

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: P624499

Luminaire Tested: **IFLD-S-SA2E-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624499
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

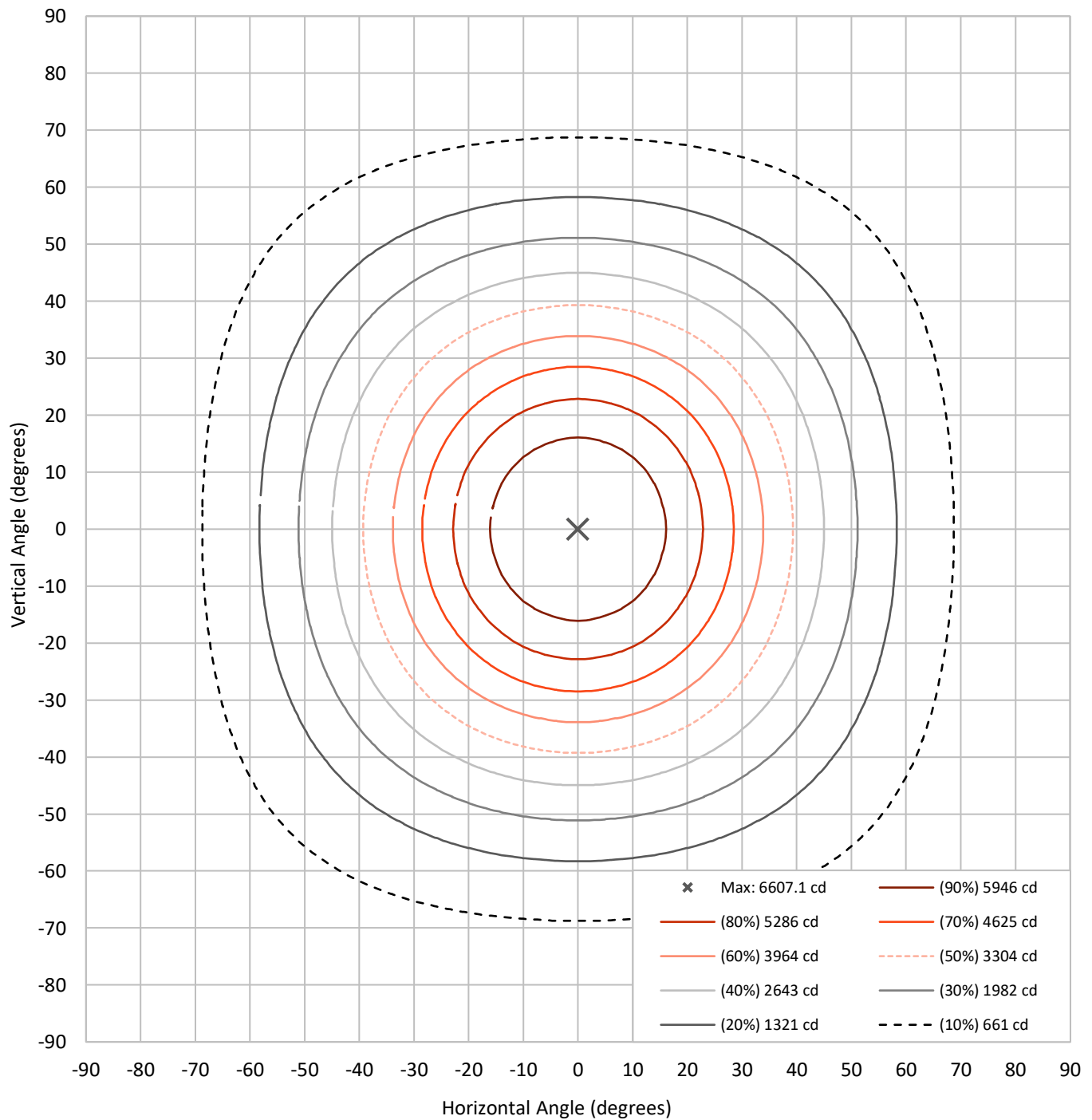
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11896.3 lumens	Max Intensity:	6607.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	76.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5147.4 lumens	Field Lumens:	8428.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	156.2		
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: P624499

