

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: P624498

Luminaire Tested: **IFLD-S-SA2D-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624498
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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

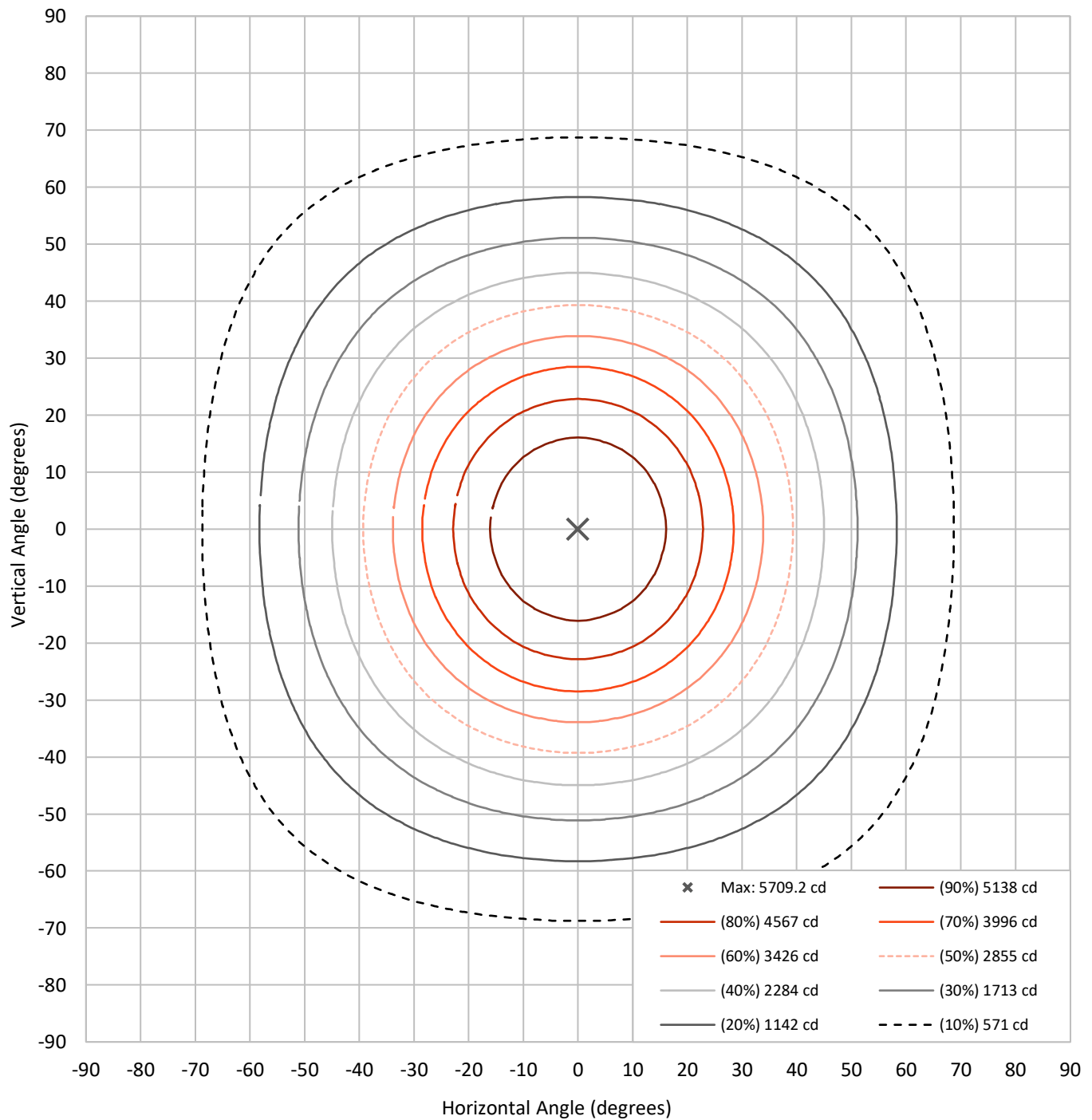
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10279.5 lumens	Max Intensity:	5709.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	83.0 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4447.8 lumens	Field Lumens:	7283.2 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: P624498

