
15°	1818.8	1818.8	1821.7	1827.6	1833.4	1845.1	1859.7	1874.3	1880.2	1883.1	1877.3
12.5°	1801.2	1804.2	1807.1	1815.9	1824.6	1830.5	1845.1	1862.6	1877.3	1880.2	1883.1
10°	1792.5	1792.5	1795.4	1801.2	1812.9	1824.6	1833.4	1850.9	1871.4	1880.2	1883.1
7.5°	1783.7	1783.7	1789.5	1795.4	1801.2	1815.9	1827.6	1842.2	1862.6	1877.3	1880.2
5°	1774.9	1777.8	1780.8	1789.5	1795.4	1807.1	1821.7	1836.3	1856.8	1874.3	1880.2
2.5°	1772.0	1772.0	1777.8	1783.7	1792.5	1804.2	1818.8	1830.5	1850.9	1874.3	1880.2
0°	1769.1	1772.0	1774.9	1783.7	1792.5	1801.2	1818.8	1830.5	1850.9	1874.3	1880.2



REPORT NUMBER: P640067
 CATALOG NUMBER: IFLD-S-SA6A-AMB-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°	26.3	26.3	23.4	23.4	23.4	23.4	20.5	20.5	20.5	17.5	17.5
85°	61.4	58.5	58.5	55.6	52.6	49.7	49.7	46.8	43.9	40.9	38.0
82.5°	102.3	99.4	96.5	93.6	87.7	84.8	81.9	76.0	70.2	67.3	64.3
80°	149.1	143.3	140.4	134.5	128.7	122.8	117.0	111.1	105.3	99.4	90.6
77.5°	193.0	187.1	184.2	175.4	169.6	163.7	155.0	146.2	140.4	131.6	122.8
75°	239.8	233.9	225.2	216.4	210.5	201.8	193.0	184.2	172.5	163.7	152.1
72.5°	292.4	283.6	274.9	263.2	251.5	242.7	228.1	216.4	207.6	195.9	184.2
70°	353.8	342.1	327.5	315.8	301.2	286.6	271.9	257.3	242.7	228.1	213.5
67.5°	421.1	406.4	388.9	371.4	353.8	336.3	318.7	298.3	280.7	263.2	245.6
65°	508.8	488.3	462.0	438.6	415.2	391.8	368.4	345.0	324.6	301.2	280.7
62.5°	617.0	584.8	552.7	517.6	488.3	456.2	426.9	397.7	368.4	342.1	315.8
60°	748.6	704.7	660.8	617.0	576.0	529.3	494.2	456.2	418.1	386.0	353.8
57.5°	891.8	842.1	789.5	733.9	675.5	622.8	573.1	523.4	479.6	435.7	397.7
55°	1026.4	976.6	921.1	862.6	798.3	731.0	660.8	605.3	543.9	494.2	444.5
52.5°	1149.2	1099.5	1043.9	991.3	918.2	848.0	772.0	693.0	622.8	558.5	500.0
50°	1254.4	1207.6	1157.9	1096.5	1029.3	959.1	880.2	795.4	710.6	628.7	558.5
47.5°	1350.9	1304.1	1251.5	1196.0	1140.4	1061.4	982.5	894.8	804.1	710.6	622.8
45°	1435.7	1394.8	1342.2	1283.7	1222.3	1155.0	1076.1	991.3	894.8	795.4	693.0
42.5°	1514.7	1470.8	1421.1	1365.5	1304.1	1234.0	1160.9	1076.1	982.5	880.2	772.0
40°	1584.9	1541.0	1491.3	1438.7	1383.1	1310.0	1234.0	1155.0	1061.4	959.1	848.0
37.5°	1637.5	1602.4	1558.5	1503.0	1441.6	1383.1	1304.1	1222.3	1140.4	1029.3	918.2
35°	1684.3	1649.2	1611.2	1561.5	1503.0	1438.7	1365.5	1283.7	1196.0	1096.5	991.3
32.5°	1725.2	1690.1	1655.0	1611.2	1558.5	1491.3	1421.1	1342.2	1251.5	1157.9	1043.9
