

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: P623816

Luminaire Tested: **IFLD-S-SA3A-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623816
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

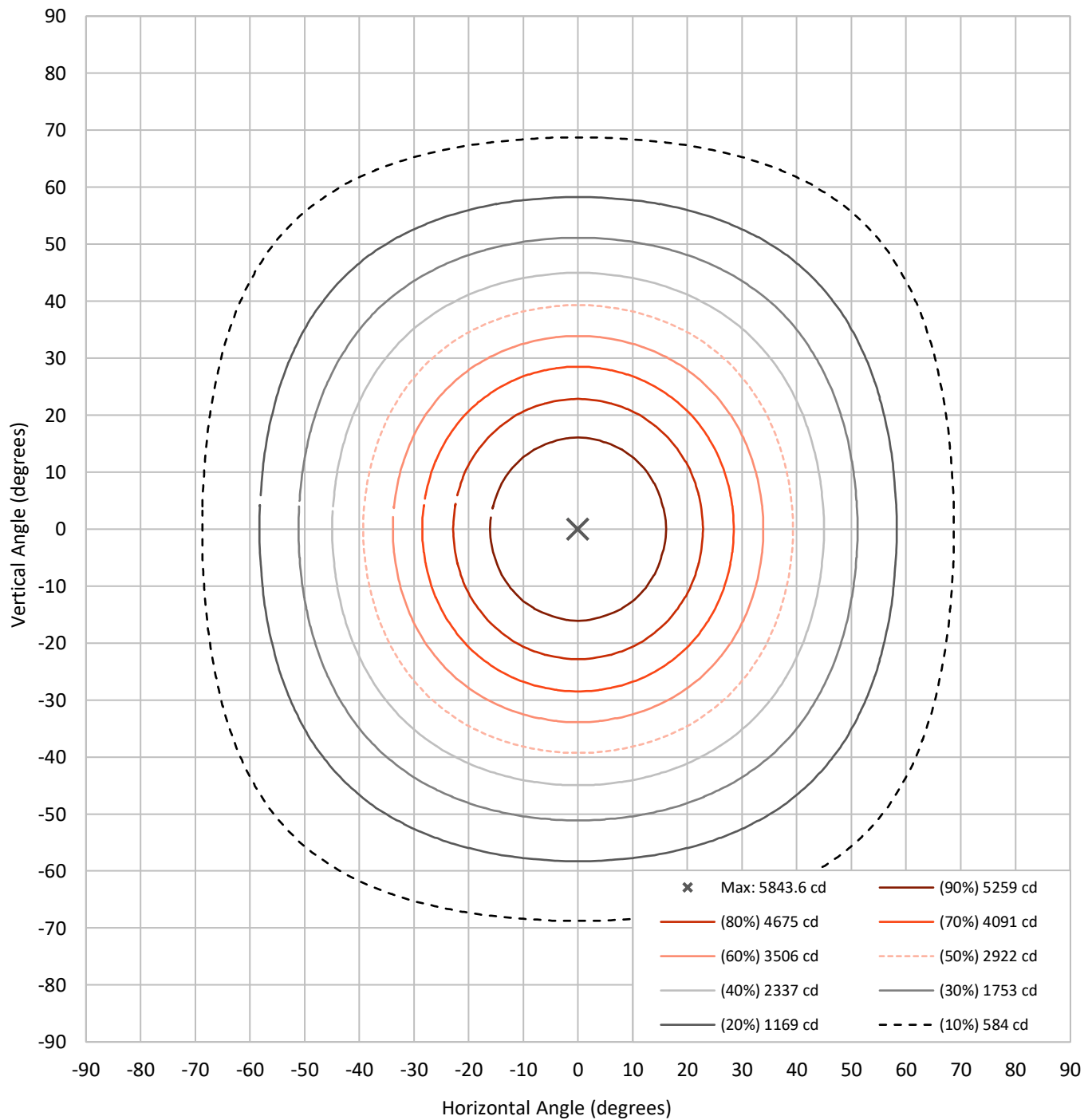
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10521.6 lumens	Max Intensity:	5843.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	111.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	4552.6 lumens	Field Lumens:	7454.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	94.8		
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		



