

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: P624556

Luminaire Tested: **IFLD-S-SA2D-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624556
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

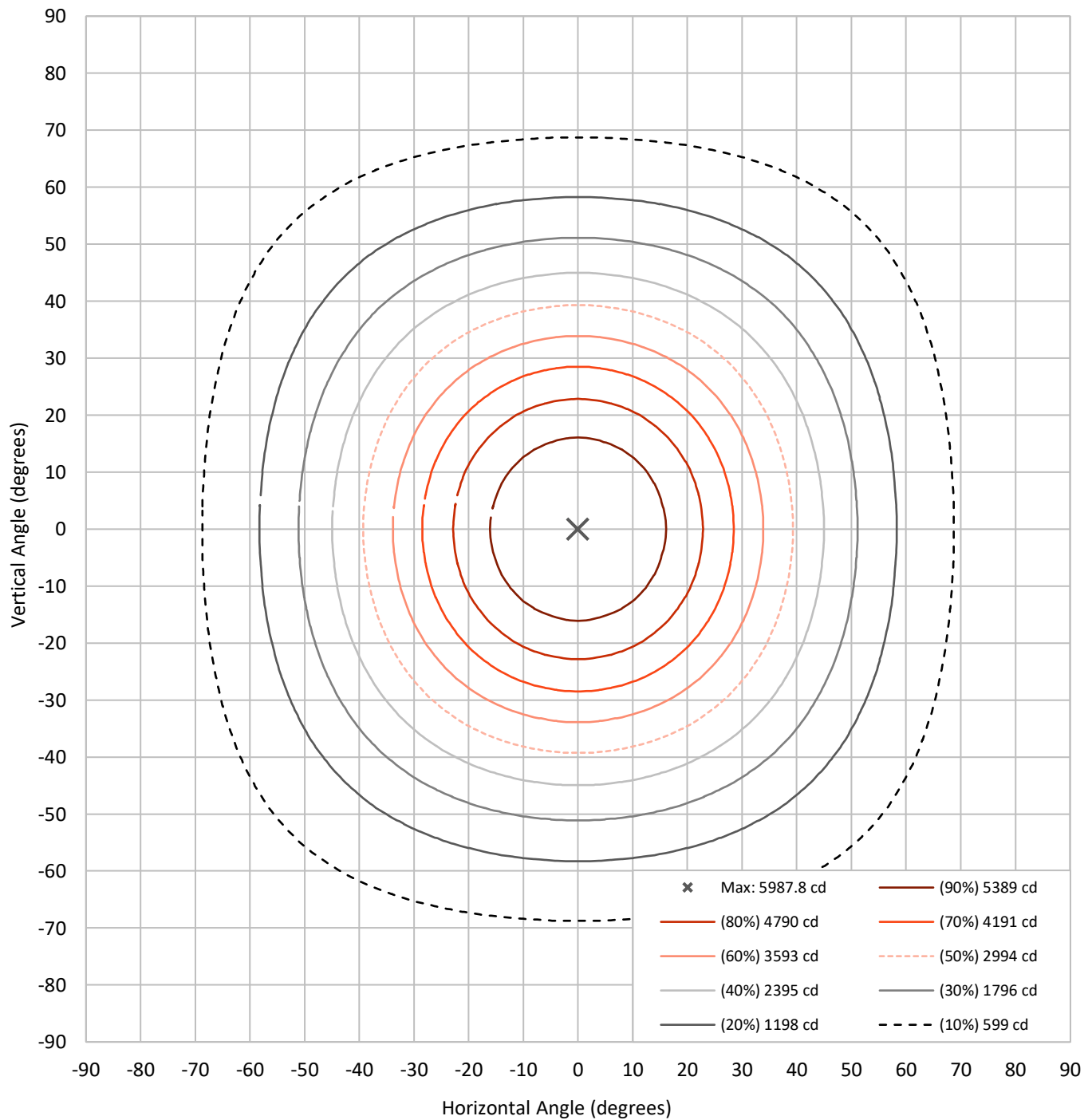
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10781.2 lumens	Max Intensity:	5987.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	87.0 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4664.9 lumens	Field Lumens:	7638.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	123.9		
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: P624556