30°	1760.3	1728.1	1690.1	1649.2	1602.4	1541.0	1470.8	1394.8	1304.1	1207.6	1099.5
27.5°	1789.5	1760.3	1725.2	1684.3	1637.5	1584.9	1514.7	1435.7	1350.9	1254.4	1149.2
25°	1812.9	1786.6	1754.5	1713.5	1669.7	1617.0	1555.6	1476.7	1391.9	1295.4	1190.1
22.5°	1833.4	1810.0	1777.8	1739.8	1696.0	1646.3	1587.8	1511.8	1427.0	1333.4	1228.1
20°	1848.0	1827.6	1801.2	1763.2	1719.4	1669.7	1614.1	1543.9	1459.1	1368.5	1260.3
17.5°	1859.7	1839.3	1815.9	1780.8	1739.8	1690.1	1637.5	1576.1	1485.4	1394.8	1289.5
15°	1865.6	1850.9	1827.6	1798.3	1757.4	1710.6	1655.0	1593.6	1508.8	1418.2	1312.9
12.5°	1871.4	1856.8	1836.3	1810.0	1772.0	1725.2	1669.7	1608.2	1529.3	1438.7	1333.4
10°	1874.3	1862.6	1845.1	1818.8	1780.8	1736.9	1681.4	1622.9	1546.8	1453.3	1350.9
7.5°	1880.2	1865.6	1850.9	1824.6	1789.5	1745.7	1693.0	1631.6	1558.5	1465.0	1365.5
5°	1880.2	1868.5	1853.9	1830.5	1795.4	1751.5	1698.9	1640.4	1567.3	1476.7	1374.3
2.5°	1883.1	1871.4	1856.8	1833.4	1801.2	1757.4	1704.7	1646.3	1576.1	1482.5	1383.1
0°	1883.1	1871.4	1856.8	1833.4	1801.2	1757.4	1704.7	1646.3	1576.1	1482.5	1383.1



REPORT NUMBER: P640067
 CATALOG NUMBER: IFLD-S-SA6A-AMB-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°	17.5	14.6	14.6	14.6	11.7	11.7	8.8	8.8	8.8	5.8	5.8
85°	35.1	32.2	29.2	26.3	23.4	23.4	20.5	17.5	14.6	11.7	8.8
82.5°	58.5	55.6	49.7	43.9	40.9	35.1	29.2	26.3	23.4	17.5	14.6
80°	84.8	76.0	70.2	64.3	58.5	49.7	43.9	38.0	29.2	26.3	20.5
77.5°	111.1	102.3	93.6	84.8	76.0	67.3	58.5	49.7	40.9	32.2	26.3
75°	140.4	131.6	119.9	108.2	96.5	84.8	73.1	61.4	52.6	40.9	29.2
72.5°	172.5	157.9	143.3	128.7	117.0	102.3	87.7	73.1	61.4	49.7	38.0
70°	198.8	184.2	169.6	152.1	137.4	119.9	105.3	87.7	73.1	58.5	43.9
67.5°	225.2	210.5	193.0	175.4	157.9	140.4	119.9	102.3	84.8	67.3	49.7
65°	257.3	236.9	216.4	198.8	178.4	157.9	137.4	117.0	96.5	76.0	58.5
62.5°	289.5	266.1	242.7	219.3	198.8	175.4	152.1	128.7	108.2	84.8	64.3
60°	324.6	295.3	269.0	242.7	216.4	193.0	169.6	143.3	119.9	93.6	70.2
57.5°	362.6	327.5	295.3	266.1	236.9	210.5	184.2	157.9	131.6	102.3	76.0
55°	400.6	362.6	324.6	289.5	257.3	225.2	198.8	172.5	140.4	111.1	84.8
52.5°	444.5	397.7	353.8	315.8	280.7	245.6	213.5	184.2	152.1	122.8	90.6
50°	494.2	435.7	386.0	342.1	301.2	263.2	228.1	195.9	163.7	131.6	99.4
47.5°	543.9	479.6	418.1	368.4	324.6	280.7	242.7	207.6	172.5	140.4	105.3
