

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: P628384

Luminaire Tested: **IFLD-S-SA2C-830-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628384
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

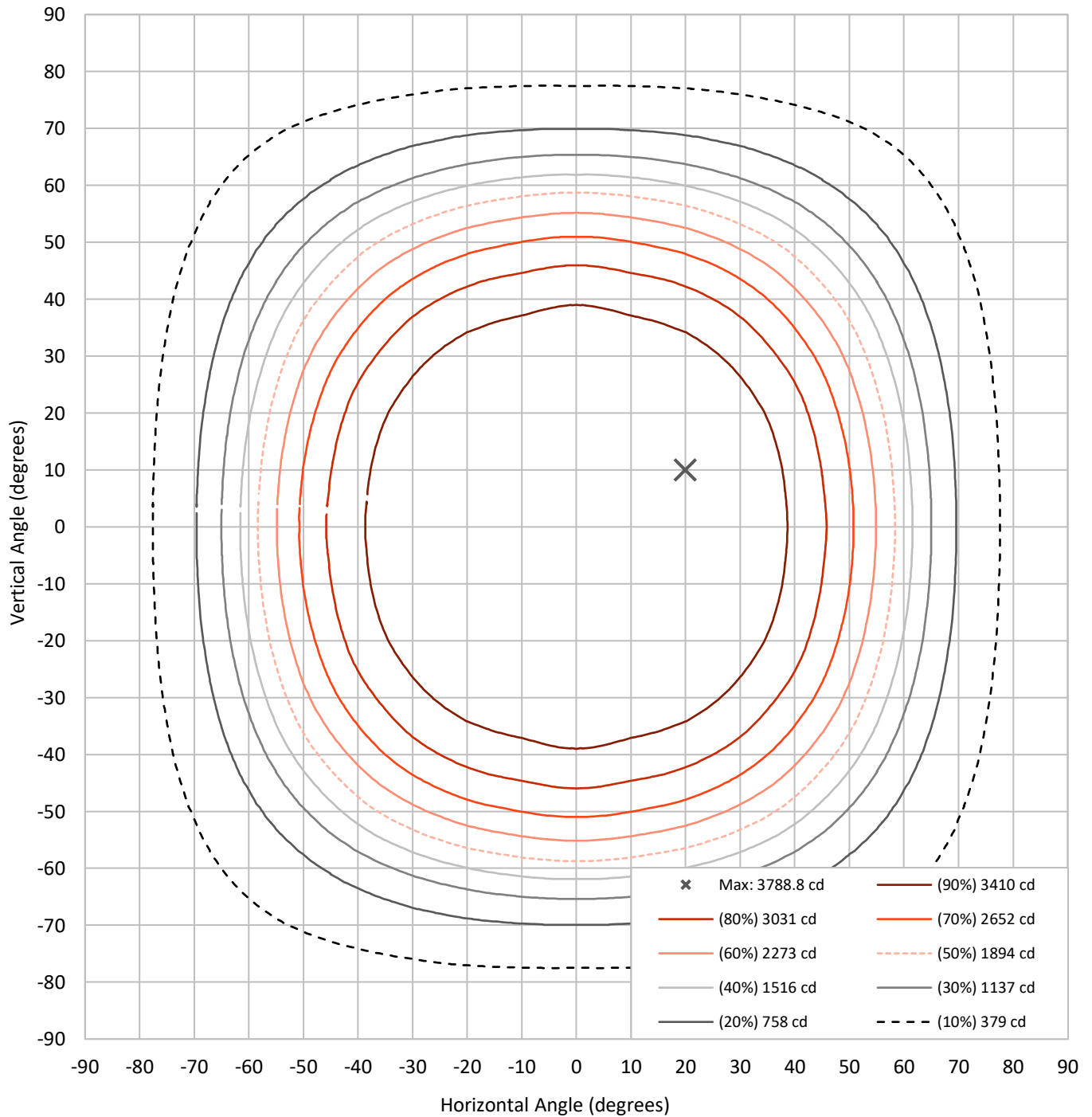
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11623.4 lumens	Max Intensity:	3788.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	107.4 lumens/watt		
Luminous Opening:	Rectangular (W 1' 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:	7132.4 lumens	Field Lumens:	8550.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	108.2		
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: P628384
CATALOG NUMBER: IFLD-S-SA2C-830-U-LAM