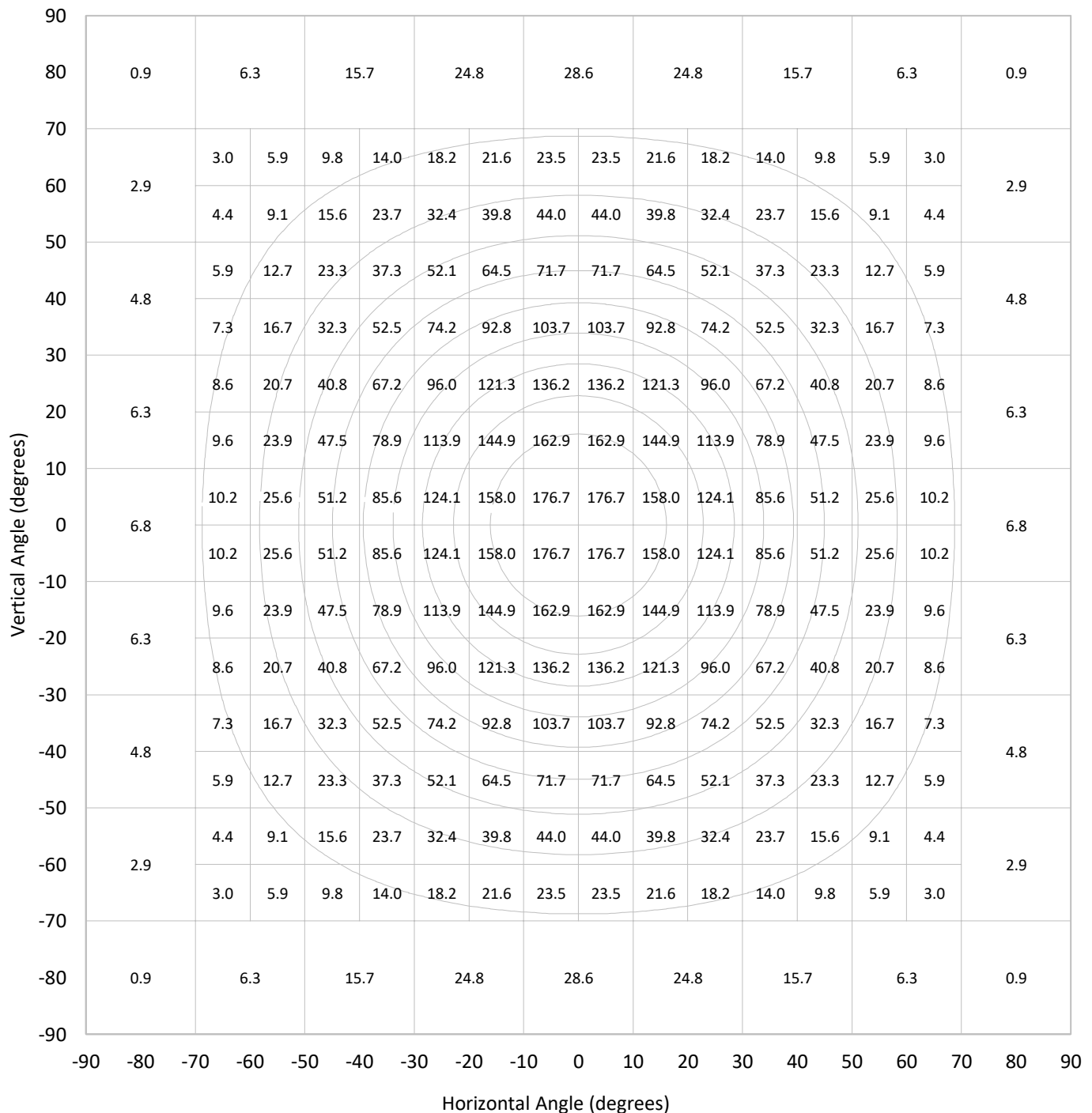
CATALOG NUMBER: IFLD-S-SA2D-935-U-77

Iso-Candela Plot



