

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: P628418

Luminaire Tested: **IFLD-S-SA3C-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628418
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

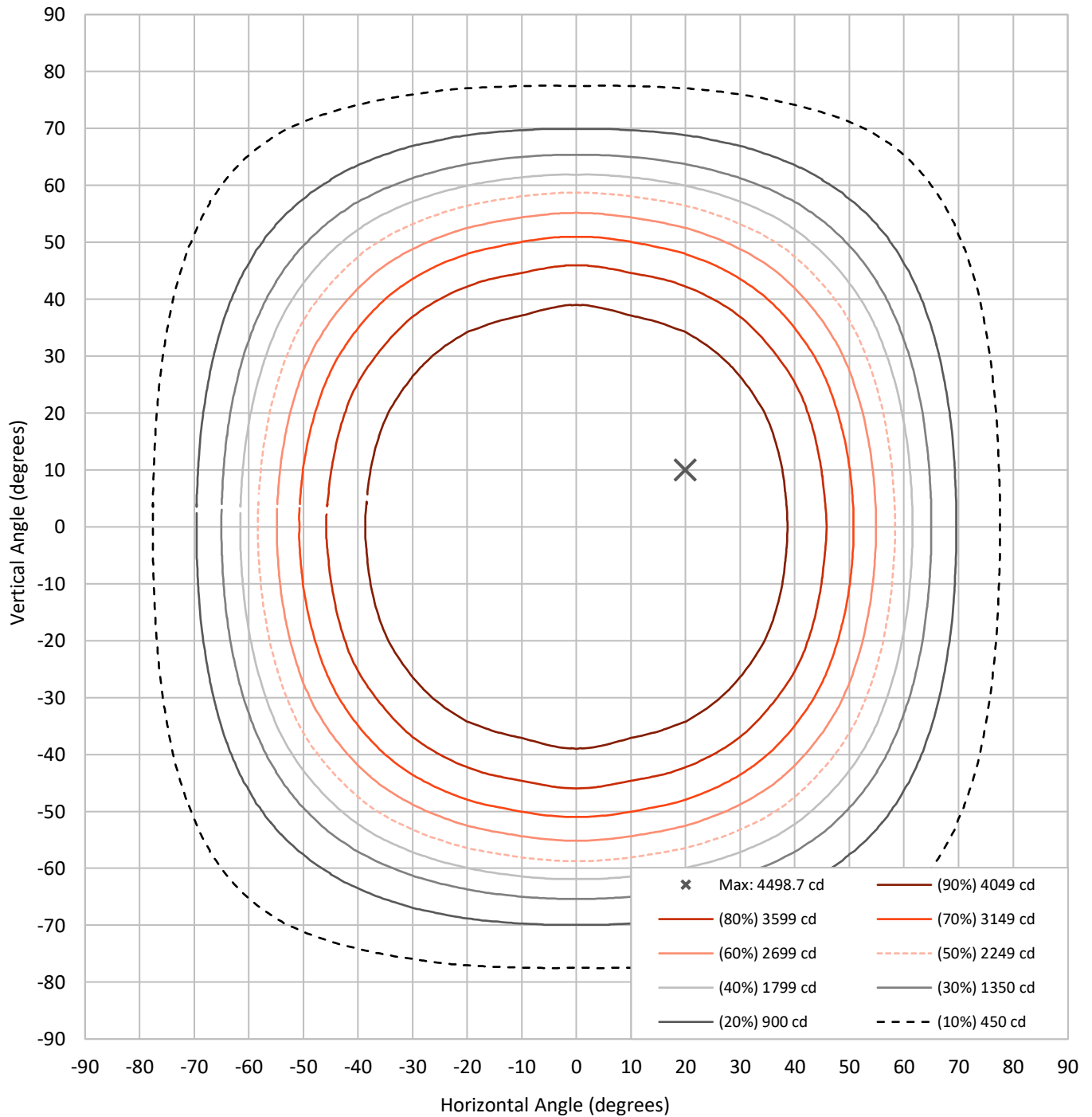
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13801.5 lumens	Max Intensity:	4498.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	85.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	8468.9 lumens	Field Lumens:	10152.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	160.8		
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: P628418
CATALOG NUMBER: IFLD-S-SA3C-927-U-LAM

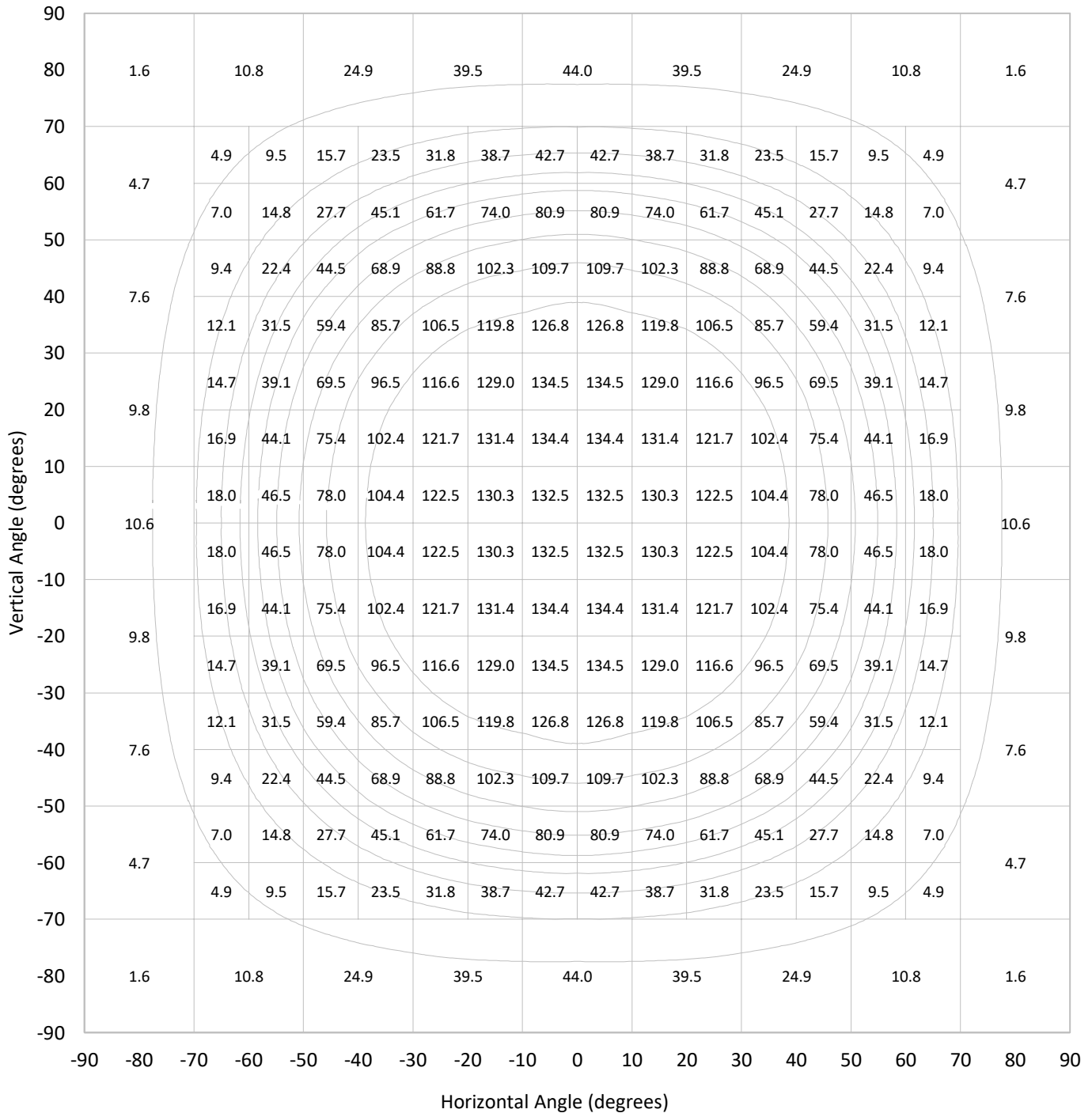
Iso-Candela Plot





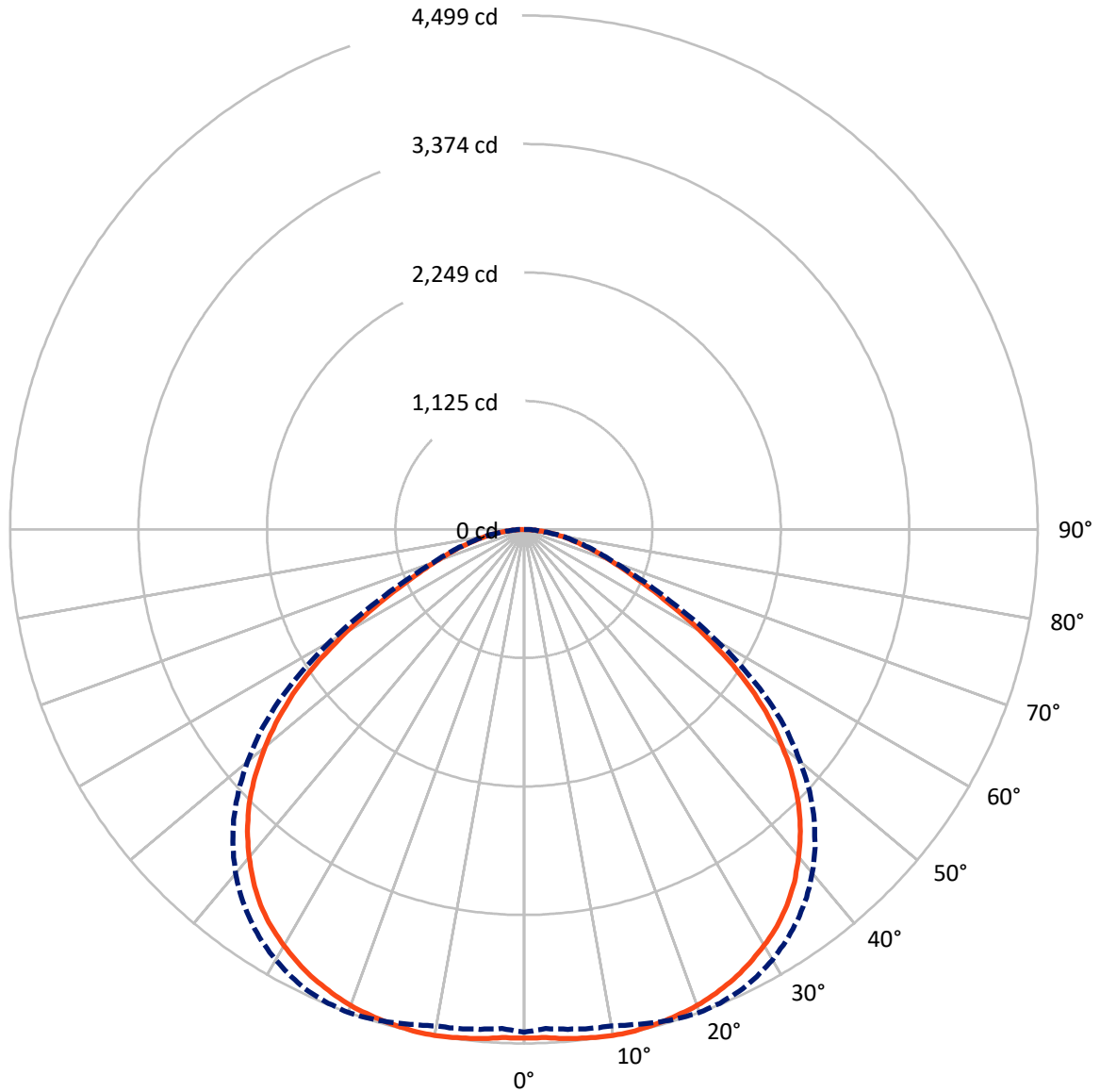
REPORT NUMBER: P628418
 CATALOG NUMBER: IFLD-S-SA3C-927-U-LAM

Lumen Table



REPORT NUMBER: P628418
CATALOG NUMBER: IFLD-S-SA3C-927-U-LAM

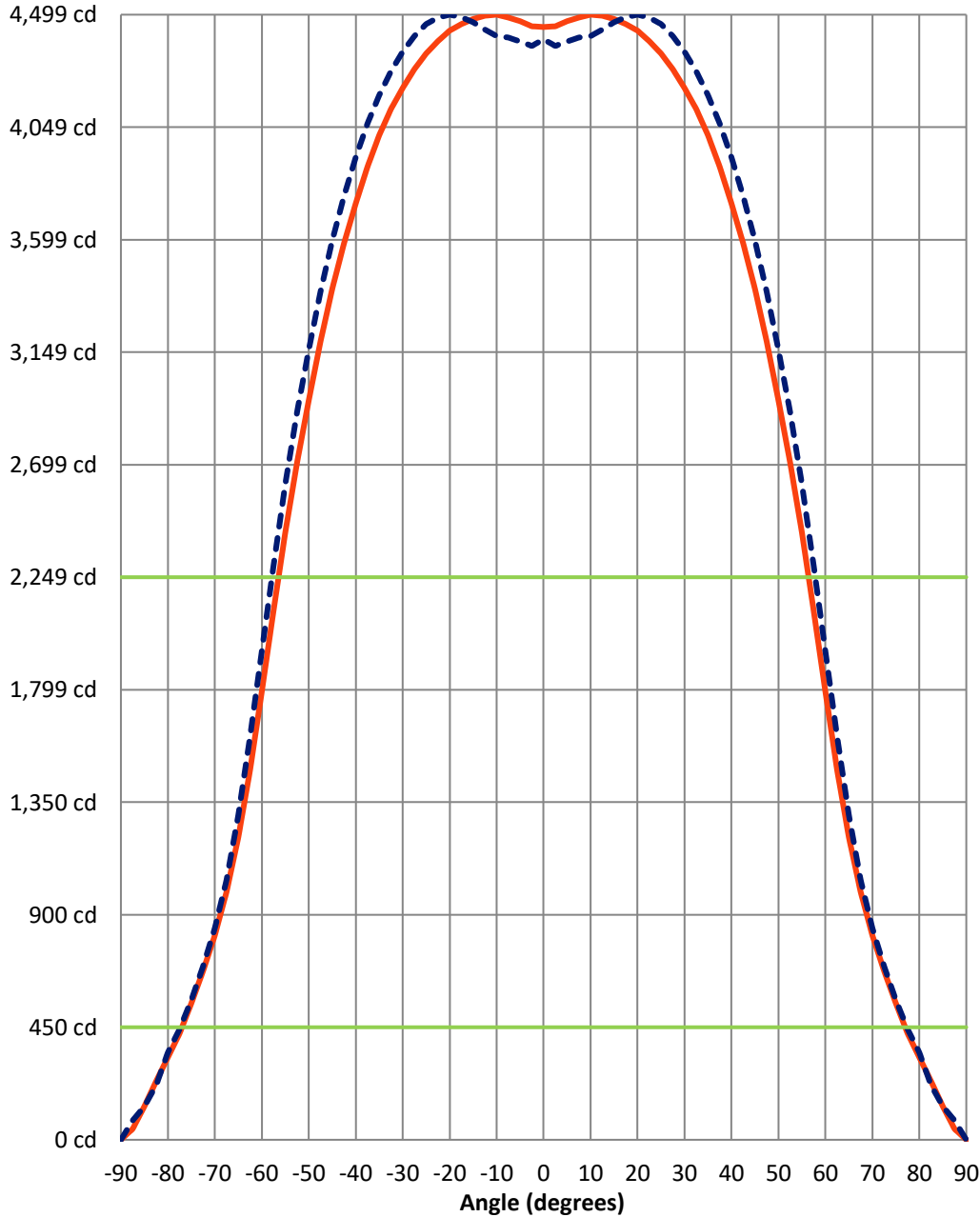
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P628418
 CATALOG NUMBER: IFLD-S-SA3C-927-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 8468.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 10152.8
 Efficiency: 73.6%

Spill:
 Lumens: 3648.8
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



REPORT NUMBER: P628418
 CATALOG NUMBER: IFLD-S-SA3C-927-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°	36.3	39.2	40.7	42.1	43.6	45.0	46.5	45.0	43.6	43.6	42.1