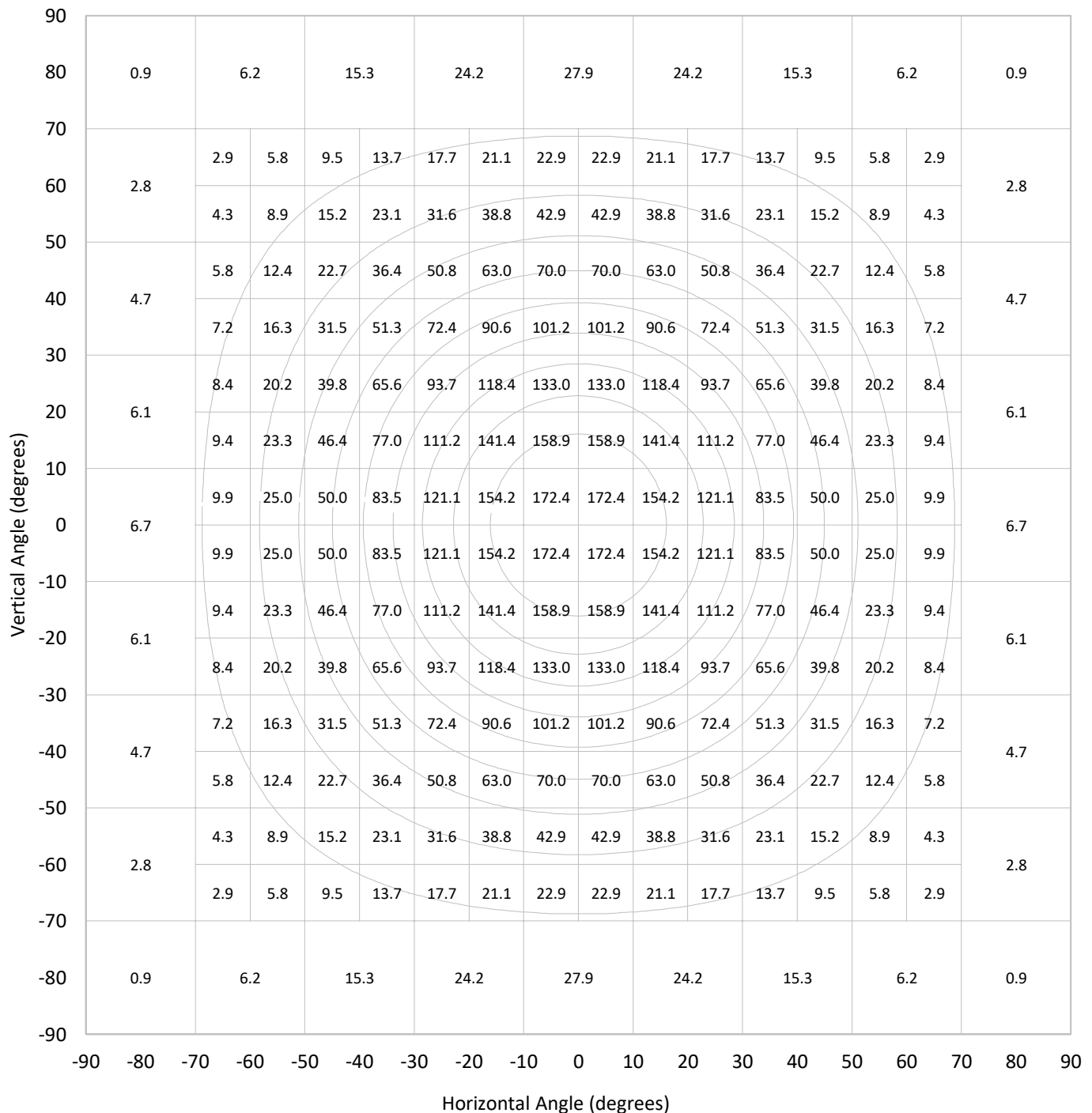
REPORT NUMBER: P623816
CATALOG NUMBER: IFLD-S-SA3A-722-U-77