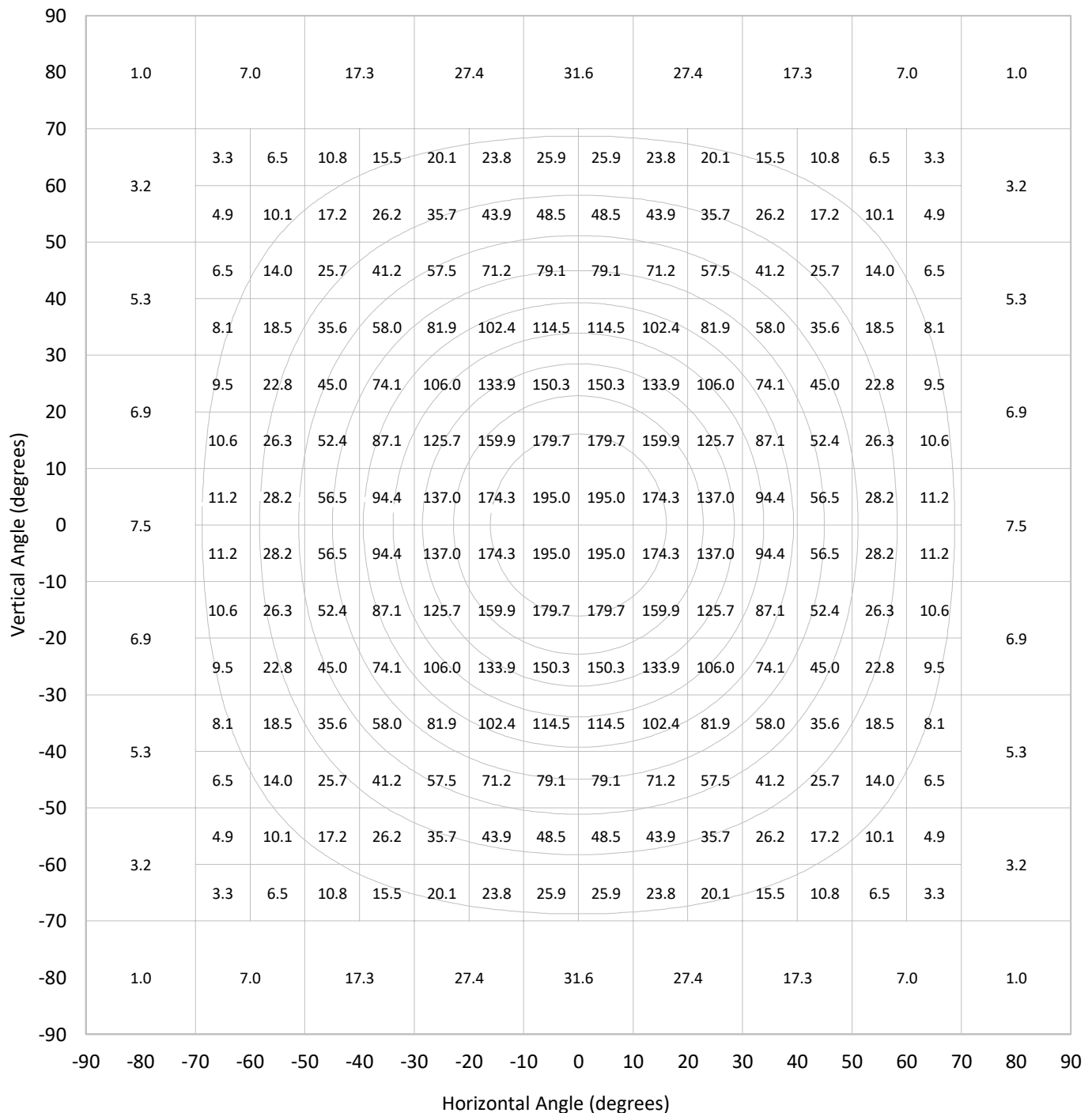
CATALOG NUMBER: IFLD-S-SA2E-927-U-77

Iso-Candela Plot