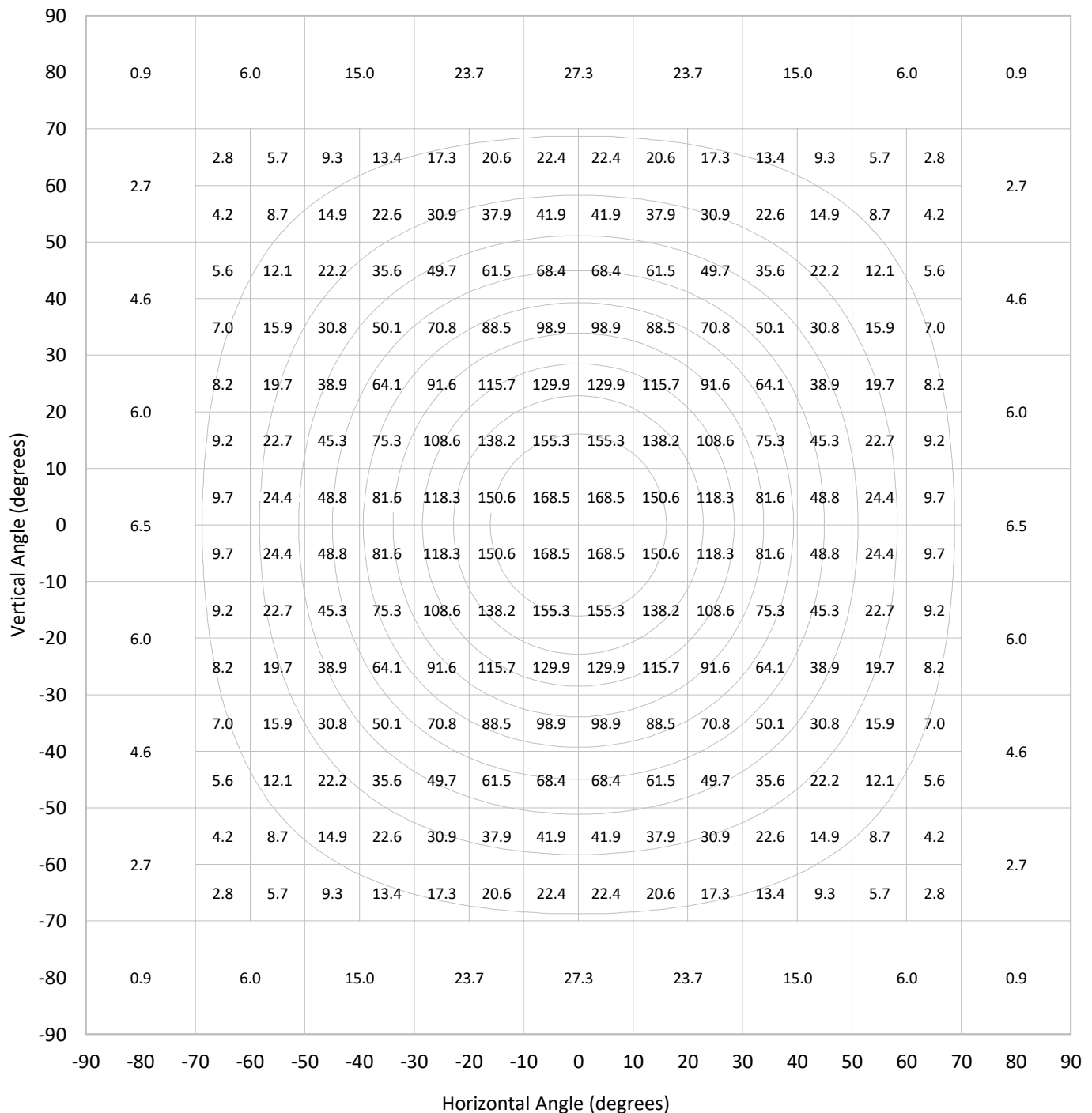
CATALOG NUMBER: IFLD-S-SA2D-927-U-77

Iso-Candela Plot



REPORT NUMBER: P624498
CATALOG NUMBER: IFLD-S-SA2D-927-U-77

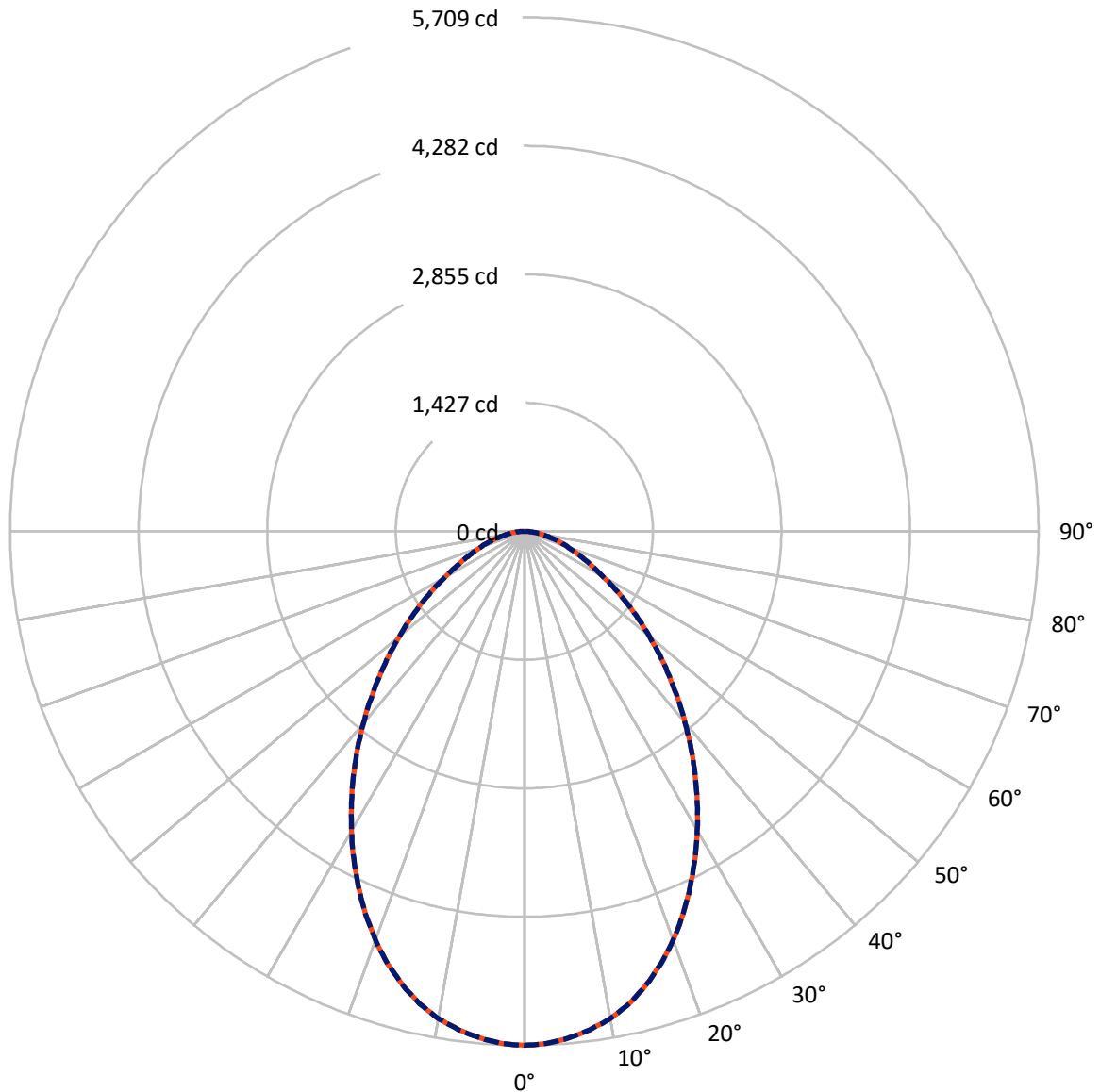
Lumen Table