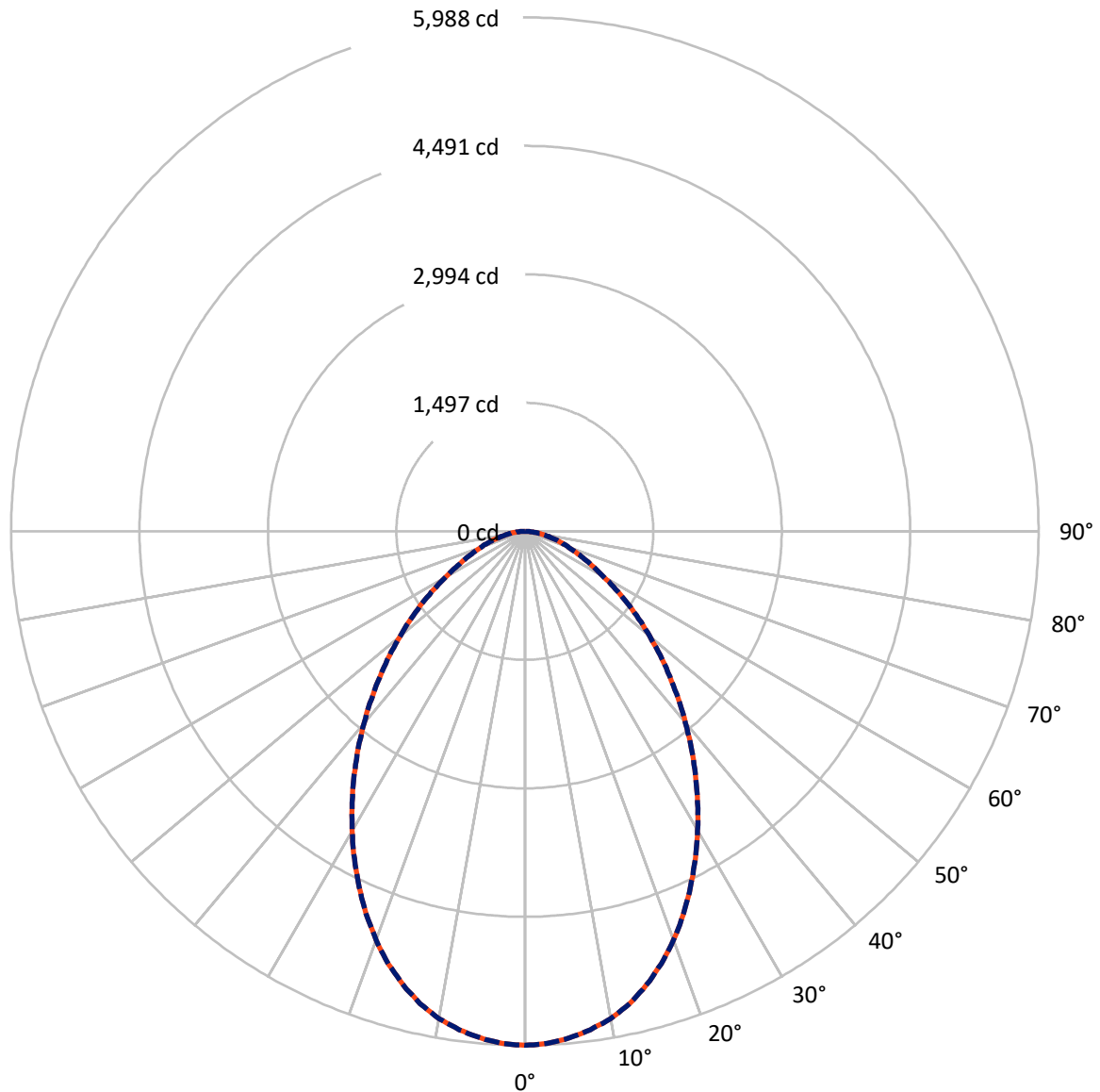
REPORT NUMBER: P624556
CATALOG NUMBER: IFLD-S-SA2D-935-U-77