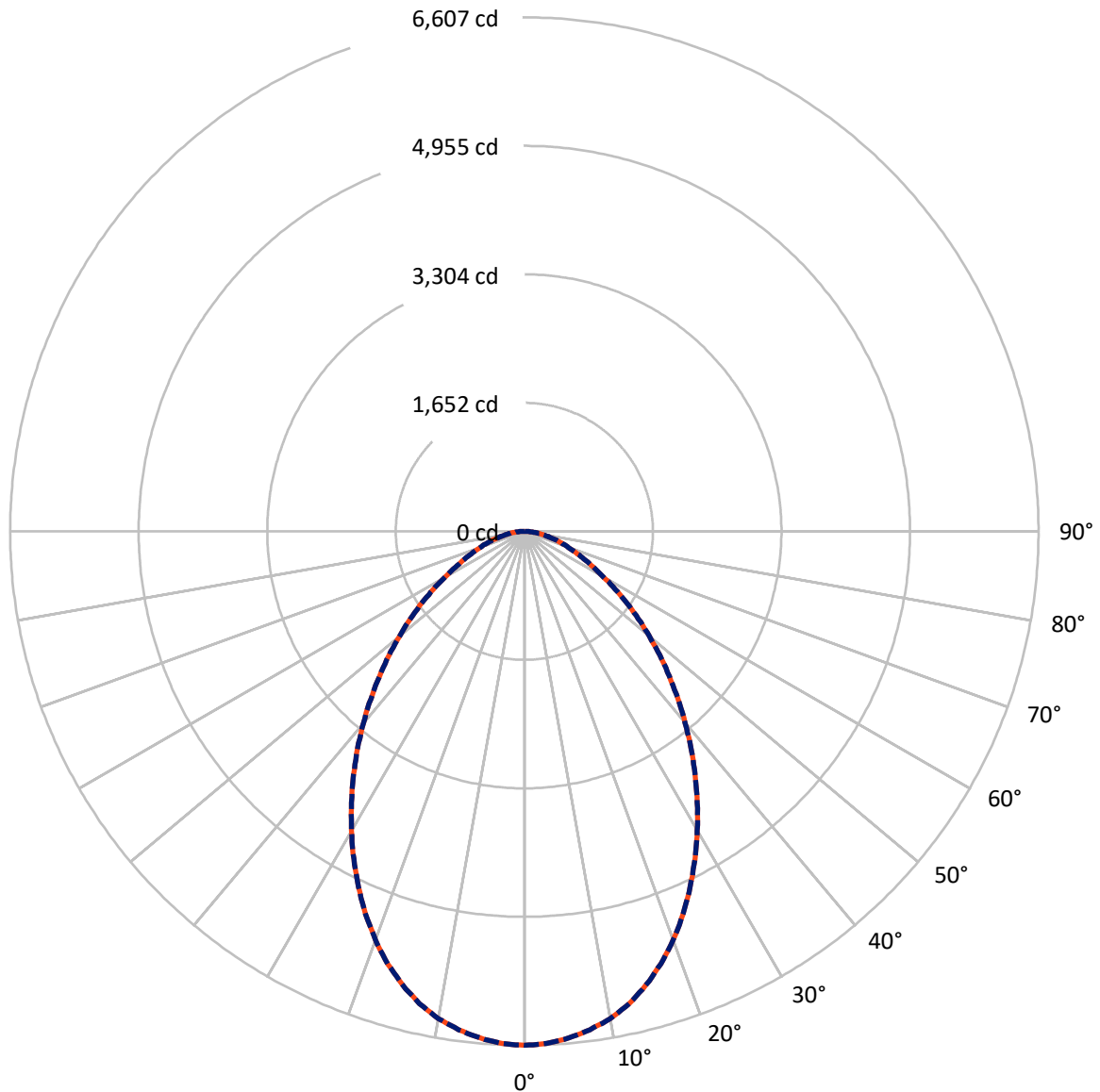
REPORT NUMBER: P624499
CATALOG NUMBER: IFLD-S-SA2E-927-U-77