REPORT NUMBER: P624498

CATALOG NUMBER: IFLD-S-SA2D-927-U-77

Luminous Intensity Polar Plot



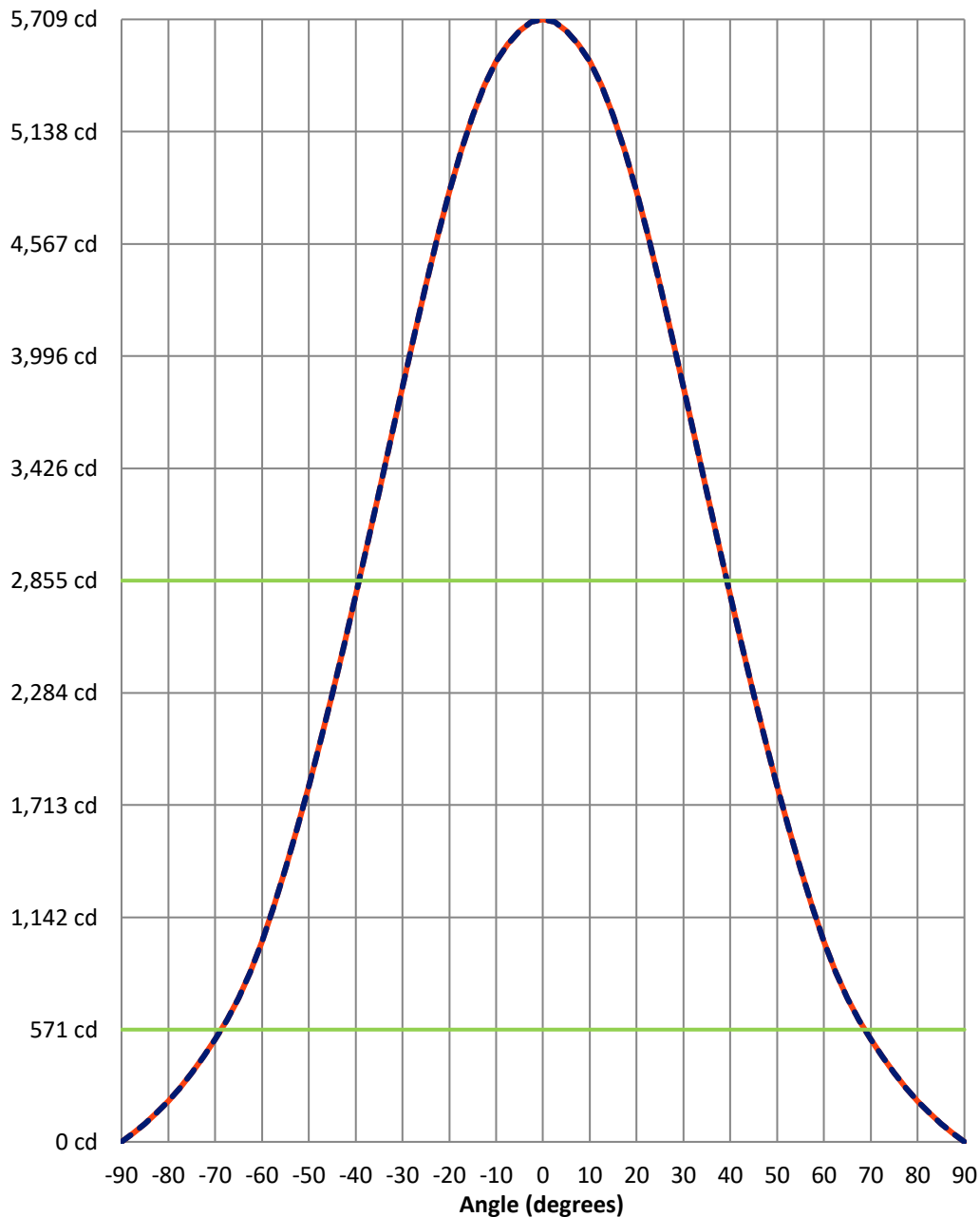
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624498

CATALOG NUMBER: IFLD-S-SA2D-927-U-77

Luminous Intensity Plot



Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	4447.8
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	7283.2
Efficiency:	70.9%

Spill:

Lumens:	2996.3
Efficiency:	29.1%

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

REPORT NUMBER: P624498

CATALOG NUMBER: IFLD-S-SA2D-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°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	41.8	41.8	40.7	39.7
85°	92.2	92.2	92.2	92.2	92.2	90.0	89.0	87.9	86.8	84.7	83.6
82.5°	147.9	147.9	147.9	147.9	145.8	143.6	142.5	140.4	138.3	135.0	131.8
80°	206.8	206.8	206.8	206.8	203.6	201.5	198.3	196.1	192.9	188.6	184.3
77.5°	274.4	274.4	274.4	271.2	269.0	265.8	262.6	258.3	254.0	248.6	242.2
75°	350.5	350.5	350.5	346.2	343.0	339.7	334.4	329.0	322.6	315.1	306.5
72.5°	433.0	433.0	433.0	427.6	424.4	419.1	412.6	405.1	397.6	388.0	377.3
70°	521.9	521.9	521.9	515.5	510.2	504.8	496.2	487.6	476.9	466.2	453.3
67.5°	618.4	618.4	618.4	610.9	604.5	597.0	587.3	576.6	563.7	548.7	533.7
65°	730.9	730.9	726.6	720.2	712.7	702.0	690.2	675.2	659.1	639.8	619.5
62.5°	863.8	863.8	857.4	849.9	840.2	826.3	810.2	790.9	768.4	743.8	719.1
60°	1018.2	1018.2	1010.7	1001.0	987.1	969.9	948.5	923.8	896.0	864.9	834.9
57.5°	1196.1	1196.1	1186.4	1173.6	1156.4	1135.0	1108.2	1077.1	1041.7	1003.2	965.6
55°	1389.0	1389.0	1377.2	1362.2	1341.8	1316.1	1284.0	1247.5	1204.6	1160.7	1112.5
52.5°	1593.7	1593.7	1579.8	1562.6	1539.0	1509.0	1472.6	1429.7	1380.4	1329.0	1272.2
50°	1809.1	1809.1	1793.0	1773.7	1746.9	1711.6	1669.8	1620.5	1565.8	1505.8	1440.4
47.5°	2039.5	2039.5	2021.3	1998.8	1966.7	1925.9	1876.6	1819.8	1757.7	1690.1	1616.2
45°	2276.4	2276.4	2256.0	2230.3	2194.9	2148.8	2094.2	2039.5	1960.2	1882.0	1796.2
42.5°	2522.9	2522.9	2499.3	2470.4	2429.6	2379.3	2317.1	2246.4	2168.1	2080.3	1987.0
40°	2779.0	2779.0	2752.2	2719.0	2674.0	2616.1	2546.5	2467.2	2379.3	2281.7	2178.9
37.5°	3040.5	3040.5	3010.5	2974.1	2923.7	2859.4	2781.2	2693.3	2594.7	2486.4	2372.8
35°	3304.2	3304.2	3271.0	3231.3	3175.6	3104.8	3020.2	2922.6	2813.3	2695.4	2567.9
32.5°	3573.2	3573.2	3536.8	3491.7	3428.5	3350.3	3257.0	3150.9	3040.5	2903.4	2764.0
30°	3839.0	3839.0	3799.3	3750.0	3682.5	3596.8	3495.0	3378.1	3248.5	3108.1	2958.0
27.5°	4100.5	4089.8	4056.6	4004.0	3930.1	3839.0	3728.6	3602.1	3461.7	3307.4	3146.6
25°	4357.7	4345.9	4309.5	4251.6	4172.3	4072.6	3953.7	3818.6	3667.5	3504.6	3328.8
22.5°	4604.2	4591.4	4552.8	4490.6	4405.9	4297.7	4170.2	4025.5	3864.7	3690.0	3504.6
20°	4832.5	4818.6	4778.9	4713.5	4625.7	4511.0	4375.9	4220.5	4049.1	3864.7	3667.5
17.5°	5038.3	5024.3	4982.5	4915.0	4832.5	4705.0	4565.6	4401.7	4220.5	4025.5	3818.6
15°	5219.4	5204.4	5161.5	5094.0	4999.7	4879.7	4732.8	4565.6	4375.9	4170.2	3953.7
12.5°	5373.7	5358.7	5314.8	5247.3	5149.7	5029.7	4879.7	4705.0	4511.0	4297.7	4072.6
10°	5495.9	5480.9	5439.1	5374.8	5274.1	5149.7	4999.7	4832.5	4625.7	4405.9	4172.3
7.5°	5583.8	5569.9	5531.3	5467.0	5374.8	5247.3	5094.0	4915.0	4713.5	4490.6	4251.6
5°	5650.2	5634.2	5595.6	5531.3	5439.1	5314.8	5161.5	4982.5	4778.9	4552.8	4309.5
2.5°	5696.3	5677.0	5634.2	5569.9	5480.9	5358.7	5204.4	5024.3	4818.6	4591.4	4345.9
0°	5709.2	5696.3	5650.2	5583.8	5495.9	5373.7	5219.4	5038.3	4832.5	4604.2	4357.7