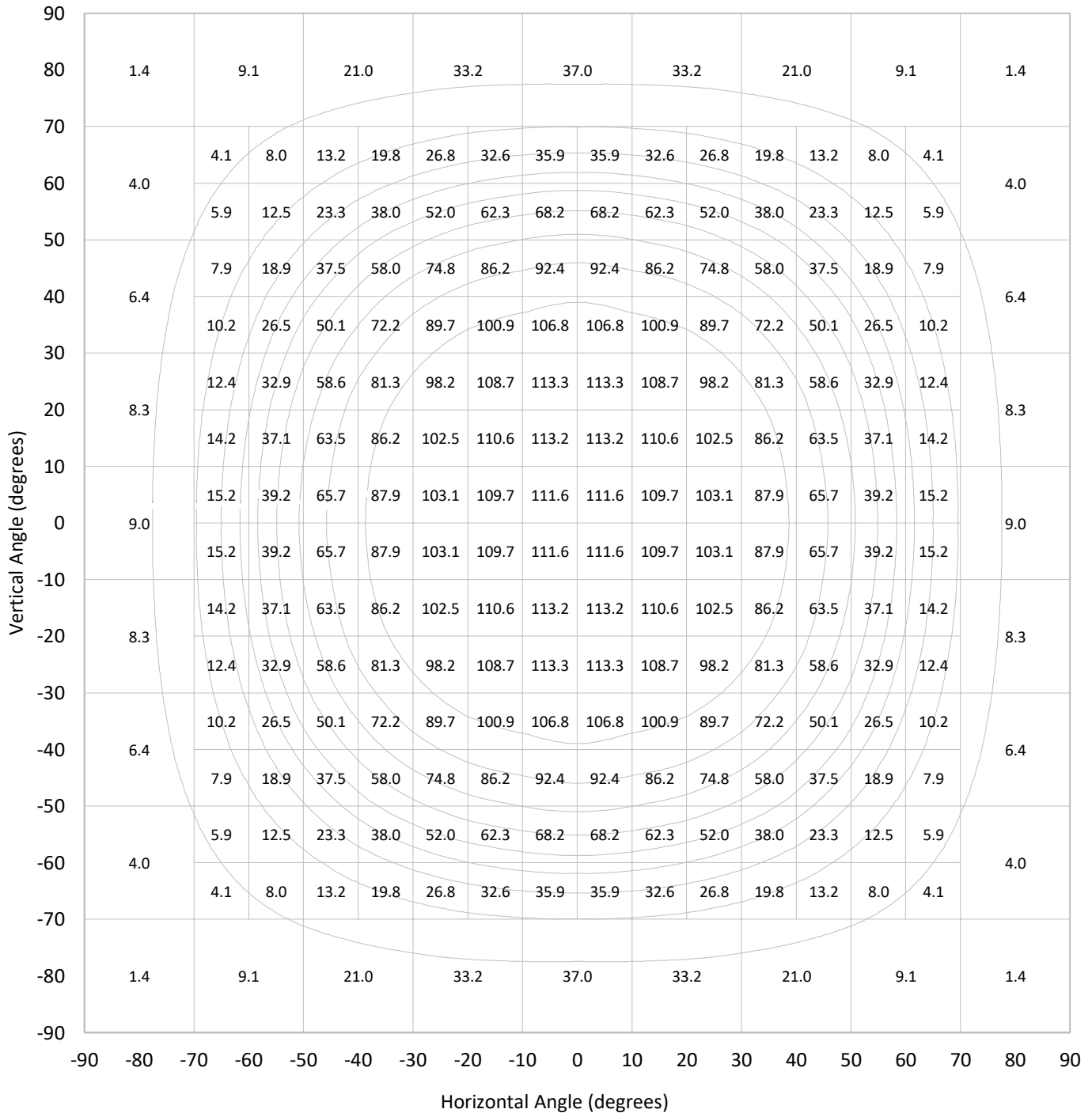
Iso-Candela Plot





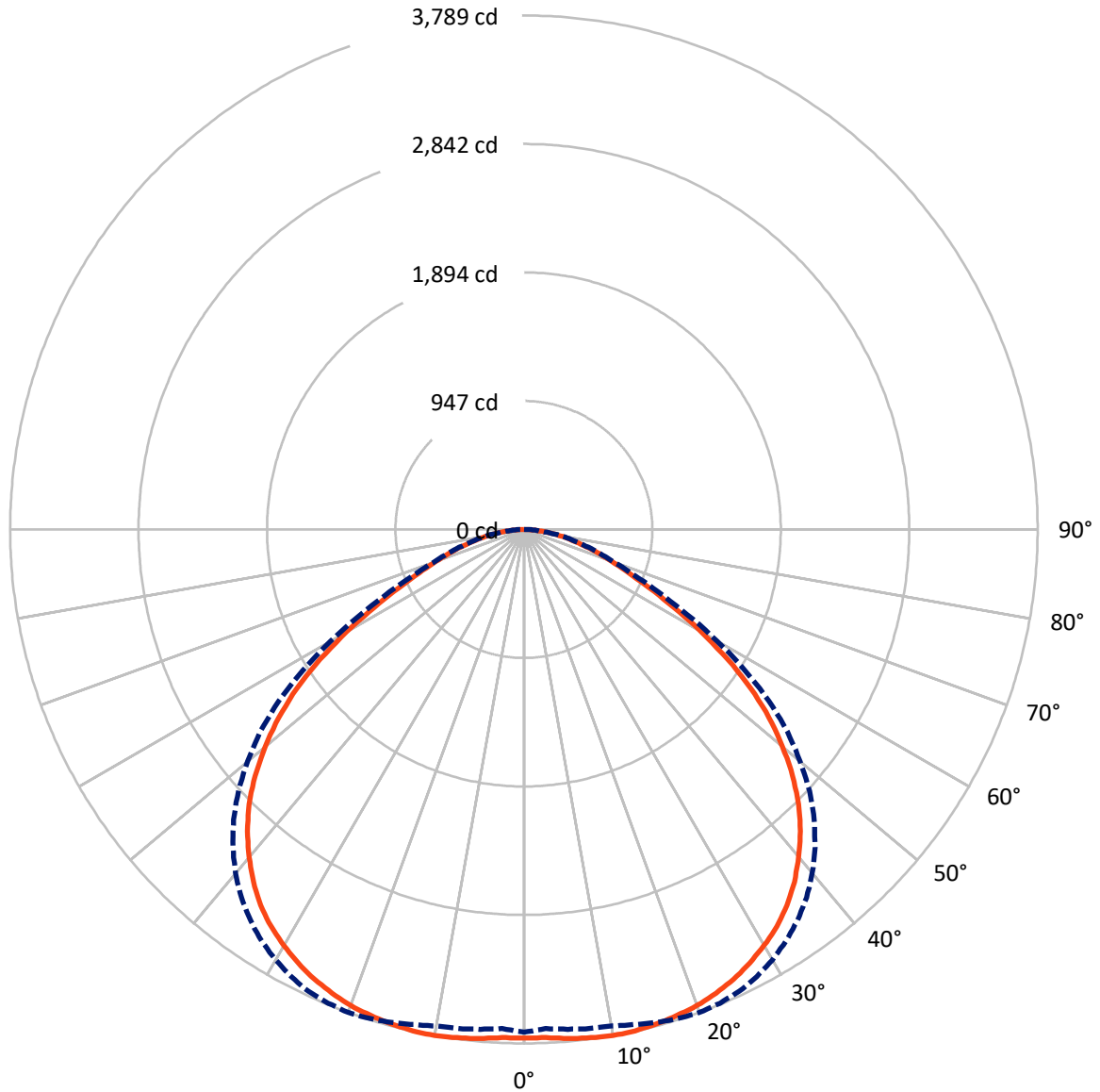
REPORT NUMBER: P628384
 CATALOG NUMBER: IFLD-S-SA2C-830-U-LAM