85°	97.3	100.2	101.6	111.8	122.0	127.8	135.0	133.6	133.6	132.1	130.7
82.5°	194.6	203.3	210.6	220.7	226.5	235.2	241.1	236.7	233.8	228.0	223.6
80°	345.6	348.5	350.0	351.4	344.2	342.7	339.8	335.4	329.6	322.4	315.1
77.5°	440.0	442.9	445.8	442.9	441.5	440.0	435.6	431.3	425.5	419.7	411.0
75°	582.3	582.3	582.3	578.0	575.0	570.7	563.4	556.2	546.0	534.4	521.3
72.5°	733.3	731.9	730.4	721.7	714.5	705.7	695.6	686.9	675.2	662.2	644.8
70°	891.6	894.5	896.0	884.4	875.6	864.0	851.0	835.0	817.6	798.7	774.0
67.5°	1109.4	1106.5	1103.6	1087.7	1076.0	1060.1	1041.2	1018.0	991.8	962.8	927.9
65°	1379.5	1383.9	1375.2	1359.2	1337.4	1311.3	1282.2	1248.8	1209.6	1166.1	1116.7
62.5°	1706.3	1713.5	1703.4	1683.0	1655.4	1620.6	1579.9	1532.0	1478.3	1417.3	1356.3
60°	2078.0	2076.6	2057.7	2030.1	1993.8	1950.2	1905.2	1852.9	1791.9	1720.8	1646.7
57.5°	2419.3	2416.4	2393.1	2365.5	2329.2	2282.8	2234.8	2179.7	2115.8	2040.3	1954.6
55°	2725.7	2722.8	2699.5	2670.5	2632.7	2586.3	2542.7	2490.4	2428.0	2348.1	2256.6
52.5°	2997.2	2998.7	2978.3	2946.4	2905.7	2860.7	2818.6	2766.3	2706.8	2626.9	2538.3
50°	3247.0	3245.5	3223.8	3194.7	3157.0	3113.4	3071.3	3019.0	2956.6	2879.6	2793.9
47.5°	3479.3	3476.4	3451.7	3419.8	3380.6	3342.8	3303.6	3257.2	3191.8	3114.8	3029.2
45°	3673.9	3668.1	3643.4	3612.9	3575.2	3541.8	3506.9	3472.1	3402.4	3331.2	3249.9