REPORT NUMBER: P624498

CATALOG NUMBER: IFLD-S-SA2D-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°	38.6	38.6	37.5	36.4	35.4	33.2	32.2	31.1	30.0	27.9	26.8
85°	81.5	79.3	77.2	75.0	71.8	69.7	66.4	64.3	61.1	57.9	54.7
82.5°	128.6	125.4	121.1	117.9	113.6	108.2	104.0	98.6	93.2	89.0	83.6
80°	180.1	174.7	169.3	164.0	157.5	151.1	144.7	138.3	130.8	123.3	115.7
77.5°	235.8	228.3	220.8	212.2	204.7	196.1	187.6	179.0	169.3	159.7	150.0
75°	297.9	288.3	277.6	266.9	257.2	245.4	233.6	221.9	209.0	197.2	184.3
72.5°	365.5	353.7	340.8	328.0	314.0	299.0	284.0	267.9	252.9	237.9	221.9
70°	438.3	424.4	408.3	392.3	375.1	356.9	338.7	319.4	300.1	280.8	261.5
67.5°	516.6	499.4	480.1	460.9	439.4	418.0	396.5	374.0	350.5	326.9	304.4
65°	600.2	578.7	556.2	531.6	506.9	482.3	456.6	429.8	403.0	375.1	350.5
62.5°	693.4	666.6	637.7	607.7	579.8	549.8	521.9	488.7	456.6	425.5	394.4
60°	801.7	766.3	730.9	693.4	658.1	619.5	585.2	548.7	512.3	476.9	440.5
57.5°	922.8	877.8	834.9	789.9	742.7	699.8	655.9	612.0	571.2	529.4	489.8
55°	1060.0	1005.3	951.7	896.0	841.3	787.7	732.0	682.7	632.3	585.2	539.1
52.5°	1210.0	1147.8	1081.4	1018.2	948.5	882.0	819.9	757.7	698.8	642.0	589.5
50°	1370.8	1297.9	1221.8	1144.6	1065.3	987.1	912.1	839.2	770.6	704.1	642.0
47.5°	1538.0	1455.4	1368.6	1280.7	1196.1	1100.7	1010.7	928.1	845.6	770.6	698.8
45°	1709.4	1616.2	1520.8	1421.1	1321.5	1218.6	1118.9	1018.2	928.1	839.2	757.7
42.5°	1886.3	1781.2	1675.1	1564.7	1454.4	1341.8	1229.3	1118.9	1010.7	912.1	819.9
40°	2068.5	1952.7	1831.6	1711.6	1593.7	1465.1	1341.8	1218.6	1100.7	987.1	882.0
37.5°	2250.7	2124.2	1993.4	1858.4	1723.4	1593.7	1454.4	1321.5	1196.1	1065.3	948.5
35°	2433.9	2294.6	2153.1	2006.3	1858.4	1711.6	1564.7	1421.1	1280.7	1144.6	1018.2
32.5°	2618.3	2466.1	2309.6	2153.1	1993.4	1831.6	1675.1	1520.8	1368.6	1221.8	1081.4
30°	2799.4	2634.3	2466.1	2294.6	2124.2	1952.7	1781.2	1616.2	1455.4	1297.9	1147.8
27.5°	2976.2	2799.4	2618.3	2433.9	2250.7	2068.5	1886.3	1709.4	1538.0	1370.8	1210.0
25°	3146.6	2958.0	2764.0	2567.9	2372.8	2178.9	1987.0	1796.2	1616.2	1440.4	1272.2
22.5°	3307.4	3108.1	2903.4	2695.4	2486.4	2281.7	2080.3	1882.0	1690.1	1505.8	1329.0
20°	3461.7	3248.5	3040.5	2813.3	2594.7	2379.3	2168.1	1960.2	1757.7	1565.8	1380.4
17.5°	3602.1	3378.1	3150.9	2922.6	2693.3	2467.2	2246.4	2039.5	1819.8	1620.5	1429.7
15°	3728.6	3495.0	3257.0	3020.2	2781.2	2546.5	2317.1	2094.2	1876.6	1669.8	1472.6
12.5°	3839.0	3596.8	3350.3	3104.8	2859.4	2616.1	2379.3	2148.8	1925.9	1711.6	1509.0
10°	3930.1	3682.5	3428.5	3175.6	2923.7	2674.0	2429.6	2194.9	1966.7	1746.9	1539.0
7.5°	4004.0	3750.0	3491.7	3231.3	2974.1	2719.0	2470.4	2230.3	1998.8	1773.7	1562.6
5°	4056.6	3799.3	3536.8	3271.0	3010.5	2752.2	2499.3	2256.0	2021.3	1793.0	1579.8
2.5°	4089.8	3839.0	3573.2	3304.2	3040.5	2779.0	2522.9	2276.4	2039.5	1809.1	1593.7
0°	4100.5	3839.0	3573.2	3304.2	3040.5	2779.0	2522.9	2276.4	2039.5	1809.1	1593.7