Lumen Table



REPORT NUMBER: P628384
CATALOG NUMBER: IFLD-S-SA2C-830-U-LAM

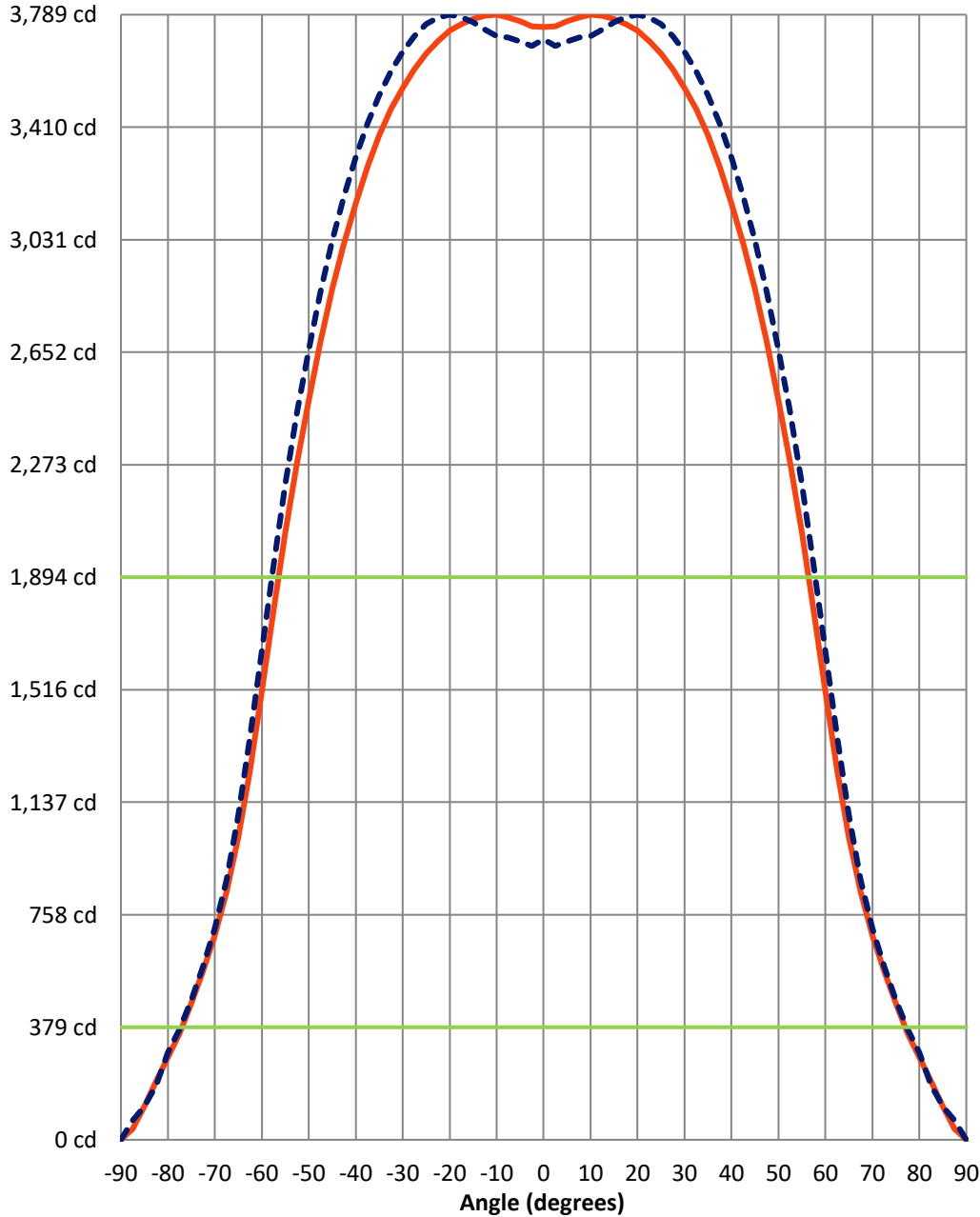
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628384
 CATALOG NUMBER: IFLD-S-SA2C-830-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 7132.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 8550.5
 Efficiency: 73.6%