Lumen Table



REPORT NUMBER: P624556
CATALOG NUMBER: IFLD-S-SA2D-935-U-77

Luminous Intensity Polar Plot

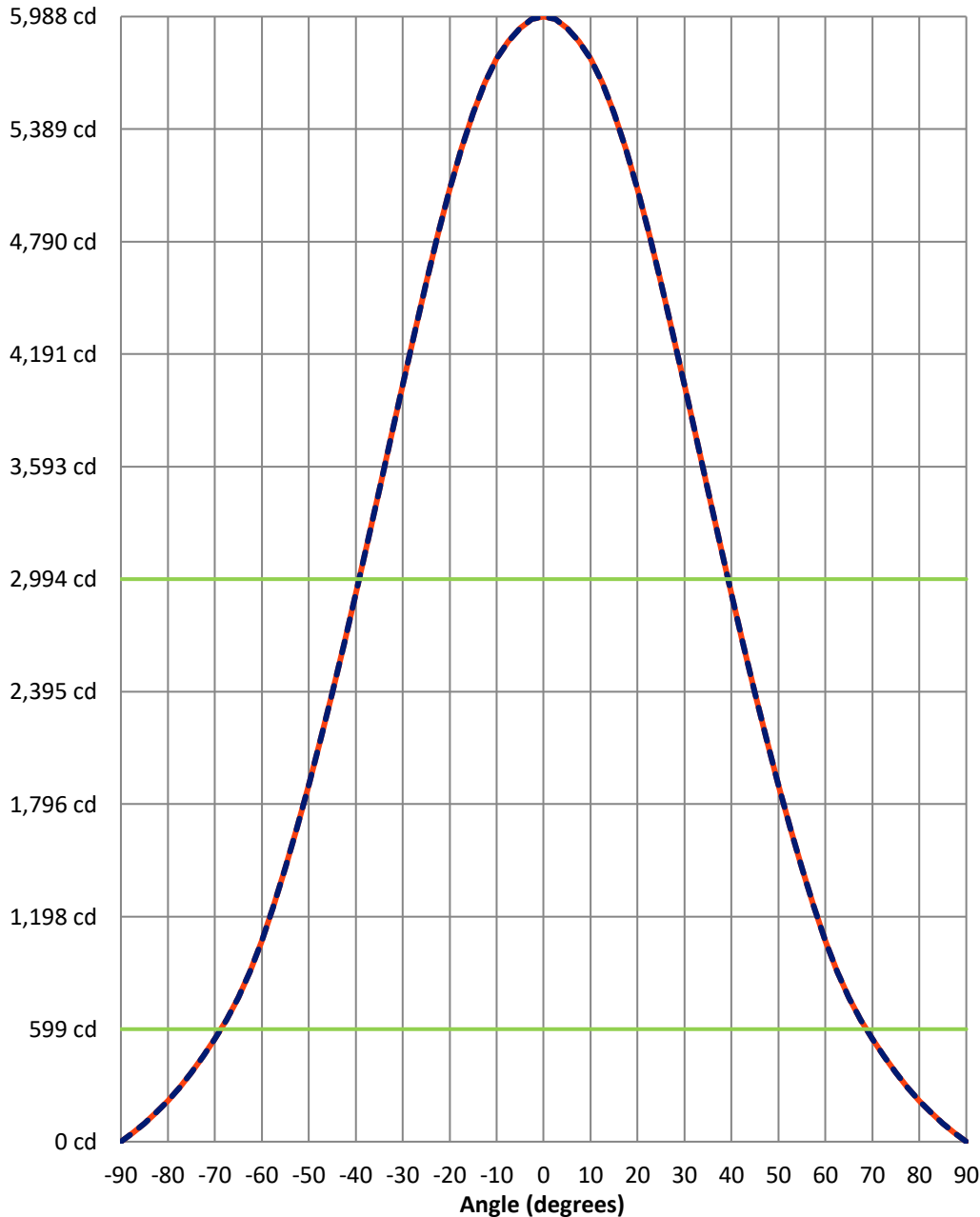


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



REPORT NUMBER: P624556
CATALOG NUMBER: IFLD-S-SA2D-935-U-77

Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 4664.9
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 7638.7
Efficiency: 70.9%