42.5°	3840.9	3839.5	3814.8	3784.3	3746.5	3717.5	3685.5	3642.0	3583.9	3518.5	3438.7
40°	4000.6	3989.0	3964.3	3935.3	3900.5	3875.8	3843.8	3800.3	3743.6	3679.7	3602.8
37.5°	4119.7	4121.2	4095.0	4063.1	4032.6	4009.4	3980.3	3939.7	3890.3	3827.8	3750.9
35°	4233.0	4225.7	4203.9	4176.4	4148.8	4122.6	4092.1	4057.3	4016.6	3958.5	3885.9
32.5°	4307.1	4317.2	4291.1	4262.0	4246.1	4225.7	4193.8	4157.5	4121.2	4063.1	3997.7
30°	4388.4	4379.7	4359.3	4334.6	4323.0	4310.0	4282.4	4247.5	4205.4	4153.1	4092.1
27.5°	4445.0	4440.6	4416.0	4392.7	4386.9	4375.3	4353.5	4323.0	4280.9	4230.1	4173.5
25°	4469.7	4472.6	4449.4	4436.3	4436.3	4429.0	4411.6	4385.5	4343.4	4296.9	4241.7
22.5°	4481.3	4478.4	4462.4	4459.5	4466.8	4461.0	4453.7	4430.5	4392.7	4355.0	4308.5
20°	4488.6	4468.2	4453.7	4465.3	4474.0	4472.6	4466.8	4452.3	4434.8	4402.9	4362.2
17.5°	4472.6	4459.5	4442.1	4459.5	4478.4	4479.9	4474.0	4465.3	4461.0	4440.6	4404.3
15°	4433.4	4423.2	4426.1	4443.6	4465.3	4472.6	4477.0	4487.1	4481.3	4465.3	4433.4
12.5°	4407.2	4394.2	4407.2	4424.7	4436.3	4440.6	4475.5	4494.4	4494.4	4479.9	4459.5
10°	4400.0	4373.9	4391.3	4407.2	4413.1	4439.2	4468.2	4488.6	4498.7	4487.1	4461.0
7.5°	4385.5	4368.0	4375.3	4382.6	4416.0	4434.8	4450.8	4472.6	4487.1	4485.7	4462.4
5°	4378.2	4356.4	4359.3	4389.8	4413.1	4426.1	4431.9	4450.8	4472.6	4477.0	4459.5