Spill:
 Lumens: 3072.9
 Efficiency: 26.4%

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



REPORT NUMBER: P628384
 CATALOG NUMBER: IFLD-S-SA2C-830-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°	30.6	33.0	34.2	35.5	36.7	37.9	39.1	37.9	36.7	36.7	35.5
85°	81.9	84.4	85.6	94.2	102.7	107.6	113.7	112.5	112.5	111.3	110.1
82.5°	163.9	171.2	177.3	185.9	190.8	198.1	203.0	199.3	196.9	192.0	188.3
80°	291.1	293.5	294.7	296.0	289.8	288.6	286.2	282.5	277.6	271.5	265.4
77.5°	370.6	373.0	375.5	373.0	371.8	370.6	366.9	363.2	358.3	353.4	346.1
75°	490.4	490.4	490.4	486.7	484.3	480.6	474.5	468.4	459.8	450.1	439.0
72.5°	617.6	616.4	615.2	607.8	601.7	594.4	585.8	578.5	568.7	557.7	543.0
70°	750.9	753.4	754.6	744.8	737.5	727.7	716.7	703.2	688.5	672.6	651.8
67.5°	934.4	931.9	929.5	916.0	906.2	892.8	876.9	857.3	835.3	810.8	781.5
65°	1161.8	1165.5	1158.2	1144.7	1126.4	1104.3	1079.9	1051.8	1018.7	982.0	940.5
62.5°	1437.0	1443.1	1434.5	1417.4	1394.2	1364.8	1330.6	1290.2	1245.0	1193.6	1142.3
60°	1750.1	1748.9	1733.0	1709.7	1679.1	1642.5	1604.5	1560.5	1509.1	1449.2	1386.9
57.5°	2037.5	2035.0	2015.5	1992.2	1961.6	1922.5	1882.2	1835.7	1781.9	1718.3	1646.1
55°	2295.5	2293.1	2273.5	2249.0	2217.2	2178.1	2141.4	2097.4	2044.8	1977.5	1900.5
52.5°	2524.2	2525.4	2508.3	2481.4	2447.2	2409.3	2373.8	2329.8	2279.6	2212.4	2137.8
50°	2734.6	2733.3	2715.0	2690.5	2658.7	2622.1	2586.6	2542.6	2490.0	2425.2	2353.0
47.5°	2930.2	2927.8	2907.0	2880.1	2847.1	2815.3	2782.3	2743.1	2688.1	2623.3	2551.1
45°	3094.1	3089.2	3068.4	3042.8	3011.0	2982.8	2953.5	2924.1	2865.4	2805.5	2737.0
42.5°	3234.8	3233.5	3212.7	3187.1	3155.3	3130.8	3103.9	3067.2	3018.3	2963.3	2896.0
40°	3369.3	3359.5	3338.7	3314.3	3284.9	3264.1	3237.2	3200.5	3152.8	3099.0	3034.2
37.5°	3469.6	3470.8	3448.8	3421.9	3396.2	3376.6	3352.2	3317.9	3276.3	3223.8	3158.9
35°	3565.0	3558.8	3540.5	3517.3	3494.0	3472.0	3446.3	3417.0	3382.7	3333.8	3272.7
32.5°	3627.3	3635.9	3613.9	3589.4	3576.0	3558.8	3531.9	3501.4	3470.8	3421.9	3366.8
30°	3695.8	3688.5	3671.4	3650.6	3640.8	3629.8	3606.5	3577.2	3541.7	3497.7	3446.3
27.5°	3743.5	3739.8	3719.1	3699.5	3694.6	3684.8	3666.5	3640.8	3605.3	3562.5	3514.8
25°	3764.3	3766.8	3747.2	3736.2	3736.2	3730.1	3715.4	3693.4	3657.9	3618.8	3572.3
22.5°	3774.1	3771.6	3758.2	3755.7	3761.9	3757.0	3750.9	3731.3	3699.5	3667.7	3628.6
20°	3780.2	3763.1	3750.9	3760.6	3768.0	3766.8	3761.9	3749.6	3735.0	3708.1	3673.8
17.5°	3766.8	3755.7	3741.1	3755.7	3771.6	3772.9	3768.0	3760.6	3757.0	3739.8	3709.3
15°	3733.7	3725.2	3727.6	3742.3	3760.6	3766.8	3770.4	3779.0	3774.1	3760.6	3733.7
12.5°	3711.7	3700.7	3711.7	3726.4	3736.2	3739.8	3769.2	3785.1	3785.1	3772.9	3755.7
10°	3705.6	3683.6	3698.3	3711.7	3716.6	3738.6	3763.1	3780.2	3788.8	3779.0	3757.0
7.5°	3693.4	3678.7	3684.8	3690.9	3719.1	3735.0	3748.4	3766.8	3779.0	3777.8	3758.2
5°	3687.3	3668.9	3671.4	3697.0	3716.6	3727.6	3732.5	3748.4	3766.8	3770.4	3755.7
2.5°	3671.4	3662.8	3681.1	3683.6	3698.3	3706.8	3711.7	3726.4	3749.6	3758.2	3752.1
0°	3662.8	3650.6	3638.3	3648.1	3672.6	3690.9	3698.3	3720.3	3747.2	3755.7	3742.3