Spill:
Lumens: 3142.6
Efficiency: 29.1%

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

REPORT NUMBER: P624556

CATALOG NUMBER: IFLD-S-SA2D-935-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°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	43.8	43.8	42.7	41.6
85°	96.7	96.7	96.7	96.7	96.7	94.4	93.3	92.2	91.0	88.8	87.7
82.5°	155.1	155.1	155.1	155.1	152.9	150.6	149.5	147.3	145.0	141.6	138.3
80°	216.9	216.9	216.9	216.9	213.6	211.3	208.0	205.7	202.3	197.8	193.3
77.5°	287.8	287.8	287.8	284.4	282.1	278.8	275.4	270.9	266.4	260.8	254.0
75°	367.6	367.6	367.6	363.1	359.7	356.3	350.7	345.1	338.3	330.5	321.5
72.5°	454.1	454.1	454.1	448.5	445.1	439.5	432.8	424.9	417.0	406.9	395.7
70°	547.4	547.4	547.4	540.7	535.0	529.4	520.4	511.4	500.2	489.0	475.5
67.5°	648.6	648.6	648.6	640.7	634.0	626.1	616.0	604.7	591.3	575.5	559.8
65°	766.6	766.6	762.1	755.4	747.5	736.3	723.9	708.2	691.3	671.1	649.7
62.5°	906.0	906.0	899.2	891.4	881.3	866.6	849.8	829.6	805.9	780.1	754.2
60°	1067.9	1067.9	1060.0	1049.9	1035.3	1017.3	994.8	968.9	939.7	907.1	875.6
57.5°	1254.4	1254.4	1244.3	1230.8	1212.9	1190.4	1162.3	1129.7	1092.6	1052.1	1012.8
55°	1456.8	1456.8	1444.4	1428.7	1407.3	1380.3	1346.6	1308.4	1263.4	1217.4	1166.8
52.5°	1671.5	1671.5	1656.9	1638.9	1614.1	1582.7	1544.5	1499.5	1447.8	1393.8	1334.3
50°	1897.4	1897.4	1880.5	1860.3	1832.2	1795.1	1751.3	1699.6	1642.2	1579.3	1510.7
47.5°	2139.1	2139.1	2120.0	2096.4	2062.6	2019.9	1968.2	1908.6	1843.4	1772.6	1695.1
45°	2387.5	2387.5	2366.1	2339.2	2302.1	2253.7	2196.4	2139.1	2055.9	1973.8	1883.9
42.5°	2646.0	2646.0	2621.3	2590.9	2548.2	2495.4	2430.2	2356.0	2274.0	2181.8	2084.0
40°	2914.7	2914.7	2886.6	2851.7	2804.5	2743.8	2670.8	2587.6	2495.4	2393.1	2285.2
37.5°	3188.9	3188.9	3157.5	3119.3	3066.4	2999.0	2916.9	2824.7	2721.3	2607.8	2488.7
35°	3465.5	3465.5	3430.6	3389.0	3330.6	3256.4	3167.6	3065.3	2950.6	2827.0	2693.2
32.5°	3747.6	3747.6	3709.4	3662.2	3595.8	3513.8	3416.0	3304.7	3188.9	3045.1	2898.9
30°	4026.4	4026.4	3984.8	3933.1	3862.3	3772.3	3665.5	3543.0	3407.0	3259.8	3102.4
27.5°	4300.6	4289.4	4254.5	4199.5	4121.9	4026.4	3910.6	3777.9	3630.7	3468.8	3300.2
25°	4570.4	4558.0	4519.8	4459.1	4375.9	4271.4	4146.6	4005.0	3846.5	3675.7	3491.3
22.5°	4828.9	4815.4	4775.0	4709.8	4621.0	4507.5	4373.7	4221.9	4053.3	3870.1	3675.7
20°	5068.4	5053.7	5012.2	4943.6	4851.4	4731.1	4589.5	4426.5	4246.7	4053.3	3846.5
17.5°	5284.2	5269.6	5225.7	5154.9	5068.4	4934.6	4788.5	4616.5	4426.5	4221.9	4005.0
15°	5474.1	5458.4	5413.4	5342.6	5243.7	5117.8	4963.8	4788.5	4589.5	4373.7	4146.6
12.5°	5636.0	5620.3	5574.2	5503.4	5401.1	5275.2	5117.8	4934.6	4731.1	4507.5	4271.4
10°	5764.2	5748.4	5704.6	5637.1	5531.5	5401.1	5243.7	5068.4	4851.4	4621.0	4375.9
7.5°	5856.3	5841.7	5801.2	5733.8	5637.1	5503.4	5342.6	5154.9	4943.6	4709.8	4459.1
5°	5926.0	5909.2	5868.7	5801.2	5704.6	5574.2	5413.4	5225.7	5012.2	4775.0	4519.8
2.5°	5974.3	5954.1	5909.2	5841.7	5748.4	5620.3	5458.4	5269.6	5053.7	4815.4	4558.0
0°	5987.8	5974.3	5926.0	5856.3	5764.2	5636.0	5474.1	5284.2	5068.4	4828.9	4570.4