2.5°	4359.3	4349.2	4370.9	4373.9	4391.3	4401.4	4407.2	4424.7	4452.3	4462.4	4455.2
0°	4349.2	4334.6	4320.1	4331.7	4360.8	4382.6	4391.3	4417.4	4449.4	4459.5	4443.6



REPORT NUMBER: P628418
 CATALOG NUMBER: IFLD-S-SA3C-927-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°	40.7	39.2	37.8	36.3	37.8	37.8	37.8	36.3	37.8	36.3	36.3
85°	126.3	120.5	116.2	110.4	104.6	100.2	94.4	88.6	87.1	85.7	82.8
82.5°	217.8	210.6	203.3	194.6	185.9	175.7	165.5	153.9	151.0	148.1	143.8
80°	306.4	296.2	286.1	275.9	267.2	257.0	245.4	232.3	223.6	216.4	207.7
77.5°	399.3	384.8	370.3	352.9	342.7	332.5	320.9	307.9	294.8	283.2	270.1
75°	505.3	489.4	474.9	457.4	438.5	419.7	400.8	383.4	364.5	347.1	329.6
72.5°	623.0	599.7	576.5	554.7	531.5	508.2	483.6	460.3	437.1	413.9	389.2
70°	746.4	717.4	688.3	659.3	628.8	598.3	569.2	540.2	511.2	480.7	453.1
67.5°	891.6	858.2	820.5	779.8	734.8	695.6	657.8	623.0	588.1	553.3	518.4
65°	1073.1	1026.7	975.8	920.7	868.4	816.1	760.9	708.6	668.0	627.3	588.1
62.5°	1296.8	1231.4	1160.3	1089.1	1025.2	957.0	893.1	824.8	760.9	702.8	654.9
60°	1564.0	1475.4	1388.2	1296.8	1208.2	1115.2	1033.9	949.7	869.8	798.7	729.0
57.5°	1858.7	1755.6	1651.1	1539.3	1418.7	1309.8	1199.5	1089.1	994.7	900.3	821.9
55°	2157.9	2049.0	1931.3	1805.0	1672.9	1533.5	1383.9	1260.5	1131.2	1020.9	919.2
52.5°	2442.5	2329.2	2207.3	2091.1	1932.8	1773.1	1609.0	1446.3	1295.3	1154.5	1031.0