REPORT NUMBER: P628384
 CATALOG NUMBER: IFLD-S-SA2C-830-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°	34.2	33.0	31.8	30.6	31.8	31.8	31.8	30.6	31.8	30.6	30.6
85°	106.4	101.5	97.8	92.9	88.1	84.4	79.5	74.6	73.4	72.2	69.7
82.5°	183.4	177.3	171.2	163.9	156.5	148.0	139.4	129.6	127.2	124.7	121.1
80°	258.0	249.5	240.9	232.4	225.0	216.5	206.7	195.7	188.3	182.2	174.9
77.5°	336.3	324.1	311.9	297.2	288.6	280.1	270.3	259.3	248.3	238.5	227.5
75°	425.6	412.1	399.9	385.2	369.3	353.4	337.5	322.9	307.0	292.3	277.6
72.5°	524.7	505.1	485.5	467.2	447.6	428.0	407.2	387.7	368.1	348.5	327.8
70°	628.6	604.1	579.7	555.2	529.5	503.9	479.4	454.9	430.5	404.8	381.6
67.5°	750.9	722.8	691.0	656.7	618.8	585.8	554.0	524.7	495.3	466.0	436.6
65°	903.8	864.6	821.8	775.4	731.3	687.3	640.8	596.8	562.6	528.3	495.3
62.5°	1092.1	1037.1	977.2	917.2	863.4	805.9	752.1	694.6	640.8	591.9	551.6
60°	1317.1	1242.5	1169.2	1092.1	1017.5	939.2	870.8	799.8	732.6	672.6	613.9
57.5°	1565.4	1478.6	1390.5	1296.4	1194.8	1103.1	1010.2	917.2	837.7	758.2	692.2
55°	1817.3	1725.6	1626.6	1520.2	1408.9	1291.5	1165.5	1061.5	952.7	859.7	774.1
52.5°	2057.0	1961.6	1858.9	1761.1	1627.8	1493.2	1355.1	1218.1	1090.9	972.3	868.3
50°	2271.1	2178.1	2079.1	1965.3	1841.8	1698.7	1544.6	1390.5	1240.1	1100.7	971.0
47.5°	2466.7	2376.2	2277.2	2163.4	2050.9	1891.9	1736.6	1566.6	1399.1	1238.9	1087.2
45°	2650.2	2558.5	2455.7	2346.9	2217.2	2075.4	1915.2	1744.0	1564.2	1384.4	1209.5
42.5°	2816.5	2724.8	2620.8	2508.3	2379.9	2239.3	2083.9	1911.5	1730.5	1534.8	1342.8
40°	2962.0	2872.8	2772.5	2655.1	2535.2	2387.2	2234.4	2070.5	1883.4	1686.5	1474.9
37.5°	3089.2	3006.1	2907.0	2790.8	2663.6	2531.6	2373.8	2209.9	2041.1	1827.1	1610.7
35°	3201.7	3124.7	3023.2	2913.1	2788.4	2649.0	2501.0	2340.8	2158.5	1958.0	1747.6
32.5°	3299.6	3221.3	3128.4	3018.3	2897.2	2766.4	2614.7	2453.3	2280.8	2076.6	1847.9