Lumen Table



REPORT NUMBER: P624499
CATALOG NUMBER: IFLD-S-SA2E-927-U-77

Luminous Intensity Polar Plot

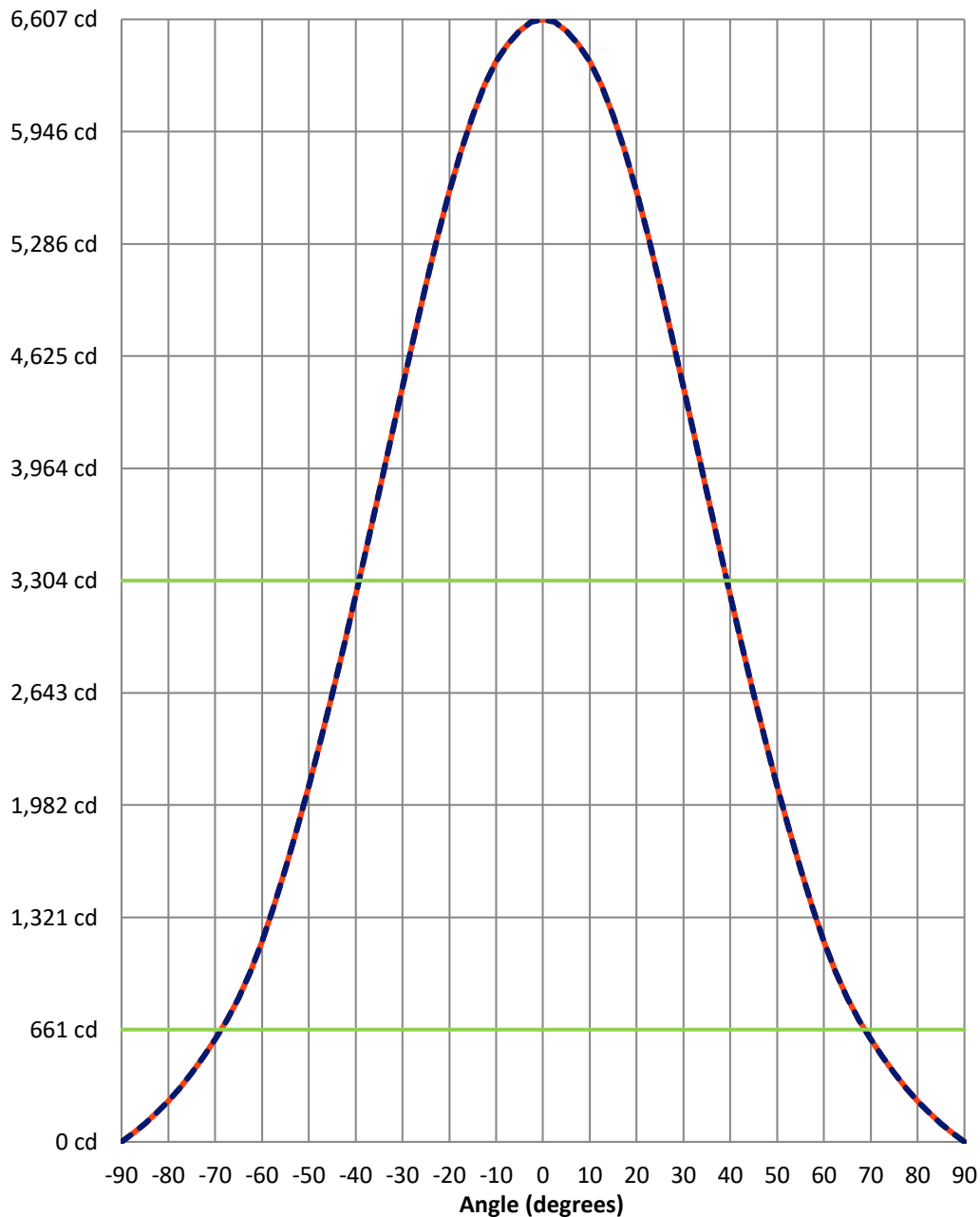


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624499

CATALOG NUMBER: IFLD-S-SA2E-927-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 5147.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 8428.7
Efficiency: 70.9%

Spill:

Lumens: 3467.6
Efficiency: 29.1%

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

REPORT NUMBER: P624499

CATALOG NUMBER: IFLD-S-SA2E-927-U-77

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°	50.9	50.9	50.9	50.9	50.9	50.9	50.9	48.4	48.4	47.1	45.9
85°	106.7	106.7	106.7	106.7	106.7	104.2	102.9	101.7	100.5	98.0	96.7
82.5°	171.2	171.2	171.2	171.2	168.7	166.2	165.0	162.5	160.0	156.3	152.6
80°	239.4	239.4	239.4	239.4	235.7	233.2	229.5	227.0	223.3	218.3	213.3
77.5°	317.5	317.5	317.5	313.8	311.3	307.6	303.9	298.9	294.0	287.8	280.3
75°	405.6	405.6	405.6	400.6	396.9	393.2	387.0	380.8	373.3	364.7	354.7
72.5°	501.1	501.1	501.1	494.9	491.2	485.0	477.5	468.8	460.2	449.0	436.6
70°	604.0	604.0	604.0	596.6	590.4	584.2	574.3	564.3	551.9	539.5	524.7
67.5°	715.7	715.7	715.7	707.0	699.5	690.9	679.7	667.3	652.4	635.0	617.7
65°	845.9	845.9	840.9	833.5	824.8	812.4	798.8	781.4	762.8	740.5	716.9
62.5°	999.7	999.7	992.3	983.6	972.4	956.3	937.7	915.4	889.3	860.8	832.3
60°	1178.3	1178.3	1169.6	1158.5	1142.3	1122.5	1097.7	1069.1	1036.9	1000.9	966.2
57.5°	1384.2	1384.2	1373.0	1358.1	1338.3	1313.5	1282.5	1246.5	1205.6	1160.9	1117.5
55°	1607.4	1607.4	1593.8	1576.4	1552.9	1523.1	1485.9	1443.7	1394.1	1343.3	1287.4
52.5°	1844.3	1844.3	1828.2	1808.4	1781.1	1746.4	1704.2	1654.6	1597.5	1538.0	1472.3
50°	2093.6	2093.6	2075.0	2052.7	2021.7	1980.8	1932.4	1875.4	1812.1	1742.6	1667.0
47.5°	2360.3	2360.3	2339.2	2313.2	2276.0	2228.8	2171.8	2106.1	2034.1	1956.0	1870.4
45°	2634.4	2634.4	2610.9	2581.1	2540.2	2486.8	2423.6	2360.3	2268.5	2178.0	2078.8
42.5°	2919.7	2919.7	2892.4	2858.9	2811.8	2753.5	2681.6	2599.7	2509.2	2407.4	2299.5
40°	3216.1	3216.1	3185.1	3146.7	3094.6	3027.6	2947.0	2855.2	2753.5	2640.6	2521.6
37.5°	3518.8	3518.8	3484.0	3441.9	3383.6	3309.2	3218.6	3116.9	3002.8	2877.5	2746.1
35°	3823.9	3823.9	3785.4	3739.5	3675.0	3593.2	3495.2	3382.3	3255.8	3119.4	2971.8
32.5°	4135.2	4135.2	4093.0	4040.9	3967.8	3877.2	3769.3	3646.5	3518.8	3360.0	3198.8
30°	4442.8	4442.8	4396.9	4339.9	4261.7	4162.5	4044.7	3909.5	3759.4	3596.9	3423.3
27.5°	4745.4	4733.0	4694.6	4633.8	4548.2	4442.8	4315.0	4168.7	4006.2	3827.6	3641.6
25°	5043.1	5029.5	4987.3	4920.3	4828.5	4713.2	4575.5	4419.2	4244.4	4055.8	3852.4
22.5°	5328.4	5313.5	5268.9	5196.9	5098.9	4973.7	4826.1	4658.6	4472.6	4270.4	4055.8
20°	5592.6	5576.4	5530.6	5454.9	5353.2	5220.5	5064.2	4884.4	4685.9	4472.6	4244.4
17.5°	5830.7	5814.6	5766.2	5688.1	5592.6	5445.0	5283.7	5094.0	4884.4	4658.6	4419.2
15°	6040.3	6023.0	5973.3	5895.2	5786.1	5647.1	5477.2	5283.7	5064.2	4826.1	4575.5
12.5°	6218.9	6201.6	6150.7	6072.6	5959.7	5820.8	5647.1	5445.0	5220.5	4973.7	4713.2
10°	6360.3	6343.0	6294.6	6220.2	6103.6	5959.7	5786.1	5592.6	5353.2	5098.9	4828.5
7.5°	6462.0	6445.9	6401.3	6326.8	6220.2	6072.6	5895.2	5688.1	5454.9	5196.9	4920.3
5°	6538.9	6520.3	6475.7	6401.3	6294.6	6150.7	5973.3	5766.2	5530.6	5268.9	4987.3
2.5°	6592.3	6569.9	6520.3	6445.9	6343.0	6201.6	6023.0	5814.6	5576.4	5313.5	5029.5
0°	6607.1	6592.3	6538.9	6462.0	6360.3	6218.9	6040.3	5830.7	5592.6	5328.4	5043.1