50°	2696.6	2586.3	2468.6	2333.6	2186.9	2017.0	1834.1	1651.1	1472.5	1306.9	1153.0
47.5°	2929.0	2821.5	2703.9	2568.8	2435.2	2246.5	2062.0	1860.2	1661.2	1471.0	1291.0
45°	3146.8	3037.9	2915.9	2786.7	2632.7	2464.3	2274.1	2070.8	1857.3	1643.8	1436.2
42.5°	3344.3	3235.4	3111.9	2978.3	2825.9	2658.9	2474.4	2269.7	2054.8	1822.4	1594.5
40°	3517.1	3411.1	3292.0	3152.6	3010.3	2834.6	2653.1	2458.5	2236.3	2002.5	1751.3
37.5°	3668.1	3569.4	3451.7	3313.8	3162.8	3005.9	2818.6	2624.0	2423.6	2169.5	1912.5
35°	3801.7	3710.2	3589.7	3459.0	3310.9	3145.3	2969.6	2779.4	2563.0	2324.9	2075.1
32.5°	3917.9	3824.9	3714.6	3583.9	3440.1	3284.7	3104.7	2913.0	2708.2	2465.7	2194.2
30°	4016.6	3926.6	3822.0	3698.6	3560.7	3406.7	3231.0	3037.9	2828.8	2587.7	2319.1
27.5°	4102.3	4016.6	3915.0	3800.3	3668.1	3520.0	3342.8	3148.2	2934.8	2702.4	2433.8
25°	4176.4	4093.6	3999.2	3890.3	3759.6	3614.4	3447.4	3244.1	3030.6	2796.8	2531.1
22.5°	4243.2	4163.3	4068.9	3962.9	3843.8	3698.6	3530.2	3328.3	3111.9	2881.0	2619.7
20°	4302.7	4228.6	4135.7	4026.8	3907.7	3761.0	3594.1	3402.4	3184.5	2958.0	2699.5
17.5°	4350.6	4285.3	4192.3	4077.6	3958.5	3816.2	3653.6	3477.9	3247.0	3023.4	2766.3
15°	4384.0	4320.1	4235.9	4119.7	4003.6	3862.7	3700.1	3518.5	3303.6	3075.6	2821.5
12.5°	4407.2	4339.0	4260.6	4153.1	4037.0	3897.5	3739.3	3560.7	3351.5	3122.1	2869.4
10°	4413.1	4350.6	4272.2	4176.4	4063.1	3928.0	3772.7	3595.5	3390.8	3158.4	2908.6