REPORT NUMBER: P624556

CATALOG NUMBER: IFLD-S-SA2D-935-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°	40.5	40.5	39.3	38.2	37.1	34.8	33.7	32.6	31.5	29.2	28.1
85°	85.4	83.2	80.9	78.7	75.3	73.1	69.7	67.4	64.1	60.7	57.3
82.5°	134.9	131.5	127.0	123.6	119.1	113.5	109.0	103.4	97.8	93.3	87.7
80°	188.8	183.2	177.6	172.0	165.2	158.5	151.7	145.0	137.1	129.3	121.4
77.5°	247.3	239.4	231.6	222.6	214.7	205.7	196.7	187.7	177.6	167.5	157.4
75°	312.5	302.4	291.1	279.9	269.8	257.4	245.0	232.7	219.2	206.8	193.3
72.5°	383.3	370.9	357.4	344.0	329.3	313.6	297.9	281.0	265.3	249.5	232.7
70°	459.7	445.1	428.3	411.4	393.4	374.3	355.2	335.0	314.7	294.5	274.3
67.5°	541.8	523.8	503.6	483.3	460.9	438.4	415.9	392.3	367.6	342.8	319.2
65°	629.5	607.0	583.4	557.5	531.7	505.8	478.8	450.7	422.6	393.4	367.6
62.5°	727.3	699.2	668.8	637.3	608.1	576.6	547.4	512.6	478.8	446.2	413.7
60°	840.8	803.7	766.6	727.3	690.2	649.7	613.7	575.5	537.3	500.2	462.0
57.5°	967.8	920.6	875.6	828.4	779.0	734.0	687.9	641.8	599.1	555.3	513.7
55°	1111.7	1054.4	998.2	939.7	882.4	826.2	767.7	716.0	663.2	613.7	565.4
52.5°	1269.1	1203.9	1134.2	1067.9	994.8	925.1	859.9	794.7	732.9	673.3	618.2
50°	1437.7	1361.2	1281.4	1200.5	1117.3	1035.3	956.6	880.1	808.2	738.5	673.3
47.5°	1613.0	1526.5	1435.4	1343.2	1254.4	1154.4	1060.0	973.4	886.9	808.2	732.9
45°	1792.9	1695.1	1595.0	1490.5	1386.0	1278.0	1173.5	1067.9	973.4	880.1	794.7
42.5°	1978.3	1868.2	1756.9	1641.1	1525.3	1407.3	1289.3	1173.5	1060.0	956.6	859.9
40°	2169.4	2048.0	1921.0	1795.1	1671.5	1536.6	1407.3	1278.0	1154.4	1035.3	925.1
37.5°	2360.5	2227.9	2090.7	1949.1	1807.5	1671.5	1525.3	1386.0	1254.4	1117.3	994.8
35°	2552.7	2406.6	2258.2	2104.2	1949.1	1795.1	1641.1	1490.5	1343.2	1200.5	1067.9
32.5°	2746.1	2586.4	2422.3	2258.2	2090.7	1921.0	1756.9	1595.0	1435.4	1281.4	1134.2
30°	2936.0	2762.9	2586.4	2406.6	2227.9	2048.0	1868.2	1695.1	1526.5	1361.2	1203.9
27.5°	3121.5	2936.0	2746.1	2552.7	2360.5	2169.4	1978.3	1792.9	1613.0	1437.7	1269.1
25°	3300.2	3102.4	2898.9	2693.2	2488.7	2285.2	2084.0	1883.9	1695.1	1510.7	1334.3
22.5°	3468.8	3259.8	3045.1	2827.0	2607.8	2393.1	2181.8	1973.8	1772.6	1579.3	1393.8
20°	3630.7	3407.0	3188.9	2950.6	2721.3	2495.4	2274.0	2055.9	1843.4	1642.2	1447.8
17.5°	3777.9	3543.0	3304.7	3065.3	2824.7	2587.6	2356.0	2139.1	1908.6	1699.6	1499.5
15°	3910.6	3665.5	3416.0	3167.6	2916.9	2670.8	2430.2	2196.4	1968.2	1751.3	1544.5
12.5°	4026.4	3772.3	3513.8	3256.4	2999.0	2743.8	2495.4	2253.7	2019.9	1795.1	1582.7
10°	4121.9	3862.3	3595.8	3330.6	3066.4	2804.5	2548.2	2302.1	2062.6	1832.2	1614.1
7.5°	4199.5	3933.1	3662.2	3389.0	3119.3	2851.7	2590.9	2339.2	2096.4	1860.3	1638.9
5°	4254.5	3984.8	3709.4	3430.6	3157.5	2886.6	2621.3	2366.1	2120.0	1880.5	1656.9
2.5°	4289.4	4026.4	3747.6	3465.5	3188.9	2914.7	2646.0	2387.5	2139.1	1897.4	1671.5
0°	4300.6	4026.4	3747.6	3465.5	3188.9	2914.7	2646.0	2387.5	2139.1	1897.4	1671.5