REPORT NUMBER: P624499

CATALOG NUMBER: IFLD-S-SA2E-927-U-77

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°	44.7	44.7	43.4	42.2	40.9	38.4	37.2	36.0	34.7	32.2	31.0
85°	94.3	91.8	89.3	86.8	83.1	80.6	76.9	74.4	70.7	67.0	63.3
82.5°	148.8	145.1	140.2	136.4	131.5	125.3	120.3	114.1	107.9	102.9	96.7
80°	208.4	202.2	196.0	189.8	182.3	174.9	167.4	160.0	151.3	142.6	134.0
77.5°	272.9	264.2	255.5	245.6	236.9	227.0	217.1	207.1	196.0	184.8	173.6
75°	344.8	333.6	321.2	308.8	297.7	284.0	270.4	256.7	241.9	228.2	213.3
72.5°	422.9	409.3	394.4	379.5	363.4	346.0	328.7	310.1	292.7	275.3	256.7
70°	507.3	491.2	472.6	454.0	434.1	413.0	391.9	369.6	347.3	325.0	302.6
67.5°	597.8	578.0	555.7	533.3	508.5	483.7	458.9	432.9	405.6	378.3	352.2
65°	694.6	669.8	643.7	615.2	586.7	558.1	528.4	497.4	466.4	434.1	405.6
62.5°	802.5	771.5	738.0	703.3	671.0	636.3	604.0	565.6	528.4	492.4	456.4
60°	927.8	886.8	845.9	802.5	761.6	716.9	677.2	635.0	592.9	551.9	509.8
57.5°	1067.9	1015.8	966.2	914.1	859.5	809.9	759.1	708.2	661.1	612.7	566.8
55°	1226.7	1163.4	1101.4	1036.9	973.6	911.6	847.1	790.1	731.8	677.2	623.9
52.5°	1400.3	1328.4	1251.5	1178.3	1097.7	1020.8	948.8	876.9	808.7	742.9	682.2
50°	1586.4	1502.0	1414.0	1324.7	1232.9	1142.3	1055.5	971.2	891.8	814.9	742.9
47.5°	1779.8	1684.3	1583.9	1482.2	1384.2	1273.8	1169.6	1074.1	978.6	891.8	808.7
45°	1978.3	1870.4	1760.0	1644.7	1529.3	1410.2	1294.9	1178.3	1074.1	971.2	876.9
42.5°	2183.0	2061.4	1938.6	1810.9	1683.1	1552.9	1422.6	1294.9	1169.6	1055.5	948.8
40°	2393.8	2259.9	2119.7	1980.8	1844.3	1695.5	1552.9	1410.2	1273.8	1142.3	1020.8
37.5°	2604.7	2458.3	2307.0	2150.7	1994.4	1844.3	1683.1	1529.3	1384.2	1232.9	1097.7
35°	2816.8	2655.5	2491.8	2321.9	2150.7	1980.8	1810.9	1644.7	1482.2	1324.7	1178.3
32.5°	3030.1	2854.0	2672.9	2491.8	2307.0	2119.7	1938.6	1760.0	1583.9	1414.0	1251.5
30°	3239.7	3048.7	2854.0	2655.5	2458.3	2259.9	2061.4	1870.4	1684.3	1502.0	1328.4
27.5°	3444.3	3239.7	3030.1	2816.8	2604.7	2393.8	2183.0	1978.3	1779.8	1586.4	1400.3
25°	3641.6	3423.3	3198.8	2971.8	2746.1	2521.6	2299.5	2078.8	1870.4	1667.0	1472.3
22.5°	3827.6	3596.9	3360.0	3119.4	2877.5	2640.6	2407.4	2178.0	1956.0	1742.6	1538.0
20°	4006.2	3759.4	3518.8	3255.8	3002.8	2753.5	2509.2	2268.5	2034.1	1812.1	1597.5
17.5°	4168.7	3909.5	3646.5	3382.3	3116.9	2855.2	2599.7	2360.3	2106.1	1875.4	1654.6
15°	4315.0	4044.7	3769.3	3495.2	3218.6	2947.0	2681.6	2423.6	2171.8	1932.4	1704.2
12.5°	4442.8	4162.5	3877.2	3593.2	3309.2	3027.6	2753.5	2486.8	2228.8	1980.8	1746.4
10°	4548.2	4261.7	3967.8	3675.0	3383.6	3094.6	2811.8	2540.2	2276.0	2021.7	1781.1
7.5°	4633.8	4339.9	4040.9	3739.5	3441.9	3146.7	2858.9	2581.1	2313.2	2052.7	1808.4
5°	4694.6	4396.9	4093.0	3785.4	3484.0	3185.1	2892.4	2610.9	2339.2	2075.0	1828.2
2.5°	4733.0	4442.8	4135.2	3823.9	3518.8	3216.1	2919.7	2634.4	2360.3	2093.6	1844.3
0°	4745.4	4442.8	4135.2	3823.9	3518.8	3216.1	2919.7	2634.4	2360.3	2093.6	1844.3