7.5°	4416.0	4356.4	4285.3	4193.8	4082.0	3951.3	3797.4	3623.1	3419.8	3188.9	2937.7
5°	4414.5	4357.9	4294.0	4205.4	4093.6	3964.3	3813.3	3642.0	3440.1	3209.2	2959.5
2.5°	4410.2	4359.3	4299.8	4214.1	4106.7	3978.9	3829.3	3663.8	3461.9	3226.7	2976.9
0°	4421.8	4378.2	4302.7	4211.2	4109.6	3978.9	3827.8	3666.7	3464.8	3225.2	2975.4



REPORT NUMBER: P628418
 CATALOG NUMBER: IFLD-S-SA3C-927-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°	36.3	34.9	34.9	33.4	31.9	30.5	27.6	26.1	23.2	18.9	14.5
85°	78.4	74.1	69.7	66.8	63.9	61.0	56.6	52.3	46.5	37.8	29.0
82.5°	138.0	129.2	120.5	110.4	101.6	92.9	85.7	78.4	69.7	56.6	43.6
80°	197.5	184.4	171.4	156.8	143.8	129.2	116.2	104.6	92.9	75.5	58.1
77.5°	257.0	239.6	220.7	203.3	184.4	165.5	146.7	130.7	113.3	92.9	72.6
75°	312.2	291.9	274.5	249.8	226.5	201.8	177.2	155.4	133.6	108.9	87.1
72.5°	367.4	341.3	316.6	293.3	267.2	236.7	209.1	181.5	153.9	124.9	98.7
70°	422.6	390.6	360.1	332.5	303.5	273.0	239.6	207.7	174.3	139.4	108.9
67.5°	479.2	442.9	408.1	373.2	339.8	304.9	270.1	233.8	194.6	153.9	120.5
65°	541.6	496.6	454.5	415.3	376.1	338.3	299.1	259.9	216.4	169.9	130.7
62.5°	604.1	554.7	505.3	456.0	412.4	370.3	328.2	284.6	236.7	187.3	140.9
60°	670.9	614.3	557.6	502.4	448.7	402.2	355.8	309.3	258.5	203.3	151.0
57.5°	744.9	676.7	612.8	550.4	489.4	434.2	383.4	334.0	277.4	219.3	162.6