REPORT NUMBER: P624498

CATALOG NUMBER: IFLD-S-SA2D-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°	25.7	23.6	21.4	20.4	18.2	17.1	15.0	12.9	11.8	9.6	7.5
85°	51.4	47.2	43.9	40.7	37.5	33.2	30.0	26.8	22.5	19.3	15.0
82.5°	78.2	72.9	67.5	62.2	56.8	51.4	45.0	39.7	34.3	28.9	22.5
80°	108.2	99.7	92.2	84.7	77.2	69.7	61.1	53.6	45.0	37.5	30.0
77.5°	139.3	129.7	119.0	108.2	97.5	87.9	77.2	67.5	57.9	47.2	37.5
75°	172.6	159.7	147.9	134.0	121.1	107.2	94.3	81.5	69.7	57.9	45.0
72.5°	206.8	190.8	174.7	159.7	143.6	127.5	112.5	96.5	81.5	67.5	53.6
70°	242.2	222.9	203.6	185.4	167.2	147.9	130.8	112.5	94.3	77.2	61.1
67.5°	279.7	257.2	234.7	211.1	190.8	169.3	147.9	127.5	107.2	87.9	69.7
65°	320.5	293.7	265.8	241.1	214.3	190.8	167.2	143.6	121.1	97.5	77.2
62.5°	362.2	331.2	300.1	269.0	241.1	211.1	185.4	159.7	134.0	108.2	84.7
60°	405.1	369.8	334.4	300.1	265.8	234.7	203.6	174.7	147.9	119.0	92.2
57.5°	449.1	409.4	369.8	331.2	293.7	257.2	222.9	190.8	159.7	129.7	99.7
55°	494.1	449.1	405.1	362.2	320.5	279.7	242.2	206.8	172.6	139.3	108.2
52.5°	539.1	489.8	440.5	394.4	350.5	304.4	261.5	221.9	184.3	150.0	115.7
50°	585.2	529.4	476.9	425.5	375.1	326.9	280.8	237.9	197.2	159.7	123.3
47.5°	632.3	571.2	512.3	456.6	403.0	350.5	300.1	252.9	209.0	169.3	130.8
45°	682.7	612.0	548.7	488.7	429.8	374.0	319.4	267.9	221.9	179.0	138.3
42.5°	732.0	655.9	585.2	521.9	456.6	396.5	338.7	284.0	233.6	187.6	144.7
40°	787.7	699.8	619.5	549.8	482.3	418.0	356.9	299.0	245.4	196.1	151.1
37.5°	841.3	742.7	658.1	579.8	506.9	439.4	375.1	314.0	257.2	204.7	157.5
35°	896.0	789.9	693.4	607.7	531.6	460.9	392.3	328.0	266.9	212.2	164.0
32.5°	951.7	834.9	730.9	637.7	556.2	480.1	408.3	340.8	277.6	220.8	169.3
30°	1005.3	877.8	766.3	666.6	578.7	499.4	424.4	353.7	288.3	228.3	174.7
27.5°	1060.0	922.8	801.7	693.4	600.2	516.6	438.3	365.5	297.9	235.8	180.1
25°	1112.5	965.6	834.9	719.1	619.5	533.7	453.3	377.3	306.5	242.2	184.3
22.5°	1160.7	1003.2	864.9	743.8	639.8	548.7	466.2	388.0	315.1	248.6	188.6
20°	1204.6	1041.7	896.0	768.4	659.1	563.7	476.9	397.6	322.6	254.0	192.9
17.5°	1247.5	1077.1	923.8	790.9	675.2	576.6	487.6	405.1	329.0	258.3	196.1
15°	1284.0	1108.2	948.5	810.2	690.2	587.3	496.2	412.6	334.4	262.6	198.3
12.5°	1316.1	1135.0	969.9	826.3	702.0	597.0	504.8	419.1	339.7	265.8	201.5
10°	1341.8	1156.4	987.1	840.2	712.7	604.5	510.2	424.4	343.0	269.0	203.6
7.5°	1362.2	1173.6	1001.0	849.9	720.2	610.9	515.5	427.6	346.2	271.2	206.8
5°	1377.2	1186.4	1010.7	857.4	726.6	618.4	521.9	433.0	350.5	274.4	206.8
2.5°	1389.0	1196.1	1018.2	863.8	730.9	618.4	521.9	433.0	350.5	274.4	206.8
0°	1389.0	1196.1	1018.2	863.8	730.9	618.4	521.9	433.0	350.5	274.4	206.8