Iso-Candela Plot



REPORT NUMBER: P623816
CATALOG NUMBER: IFLD-S-SA3A-722-U-77

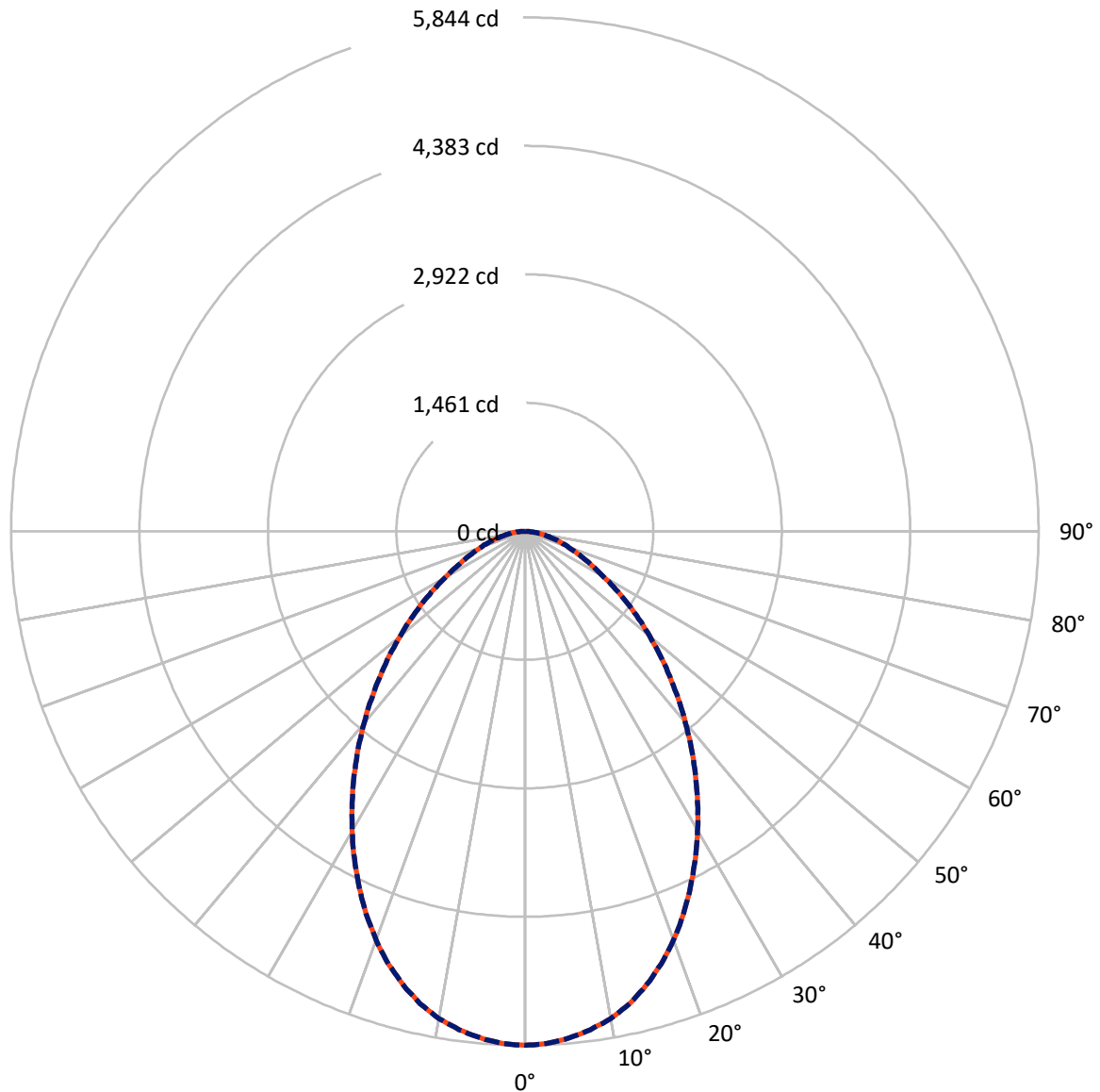
Lumen Table



REPORT NUMBER: P623816

CATALOG NUMBER: IFLD-S-SA3A-722-U-77

Luminous Intensity Polar Plot

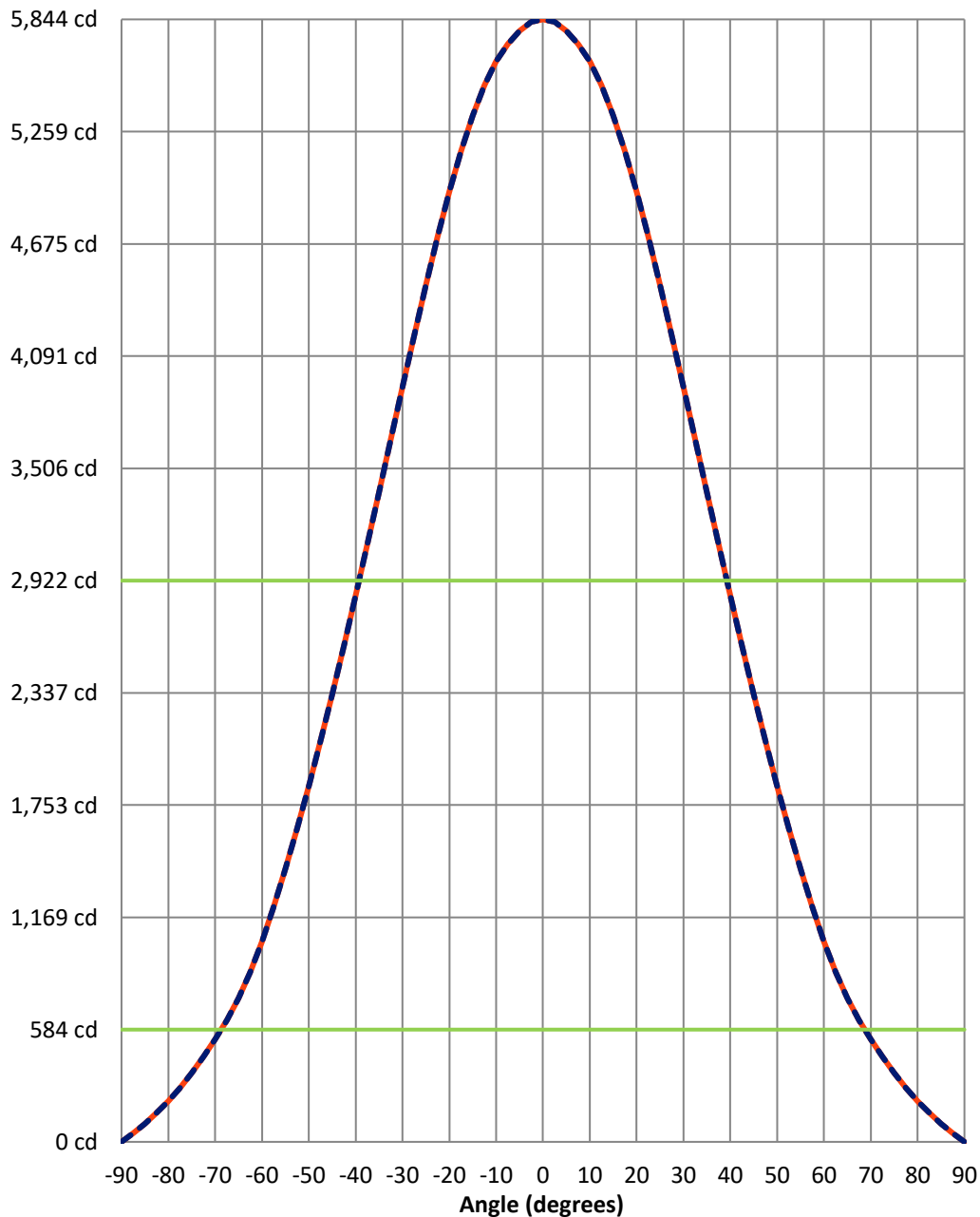


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623816

CATALOG NUMBER: IFLD-S-SA3A-722-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 4552.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 7454.7
Efficiency: 70.9%

Spill:

Lumens: 3066.9
Efficiency: 29.1%

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

REPORT NUMBER: P623816

CATALOG NUMBER: IFLD-S-SA3A-722-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°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	42.8	42.8	41.7	40.6
85°	94.3	94.3	94.3	94.3	94.3	92.1	91.0	90.0	88.9	86.7	85.6
82.5°	151.4	151.4	151.4	151.4	149.2	147.0	145.9	143.7	141.5	138.2	134.9
80°	211.7	211.7	211.7	211.7	208.4	206.2	202.9	200.7	197.5	193.1	188.7
77.5°	280.8	280.8	280.8	277.5	275.3	272.1	268.8	264.4	260.0	254.5	247.9
75°	358.7	358.7	358.7	354.3	351.0	347.7	342.3	336.8	330.2	322.5	313.7
72.5°	443.2	443.2	443.2	437.7	434.4	428.9	422.3	414.7	407.0	397.1	386.1
70°	534.2	534.2	534.2	527.6	522.2	516.7	507.9	499.1	488.2	477.2	464.0
67.5°	633.0	633.0	633.0	625.3	618.7	611.0	601.1	590.2	577.0	561.7	546.3
65°	748.1	748.1	743.8	737.2	729.5	718.5	706.5	691.1	674.6	654.9	634.1
62.5°	884.2	884.2	877.6	869.9	860.0	845.8	829.3	809.6	786.5	761.3	736.1
60°	1042.1	1042.1	1034.5	1024.6	1010.3	992.8	970.8	945.6	917.1	885.3	854.5
57.5°	1224.2	1224.2	1214.4	1201.2	1183.6	1161.7	1134.3	1102.5	1066.3	1026.8	988.4
55°	1421.7	1421.7	1409.6	1394.3	1373.4	1347.1	1314.2	1276.9	1233.0	1188.0	1138.7
52.5°	1631.2	1631.2	1617.0	1599.4	1575.3	1544.5	1507.3	1463.4	1412.9	1360.3	1302.1
50°	1851.7	1851.7	1835.2	1815.5	1788.1	1751.9	1709.1	1658.6	1602.7	1541.3	1474.3
47.5°	2087.6	2087.6	2068.9	2045.9	2013.0	1971.3	1920.8	1862.7	1799.0	1729.9	1654.2
45°	2330.0	2330.0	2309.1	2282.8	2246.6	2199.4	2143.5	2087.6	2006.4	1926.3	1838.5
42.5°	2582.3	2582.3	2558.2	2528.5	2486.9	2435.3	2371.7	2299.3	2219.2	2129.2	2033.8
40°	2844.5	2844.5	2817.0	2783.0	2737.0	2677.7	2606.4	2525.3	2435.3	2335.5	2230.2
37.5°	3112.1	3112.1	3081.4	3044.1	2992.6	2926.7	2846.7	2756.7	2655.8	2545.0	2428.7
35°	3382.0	3382.0	3348.0	3307.4	3250.4	3178.0	3091.3	2991.5	2879.6	2758.9	2628.4
32.5°	3657.3	3657.3	3620.0	3574.0	3509.2	3429.2	3333.7	3225.1	3112.1	2971.7	2829.1
30°	3929.4	3929.4	3888.8	3838.3	3769.2	3681.5	3577.3	3457.7	3325.0	3181.2	3027.7
27.5°	4197.1	4186.1	4152.1	4098.3	4022.6	3929.4	3816.4	3687.0	3543.2	3385.3	3220.7
25°	4460.3	4448.3	4411.0	4351.7	4270.5	4168.5	4046.8	3908.5	3753.9	3587.1	3407.2
22.5°	4712.6	4699.5	4660.0	4596.4	4509.7	4398.9	4268.4	4120.3	3955.7	3776.9	3587.1
20°	4946.3	4932.0	4891.4	4824.5	4734.6	4617.2	4479.0	4319.9	4144.4	3955.7	3753.9
17.5°	5156.9	5142.6	5099.9	5030.8	4946.3	4815.7	4673.1	4505.3	4319.9	4120.3	3908.5
15°	5342.3	5326.9	5283.1	5214.0	5117.4	4994.6	4844.3	4673.1	4479.0	4268.4	4046.8
12.5°	5500.3	5484.9	5439.9	5370.8	5271.0	5148.1	4994.6	4815.7	4617.2	4398.9	4168.5
10°	5625.3	5610.0	5567.2	5501.4	5398.2	5271.0	5117.4	4946.3	4734.6	4509.7	4270.5
7.5°	5715.3	5701.0	5661.5	5595.7	5501.4	5370.8	5214.0	5030.8	4824.5	4596.4	4351.7
5°	5783.3	5766.8	5727.3	5661.5	5567.2	5439.9	5283.1	5099.9	4891.4	4660.0	4411.0
2.5°	5830.5	5810.7	5766.8	5701.0	5610.0	5484.9	5326.9	5142.6	4932.0	4699.5	4448.3
0°	5843.6	5830.5	5783.3	5715.3	5625.3	5500.3	5342.3	5156.9	4946.3	4712.6	4460.3