REPORT NUMBER: P624556

CATALOG NUMBER: IFLD-S-SA2D-935-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°	27.0	24.7	22.5	21.4	19.1	18.0	15.7	13.5	12.4	10.1	7.9
85°	54.0	49.5	46.1	42.7	39.3	34.8	31.5	28.1	23.6	20.2	15.7
82.5°	82.1	76.4	70.8	65.2	59.6	54.0	47.2	41.6	36.0	30.3	23.6
80°	113.5	104.5	96.7	88.8	80.9	73.1	64.1	56.2	47.2	39.3	31.5
77.5°	146.1	136.0	124.8	113.5	102.3	92.2	80.9	70.8	60.7	49.5	39.3
75°	181.0	167.5	155.1	140.5	127.0	112.4	98.9	85.4	73.1	60.7	47.2
72.5°	216.9	200.1	183.2	167.5	150.6	133.8	118.0	101.2	85.4	70.8	56.2
70°	254.0	233.8	213.6	194.5	175.4	155.1	137.1	118.0	98.9	80.9	64.1
67.5°	293.4	269.8	246.2	221.4	200.1	177.6	155.1	133.8	112.4	92.2	73.1
65°	336.1	308.0	278.8	252.9	224.8	200.1	175.4	150.6	127.0	102.3	80.9
62.5°	379.9	347.3	314.7	282.1	252.9	221.4	194.5	167.5	140.5	113.5	88.8
60°	424.9	387.8	350.7	314.7	278.8	246.2	213.6	183.2	155.1	124.8	96.7
57.5°	471.0	429.4	387.8	347.3	308.0	269.8	233.8	200.1	167.5	136.0	104.5
55°	518.2	471.0	424.9	379.9	336.1	293.4	254.0	216.9	181.0	146.1	113.5
52.5°	565.4	513.7	462.0	413.7	367.6	319.2	274.3	232.7	193.3	157.4	121.4
50°	613.7	555.3	500.2	446.2	393.4	342.8	294.5	249.5	206.8	167.5	129.3
47.5°	663.2	599.1	537.3	478.8	422.6	367.6	314.7	265.3	219.2	177.6	137.1
45°	716.0	641.8	575.5	512.6	450.7	392.3	335.0	281.0	232.7	187.7	145.0
42.5°	767.7	687.9	613.7	547.4	478.8	415.9	355.2	297.9	245.0	196.7	151.7
40°	826.2	734.0	649.7	576.6	505.8	438.4	374.3	313.6	257.4	205.7	158.5
37.5°	882.4	779.0	690.2	608.1	531.7	460.9	393.4	329.3	269.8	214.7	165.2
35°	939.7	828.4	727.3	637.3	557.5	483.3	411.4	344.0	279.9	222.6	172.0
32.5°	998.2	875.6	766.6	668.8	583.4	503.6	428.3	357.4	291.1	231.6	177.6
30°	1054.4	920.6	803.7	699.2	607.0	523.8	445.1	370.9	302.4	239.4	183.2
27.5°	1111.7	967.8	840.8	727.3	629.5	541.8	459.7	383.3	312.5	247.3	188.8
25°	1166.8	1012.8	875.6	754.2	649.7	559.8	475.5	395.7	321.5	254.0	193.3
22.5°	1217.4	1052.1	907.1	780.1	671.1	575.5	489.0	406.9	330.5	260.8	197.8
20°	1263.4	1092.6	939.7	805.9	691.3	591.3	500.2	417.0	338.3	266.4	202.3
17.5°	1308.4	1129.7	968.9	829.6	708.2	604.7	511.4	424.9	345.1	270.9	205.7
15°	1346.6	1162.3	994.8	849.8	723.9	616.0	520.4	432.8	350.7	275.4	208.0
12.5°	1380.3	1190.4	1017.3	866.6	736.3	626.1	529.4	439.5	356.3	278.8	211.3
10°	1407.3	1212.9	1035.3	881.3	747.5	634.0	535.0	445.1	359.7	282.1	213.6
7.5°	1428.7	1230.8	1049.9	891.4	755.4	640.7	540.7	448.5	363.1	284.4	216.9
5°	1444.4	1244.3	1060.0	899.2	762.1	648.6	547.4	454.1	367.6	287.8	216.9
2.5°	1456.8	1254.4	1067.9	906.0	766.6	648.6	547.4	454.1	367.6	287.8	216.9
0°	1456.8	1254.4	1067.9	906.0	766.6	648.6	547.4	454.1	367.6	287.8	216.9