REPORT NUMBER: P624498

CATALOG NUMBER: IFLD-S-SA2D-927-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.4	4.3	2.1	0.0
85°	11.8	7.5	4.3	0.0
82.5°	17.1	11.8	5.4	0.0
80°	22.5	15.0	7.5	0.0
77.5°	28.9	19.3	9.6	0.0
75°	34.3	22.5	11.8	0.0
72.5°	39.7	26.8	12.9	0.0
70°	45.0	30.0	15.0	0.0
67.5°	51.4	33.2	17.1	0.0
65°	56.8	37.5	18.2	0.0
62.5°	62.2	40.7	20.4	0.0
60°	67.5	43.9	21.4	0.0
57.5°	72.9	47.2	23.6	0.0
55°	78.2	51.4	25.7	0.0
52.5°	83.6	54.7	26.8	0.0
50°	89.0	57.9	27.9	0.0
47.5°	93.2	61.1	30.0	0.0
45°	98.6	64.3	31.1	0.0
42.5°	104.0	66.4	32.2	0.0
40°	108.2	69.7	33.2	0.0
37.5°	113.6	71.8	35.4	0.0
35°	117.9	75.0	36.4	0.0
32.5°	121.1	77.2	37.5	0.0
30°	125.4	79.3	38.6	0.0
27.5°	128.6	81.5	38.6	0.0
25°	131.8	83.6	39.7	0.0
22.5°	135.0	84.7	40.7	0.0
20°	138.3	86.8	41.8	0.0
17.5°	140.4	87.9	41.8	0.0
15°	142.5	89.0	43.9	0.0
12.5°	143.6	90.0	43.9	0.0
10°	145.8	92.2	43.9	0.0
7.5°	147.9	92.2	43.9	0.0
5°	147.9	92.2	43.9	0.0
2.5°	147.9	92.2	43.9	0.0
0°	147.9	92.2	43.9	0.0

(END OF REPORT)