REPORT NUMBER: P624499

CATALOG NUMBER: IFLD-S-SA2E-927-U-77

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°	29.8	27.3	24.8	23.6	21.1	19.8	17.4	14.9	13.6	11.2	8.7
85°	59.5	54.6	50.9	47.1	43.4	38.4	34.7	31.0	26.0	22.3	17.4
82.5°	90.5	84.3	78.1	71.9	65.7	59.5	52.1	45.9	39.7	33.5	26.0
80°	125.3	115.3	106.7	98.0	89.3	80.6	70.7	62.0	52.1	43.4	34.7
77.5°	161.2	150.1	137.7	125.3	112.9	101.7	89.3	78.1	67.0	54.6	43.4
75°	199.7	184.8	171.2	155.0	140.2	124.0	109.1	94.3	80.6	67.0	52.1
72.5°	239.4	220.8	202.2	184.8	166.2	147.6	130.2	111.6	94.3	78.1	62.0
70°	280.3	258.0	235.7	214.6	193.5	171.2	151.3	130.2	109.1	89.3	70.7
67.5°	323.7	297.7	271.6	244.3	220.8	196.0	171.2	147.6	124.0	101.7	80.6
65°	370.9	339.8	307.6	279.1	248.1	220.8	193.5	166.2	140.2	112.9	89.3
62.5°	419.2	383.3	347.3	311.3	279.1	244.3	214.6	184.8	155.0	125.3	98.0
60°	468.8	427.9	387.0	347.3	307.6	271.6	235.7	202.2	171.2	137.7	106.7
57.5°	519.7	473.8	427.9	383.3	339.8	297.7	258.0	220.8	184.8	150.1	115.3
55°	571.8	519.7	468.8	419.2	370.9	323.7	280.3	239.4	199.7	161.2	125.3
52.5°	623.9	566.8	509.8	456.4	405.6	352.2	302.6	256.7	213.3	173.6	134.0
50°	677.2	612.7	551.9	492.4	434.1	378.3	325.0	275.3	228.2	184.8	142.6
47.5°	731.8	661.1	592.9	528.4	466.4	405.6	347.3	292.7	241.9	196.0	151.3
45°	790.1	708.2	635.0	565.6	497.4	432.9	369.6	310.1	256.7	207.1	160.0
42.5°	847.1	759.1	677.2	604.0	528.4	458.9	391.9	328.7	270.4	217.1	167.4
40°	911.6	809.9	716.9	636.3	558.1	483.7	413.0	346.0	284.0	227.0	174.9
37.5°	973.6	859.5	761.6	671.0	586.7	508.5	434.1	363.4	297.7	236.9	182.3
35°	1036.9	914.1	802.5	703.3	615.2	533.3	454.0	379.5	308.8	245.6	189.8
32.5°	1101.4	966.2	845.9	738.0	643.7	555.7	472.6	394.4	321.2	255.5	196.0
30°	1163.4	1015.8	886.8	771.5	669.8	578.0	491.2	409.3	333.6	264.2	202.2
27.5°	1226.7	1067.9	927.8	802.5	694.6	597.8	507.3	422.9	344.8	272.9	208.4