REPORT NUMBER: P623816

CATALOG NUMBER: IFLD-S-SA3A-722-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°	39.5	39.5	38.4	37.3	36.2	34.0	32.9	31.8	30.7	28.5	27.4
85°	83.4	81.2	79.0	76.8	73.5	71.3	68.0	65.8	62.5	59.2	55.9
82.5°	131.6	128.3	124.0	120.7	116.3	110.8	106.4	100.9	95.4	91.0	85.6
80°	184.3	178.8	173.3	167.8	161.3	154.7	148.1	141.5	133.8	126.2	118.5
77.5°	241.3	233.7	226.0	217.2	209.5	200.7	192.0	183.2	173.3	163.5	153.6
75°	305.0	295.1	284.1	273.1	263.3	251.2	239.1	227.1	213.9	201.8	188.7
72.5°	374.1	362.0	348.8	335.7	321.4	306.1	290.7	274.2	258.9	243.5	227.1
70°	448.7	434.4	417.9	401.5	383.9	365.3	346.6	326.9	307.2	287.4	267.7
67.5°	528.7	511.2	491.4	471.7	449.8	427.8	405.9	382.8	358.7	334.6	311.5
65°	614.3	592.4	569.3	544.1	518.9	493.6	467.3	439.9	412.5	383.9	358.7
62.5°	709.7	682.3	652.7	622.0	593.5	562.8	534.2	500.2	467.3	435.5	403.7
60°	820.5	784.3	748.1	709.7	673.5	634.1	599.0	561.7	524.4	488.2	450.9
57.5°	944.5	898.4	854.5	808.5	760.2	716.3	671.4	626.4	584.7	541.9	501.3
55°	1084.9	1029.0	974.1	917.1	861.1	806.3	749.2	698.8	647.2	599.0	551.8
52.5°	1238.5	1174.9	1106.9	1042.1	970.8	902.8	839.2	775.6	715.2	657.1	603.3
50°	1403.0	1328.4	1250.6	1171.6	1090.4	1010.3	933.5	858.9	788.7	720.7	657.1
47.5°	1574.2	1489.7	1400.8	1310.9	1224.2	1126.6	1034.5	950.0	865.5	788.7	715.2
45°	1749.7	1654.2	1556.6	1454.6	1352.6	1247.3	1145.2	1042.1	950.0	858.9	775.6
42.5°	1930.7	1823.2	1714.6	1601.6	1488.6	1373.4	1258.2	1145.2	1034.5	933.5	839.2
40°	2117.2	1998.7	1874.7	1751.9	1631.2	1499.6	1373.4	1247.3	1126.6	1010.3	902.8
37.5°	2303.7	2174.2	2040.4	1902.2	1763.9	1631.2	1488.6	1352.6	1224.2	1090.4	970.8
35°	2491.2	2348.6	2203.8	2053.5	1902.2	1751.9	1601.6	1454.6	1310.9	1171.6	1042.1
32.5°	2679.9	2524.2	2364.0	2203.8	2040.4	1874.7	1714.6	1556.6	1400.8	1250.6	1106.9
30°	2865.3	2696.4	2524.2	2348.6	2174.2	1998.7	1823.2	1654.2	1489.7	1328.4	1174.9
27.5°	3046.3	2865.3	2679.9	2491.2	2303.7	2117.2	1930.7	1749.7	1574.2	1403.0	1238.5
25°	3220.7	3027.7	2829.1	2628.4	2428.7	2230.2	2033.8	1838.5	1654.2	1474.3	1302.1
22.5°	3385.3	3181.2	2971.7	2758.9	2545.0	2335.5	2129.2	1926.3	1729.9	1541.3	1360.3
20°	3543.2	3325.0	3112.1	2879.6	2655.8	2435.3	2219.2	2006.4	1799.0	1602.7	1412.9
17.5°	3687.0	3457.7	3225.1	2991.5	2756.7	2525.3	2299.3	2087.6	1862.7	1658.6	1463.4
15°	3816.4	3577.3	3333.7	3091.3	2846.7	2606.4	2371.7	2143.5	1920.8	1709.1	1507.3
12.5°	3929.4	3681.5	3429.2	3178.0	2926.7	2677.7	2435.3	2199.4	1971.3	1751.9	1544.5
10°	4022.6	3769.2	3509.2	3250.4	2992.6	2737.0	2486.9	2246.6	2013.0	1788.1	1575.3
7.5°	4098.3	3838.3	3574.0	3307.4	3044.1	2783.0	2528.5	2282.8	2045.9	1815.5	1599.4
5°	4152.1	3888.8	3620.0	3348.0	3081.4	2817.0	2558.2	2309.1	2068.9	1835.2	1617.0
2.5°	4186.1	3929.4	3657.3	3382.0	3112.1	2844.5	2582.3	2330.0	2087.6	1851.7	1631.2
0°	4197.1	3929.4	3657.3	3382.0	3112.1	2844.5	2582.3	2330.0	2087.6	1851.7	1631.2