55°	829.2	744.9	669.4	599.7	532.9	466.1	411.0	360.1	299.1	235.2	175.7
52.5°	917.8	820.5	729.0	650.6	579.4	503.9	437.1	380.5	320.9	251.2	187.3
50°	1020.9	897.4	795.8	699.9	620.1	541.6	464.7	403.7	342.7	270.1	198.9
47.5°	1126.9	990.4	862.6	758.0	663.6	578.0	496.6	424.0	363.0	287.5	210.6
45°	1250.3	1078.9	938.1	814.7	705.7	615.7	528.6	445.8	380.5	304.9	222.2
42.5°	1369.4	1183.5	1016.5	877.1	753.7	652.0	557.6	469.0	397.9	322.4	232.3
40°	1510.2	1288.0	1092.0	936.6	801.6	686.9	586.7	493.7	413.9	338.3	242.5
37.5°	1645.3	1394.1	1183.5	1002.0	848.1	721.7	615.7	517.0	428.4	354.3	255.6
35°	1778.9	1511.7	1270.6	1063.0	896.0	760.9	644.8	538.7	442.9	367.4	267.2
32.5°	1906.7	1622.0	1359.2	1131.2	948.2	797.2	670.9	559.1	457.4	379.0	278.8
30°	2025.7	1726.6	1446.3	1200.9	996.2	830.6	695.6	579.4	474.9	389.2	290.4
27.5°	2134.6	1828.2	1533.5	1266.3	1041.2	861.1	721.7	598.3	489.4	399.3	300.6
25°	2233.4	1919.7	1613.3	1325.8	1081.8	894.5	746.4	617.2	502.4	408.1	309.3
22.5°	2326.3	2004.0	1685.9	1385.3	1131.2	927.9	769.6	634.6	515.5	416.8	318.0
20°	2407.7	2080.9	1755.6	1444.9	1174.8	958.4	790.0	650.6	527.1	422.6	326.7
17.5°	2473.0	2149.2	1818.1	1497.2	1212.5	984.6	807.4	665.1	537.3	429.8	332.5
15°	2531.1	2207.3	1870.4	1542.2	1245.9	1006.3	823.4	676.7	546.0	434.2	339.8
12.5°	2580.5	2256.6	1915.4	1581.4	1275.0	1025.2	836.4	685.4	553.3	438.5	344.2
10°	2621.1	2295.8	1953.1	1611.9	1298.2	1039.7	846.6	694.1	559.1	442.9	348.5