25°	1287.4	1117.5	966.2	832.3	716.9	617.7	524.7	436.6	354.7	280.3	213.3
22.5°	1343.3	1160.9	1000.9	860.8	740.5	635.0	539.5	449.0	364.7	287.8	218.3
20°	1394.1	1205.6	1036.9	889.3	762.8	652.4	551.9	460.2	373.3	294.0	223.3
17.5°	1443.7	1246.5	1069.1	915.4	781.4	667.3	564.3	468.8	380.8	298.9	227.0
15°	1485.9	1282.5	1097.7	937.7	798.8	679.7	574.3	477.5	387.0	303.9	229.5
12.5°	1523.1	1313.5	1122.5	956.3	812.4	690.9	584.2	485.0	393.2	307.6	233.2
10°	1552.9	1338.3	1142.3	972.4	824.8	699.5	590.4	491.2	396.9	311.3	235.7
7.5°	1576.4	1358.1	1158.5	983.6	833.5	707.0	596.6	494.9	400.6	313.8	239.4
5°	1593.8	1373.0	1169.6	992.3	840.9	715.7	604.0	501.1	405.6	317.5	239.4
2.5°	1607.4	1384.2	1178.3	999.7	845.9	715.7	604.0	501.1	405.6	317.5	239.4
0°	1607.4	1384.2	1178.3	999.7	845.9	715.7	604.0	501.1	405.6	317.5	239.4

REPORT NUMBER: P624499

CATALOG NUMBER: IFLD-S-SA2E-927-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.2	5.0	2.5	0.0
85°	13.6	8.7	5.0	0.0
82.5°	19.8	13.6	6.2	0.0
80°	26.0	17.4	8.7	0.0
77.5°	33.5	22.3	11.2	0.0
75°	39.7	26.0	13.6	0.0
72.5°	45.9	31.0	14.9	0.0
70°	52.1	34.7	17.4	0.0
67.5°	59.5	38.4	19.8	0.0
65°	65.7	43.4	21.1	0.0
62.5°	71.9	47.1	23.6	0.0
60°	78.1	50.9	24.8	0.0
57.5°	84.3	54.6	27.3	0.0
55°	90.5	59.5	29.8	0.0
52.5°	96.7	63.3	31.0	0.0
50°	102.9	67.0	32.2	0.0
47.5°	107.9	70.7	34.7	0.0
45°	114.1	74.4	36.0	0.0
42.5°	120.3	76.9	37.2	0.0
40°	125.3	80.6	38.4	0.0
37.5°	131.5	83.1	40.9	0.0
35°	136.4	86.8	42.2	0.0
32.5°	140.2	89.3	43.4	0.0
30°	145.1	91.8	44.7	0.0
27.5°	148.8	94.3	44.7	0.0
25°	152.6	96.7	45.9	0.0
22.5°	156.3	98.0	47.1	0.0
20°	160.0	100.5	48.4	0.0
17.5°	162.5	101.7	48.4	0.0
15°	165.0	102.9	50.9	0.0
12.5°	166.2	104.2	50.9	0.0
10°	168.7	106.7	50.9	0.0
7.5°	171.2	106.7	50.9	0.0
5°	171.2	106.7	50.9	0.0
2.5°	171.2	106.7	50.9	0.0
0°	171.2	106.7	50.9	0.0

(END OF REPORT)