REPORT NUMBER: P623816

CATALOG NUMBER: IFLD-S-SA3A-722-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°	26.3	24.1	21.9	20.8	18.6	17.6	15.4	13.2	12.1	9.9	7.7
85°	52.7	48.3	45.0	41.7	38.4	34.0	30.7	27.4	23.0	19.7	15.4
82.5°	80.1	74.6	69.1	63.6	58.1	52.7	46.1	40.6	35.1	29.6	23.0
80°	110.8	102.0	94.3	86.7	79.0	71.3	62.5	54.8	46.1	38.4	30.7
77.5°	142.6	132.7	121.8	110.8	99.8	90.0	79.0	69.1	59.2	48.3	38.4
75°	176.6	163.5	151.4	137.1	124.0	109.7	96.5	83.4	71.3	59.2	46.1
72.5°	211.7	195.3	178.8	163.5	147.0	130.5	115.2	98.7	83.4	69.1	54.8
70°	247.9	228.2	208.4	189.8	171.1	151.4	133.8	115.2	96.5	79.0	62.5
67.5°	286.3	263.3	240.2	216.1	195.3	173.3	151.4	130.5	109.7	90.0	71.3
65°	328.0	300.6	272.1	246.8	219.4	195.3	171.1	147.0	124.0	99.8	79.0
62.5°	370.8	339.0	307.2	275.3	246.8	216.1	189.8	163.5	137.1	110.8	86.7
60°	414.7	378.5	342.3	307.2	272.1	240.2	208.4	178.8	151.4	121.8	94.3
57.5°	459.6	419.0	378.5	339.0	300.6	263.3	228.2	195.3	163.5	132.7	102.0
55°	505.7	459.6	414.7	370.8	328.0	286.3	247.9	211.7	176.6	142.6	110.8
52.5°	551.8	501.3	450.9	403.7	358.7	311.5	267.7	227.1	188.7	153.6	118.5
50°	599.0	541.9	488.2	435.5	383.9	334.6	287.4	243.5	201.8	163.5	126.2
47.5°	647.2	584.7	524.4	467.3	412.5	358.7	307.2	258.9	213.9	173.3	133.8
45°	698.8	626.4	561.7	500.2	439.9	382.8	326.9	274.2	227.1	183.2	141.5
42.5°	749.2	671.4	599.0	534.2	467.3	405.9	346.6	290.7	239.1	192.0	148.1
40°	806.3	716.3	634.1	562.8	493.6	427.8	365.3	306.1	251.2	200.7	154.7
37.5°	861.1	760.2	673.5	593.5	518.9	449.8	383.9	321.4	263.3	209.5	161.3
35°	917.1	808.5	709.7	622.0	544.1	471.7	401.5	335.7	273.1	217.2	167.8
32.5°	974.1	854.5	748.1	652.7	569.3	491.4	417.9	348.8	284.1	226.0	173.3
30°	1029.0	898.4	784.3	682.3	592.4	511.2	434.4	362.0	295.1	233.7	178.8
27.5°	1084.9	944.5	820.5	709.7	614.3	528.7	448.7	374.1	305.0	241.3	184.3
25°	1138.7	988.4	854.5	736.1	634.1	546.3	464.0	386.1	313.7	247.9	188.7
22.5°	1188.0	1026.8	885.3	761.3	654.9	561.7	477.2	397.1	322.5	254.5	193.1
20°	1233.0	1066.3	917.1	786.5	674.6	577.0	488.2	407.0	330.2	260.0	197.5
17.5°	1276.9	1102.5	945.6	809.6	691.1	590.2	499.1	414.7	336.8	264.4	200.7
15°	1314.2	1134.3	970.8	829.3	706.5	601.1	507.9	422.3	342.3	268.8	202.9
12.5°	1347.1	1161.7	992.8	845.8	718.5	611.0	516.7	428.9	347.7	272.1	206.2
10°	1373.4	1183.6	1010.3	860.0	729.5	618.7	522.2	434.4	351.0	275.3	208.4
7.5°	1394.3	1201.2	1024.6	869.9	737.2	625.3	527.6	437.7	354.3	277.5	211.7
5°	1409.6	1214.4	1034.5	877.6	743.8	633.0	534.2	443.2	358.7	280.8	211.7
2.5°	1421.7	1224.2	1042.1	884.2	748.1	633.0	534.2	443.2	358.7	280.8	211.7
0°	1421.7	1224.2	1042.1	884.2	748.1	633.0	534.2	443.2	358.7	280.8	211.7