7.5°	2651.6	2324.9	1980.7	1638.0	1317.1	1049.9	855.3	699.9	564.9	445.8	355.8
5°	2674.8	2349.6	2002.5	1655.4	1331.6	1064.4	865.5	707.2	570.7	448.7	355.8
2.5°	2692.3	2369.9	2019.9	1670.0	1343.2	1061.5	865.5	705.7	570.7	448.7	354.3
0°	2689.4	2371.3	2018.5	1670.0	1343.2	1058.6	865.5	704.3	570.7	448.7	354.3



REPORT NUMBER: P628418
 CATALOG NUMBER: IFLD-S-SA3C-927-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.2	7.3	2.9	0.0
85°	21.8	14.5	7.3	0.0
82.5°	31.9	20.3	10.2	0.0
80°	42.1	27.6	13.1	0.0
77.5°	53.7	34.9	17.4	0.0
75°	63.9	40.7	20.3	0.0
72.5°	74.1	47.9	23.2	0.0
70°	82.8	53.7	26.1	0.0
67.5°	91.5	61.0	30.5	0.0
65°	98.7	66.8	33.4	0.0
62.5°	104.6	74.1	36.3	0.0
60°	111.8	79.9	39.2	0.0
57.5°	117.6	84.2	42.1	0.0
55°	123.4	87.1	45.0	0.0
52.5°	129.2	91.5	47.9	0.0
50°	135.0	95.8	50.8	0.0
47.5°	140.9	98.7	52.3	0.0
45°	149.6	103.1	55.2	0.0
42.5°	156.8	106.0	58.1	0.0
40°	164.1	108.9	59.5	0.0
37.5°	171.4	111.8	62.4	0.0
35°	178.6	114.7	63.9	0.0
32.5°	184.4	117.6	65.3	0.0
30°	190.2	120.5	66.8	0.0
27.5°	196.0	122.0	68.3	0.0
25°	200.4	124.9	69.7	0.0
22.5°	204.8	126.3	71.2	0.0
20°	207.7	127.8	72.6	0.0
17.5°	212.0	129.2	74.1	0.0
15°	213.5	130.7	77.0	0.0
12.5°	216.4	132.1	77.0	0.0
10°	217.8	133.6	77.0	0.0
7.5°	220.7	133.6	77.0	0.0
5°	219.3	133.6	77.0	0.0
2.5°	219.3	133.6	77.0	0.0
0°	217.8	133.6	77.0	0.0

(END OF REPORT)