REPORT NUMBER: P624556

CATALOG NUMBER: IFLD-S-SA2D-935-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.6	4.5	2.2	0.0
85°	12.4	7.9	4.5	0.0
82.5°	18.0	12.4	5.6	0.0
80°	23.6	15.7	7.9	0.0
77.5°	30.3	20.2	10.1	0.0
75°	36.0	23.6	12.4	0.0
72.5°	41.6	28.1	13.5	0.0
70°	47.2	31.5	15.7	0.0
67.5°	54.0	34.8	18.0	0.0
65°	59.6	39.3	19.1	0.0
62.5°	65.2	42.7	21.4	0.0
60°	70.8	46.1	22.5	0.0
57.5°	76.4	49.5	24.7	0.0
55°	82.1	54.0	27.0	0.0
52.5°	87.7	57.3	28.1	0.0
50°	93.3	60.7	29.2	0.0
47.5°	97.8	64.1	31.5	0.0
45°	103.4	67.4	32.6	0.0
42.5°	109.0	69.7	33.7	0.0
40°	113.5	73.1	34.8	0.0
37.5°	119.1	75.3	37.1	0.0
35°	123.6	78.7	38.2	0.0
32.5°	127.0	80.9	39.3	0.0
30°	131.5	83.2	40.5	0.0
27.5°	134.9	85.4	40.5	0.0
25°	138.3	87.7	41.6	0.0
22.5°	141.6	88.8	42.7	0.0
20°	145.0	91.0	43.8	0.0
17.5°	147.3	92.2	43.8	0.0
15°	149.5	93.3	46.1	0.0
12.5°	150.6	94.4	46.1	0.0
10°	152.9	96.7	46.1	0.0
7.5°	155.1	96.7	46.1	0.0
5°	155.1	96.7	46.1	0.0
2.5°	155.1	96.7	46.1	0.0
0°	155.1	96.7	46.1	0.0

(END OF REPORT)