REPORT NUMBER: P623816

CATALOG NUMBER: IFLD-S-SA3A-722-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.5	4.4	2.2	0.0
85°	12.1	7.7	4.4	0.0
82.5°	17.6	12.1	5.5	0.0
80°	23.0	15.4	7.7	0.0
77.5°	29.6	19.7	9.9	0.0
75°	35.1	23.0	12.1	0.0
72.5°	40.6	27.4	13.2	0.0
70°	46.1	30.7	15.4	0.0
67.5°	52.7	34.0	17.6	0.0
65°	58.1	38.4	18.6	0.0
62.5°	63.6	41.7	20.8	0.0
60°	69.1	45.0	21.9	0.0
57.5°	74.6	48.3	24.1	0.0
55°	80.1	52.7	26.3	0.0
52.5°	85.6	55.9	27.4	0.0
50°	91.0	59.2	28.5	0.0
47.5°	95.4	62.5	30.7	0.0
45°	100.9	65.8	31.8	0.0
42.5°	106.4	68.0	32.9	0.0
40°	110.8	71.3	34.0	0.0
37.5°	116.3	73.5	36.2	0.0
35°	120.7	76.8	37.3	0.0
32.5°	124.0	79.0	38.4	0.0
30°	128.3	81.2	39.5	0.0
27.5°	131.6	83.4	39.5	0.0
25°	134.9	85.6	40.6	0.0
22.5°	138.2	86.7	41.7	0.0
20°	141.5	88.9	42.8	0.0
17.5°	143.7	90.0	42.8	0.0
15°	145.9	91.0	45.0	0.0
12.5°	147.0	92.1	45.0	0.0
10°	149.2	94.3	45.0	0.0
7.5°	151.4	94.3	45.0	0.0
5°	151.4	94.3	45.0	0.0
2.5°	151.4	94.3	45.0	0.0
0°	151.4	94.3	45.0	0.0

(END OF REPORT)