45°	605.3	523.4	456.2	397.7	345.0	298.3	257.3	216.4	184.2	146.2	111.1
42.5°	660.8	573.1	494.2	426.9	368.4	318.7	271.9	228.1	193.0	155.0	117.0
40°	731.0	622.8	529.3	456.2	391.8	336.3	286.6	242.7	201.8	163.7	122.8
37.5°	798.3	675.5	576.0	488.3	415.2	353.8	301.2	251.5	210.5	169.6	128.7
35°	862.6	733.9	617.0	517.6	438.6	371.4	315.8	263.2	216.4	175.4	134.5
32.5°	921.1	789.5	660.8	552.7	462.0	388.9	327.5	274.9	225.2	184.2	140.4
30°	976.6	842.1	704.7	584.8	488.3	406.4	342.1	283.6	233.9	187.1	143.3
27.5°	1026.4	891.8	748.6	617.0	508.8	421.1	353.8	292.4	239.8	193.0	149.1
25°	1070.2	935.7	789.5	646.2	529.3	438.6	365.5	301.2	248.5	198.8	152.1
22.5°	1111.2	976.6	827.5	678.4	555.6	456.2	377.2	310.0	254.4	201.8	155.0
20°	1146.2	1011.7	862.6	707.6	576.0	470.8	386.0	318.7	260.2	207.6	160.8
17.5°	1172.6	1041.0	891.8	736.9	596.5	485.4	397.7	324.6	263.2	210.5	163.7
15°	1198.9	1067.3	918.2	760.3	614.1	497.1	403.5	330.4	269.0	213.5	166.7
12.5°	1219.3	1087.8	941.6	780.7	628.7	505.9	412.3	336.3	271.9	216.4	166.7
10°	1236.9	1108.2	959.1	798.3	640.4	514.6	418.1	339.2	274.9	219.3	169.6
7.5°	1248.6	1122.9	973.7	810.0	649.1	520.5	421.1	345.0	277.8	219.3	172.5
5°	1257.4	1131.6	982.5	818.7	655.0	529.3	426.9	348.0	280.7	222.2	172.5
2.5°	1266.1	1140.4	991.3	827.5	660.8	529.3	426.9	348.0	280.7	222.2	172.5
0°	1266.1	1140.4	991.3	827.5	660.8	529.3	426.9	348.0	280.7	222.2	172.5



REPORT NUMBER: P640067
 CATALOG NUMBER: IFLD-S-SA6A-AMB-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	0.0	0.0
85°	8.8	5.8	2.9	0.0
82.5°	11.7	8.8	2.9	0.0
80°	14.6	8.8	5.8	0.0
77.5°	17.5	11.7	5.8	0.0
75°	23.4	14.6	8.8	0.0
72.5°	26.3	17.5	8.8	0.0
70°	29.2	20.5	8.8	0.0
67.5°	35.1	23.4	11.7	0.0
65°	40.9	23.4	11.7	0.0
62.5°	43.9	26.3	14.6	0.0
60°	49.7	29.2	14.6	0.0
57.5°	55.6	32.2	14.6	0.0
55°	58.5	35.1	17.5	0.0
52.5°	64.3	38.0	17.5	0.0
50°	67.3	40.9	17.5	0.0
47.5°	70.2	43.9	20.5	0.0
45°	76.0	46.8	20.5	0.0
42.5°	81.9	49.7	20.5	0.0
40°	84.8	49.7	23.4	0.0
37.5°	87.7	52.6	23.4	0.0
35°	93.6	55.6	23.4	0.0
32.5°	96.5	58.5	23.4	0.0
30°	99.4	58.5	26.3	0.0
27.5°	102.3	61.4	26.3	0.0
25°	105.3	61.4	26.3	0.0
22.5°	108.2	64.3	26.3	0.0
20°	111.1	64.3	26.3	0.0
17.5°	114.0	67.3	29.2	0.0
15°	114.0	67.3	29.2	0.0
12.5°	117.0	67.3	29.2	0.0
10°	117.0	70.2	29.2	0.0
7.5°	119.9	70.2	29.2	0.0
5°	119.9	70.2	29.2	0.0
2.5°	119.9	70.2	29.2	0.0
0°	119.9	70.2	29.2	0.0

(END OF REPORT)