30°	3382.7	3306.9	3218.9	3114.9	2998.7	2869.1	2721.1	2558.5	2382.4	2179.3	1953.1
27.5°	3454.9	3382.7	3297.1	3200.5	3089.2	2964.5	2815.3	2651.4	2471.6	2276.0	2049.7
25°	3517.3	3447.6	3368.1	3276.3	3166.3	3044.0	2903.3	2732.1	2552.3	2355.4	2131.6
22.5°	3573.5	3506.3	3426.8	3337.5	3237.2	3114.9	2973.0	2803.1	2620.8	2426.4	2206.2
20°	3623.7	3561.3	3483.0	3391.3	3291.0	3167.5	3026.9	2865.4	2682.0	2491.2	2273.5
17.5°	3664.0	3609.0	3530.7	3434.1	3333.8	3214.0	3077.0	2929.0	2734.6	2546.2	2329.8
15°	3692.2	3638.3	3567.4	3469.6	3371.7	3253.1	3116.1	2963.3	2782.3	2590.3	2376.2
12.5°	3711.7	3654.2	3588.2	3497.7	3399.9	3282.5	3149.2	2998.7	2822.6	2629.4	2416.6
10°	3716.6	3664.0	3598.0	3517.3	3421.9	3308.1	3177.3	3028.1	2855.6	2660.0	2449.6
7.5°	3719.1	3668.9	3609.0	3531.9	3437.8	3327.7	3198.1	3051.3	2880.1	2685.6	2474.1
5°	3717.8	3670.1	3616.3	3541.7	3447.6	3338.7	3211.5	3067.2	2897.2	2702.8	2492.4
2.5°	3714.2	3671.4	3621.2	3549.1	3458.6	3350.9	3225.0	3085.6	2915.6	2717.4	2507.1
0°	3724.0	3687.3	3623.7	3546.6	3461.0	3350.9	3223.8	3088.0	2918.0	2716.2	2505.9



REPORT NUMBER: P628384
 CATALOG NUMBER: IFLD-S-SA2C-830-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°	30.6	29.4	29.4	28.1	26.9	25.7	23.2	22.0	19.6	15.9	12.2
85°	66.0	62.4	58.7	56.3	53.8	51.4	47.7	44.0	39.1	31.8	24.5
82.5°	116.2	108.8	101.5	92.9	85.6	78.3	72.2	66.0	58.7	47.7	36.7
80°	166.3	155.3	144.3	132.1	121.1	108.8	97.8	88.1	78.3	63.6	48.9
77.5°	216.5	201.8	185.9	171.2	155.3	139.4	123.5	110.1	95.4	78.3	61.1
75°	262.9	245.8	231.1	210.4	190.8	170.0	149.2	130.9	112.5	91.7	73.4
72.5°	309.4	287.4	266.6	247.0	225.0	199.3	176.1	152.9	129.6	105.2	83.2
70°	355.9	329.0	303.3	280.1	255.6	229.9	201.8	174.9	146.8	117.4	91.7
67.5°	403.6	373.0	343.7	314.3	286.2	256.8	227.5	196.9	163.9	129.6	101.5
65°	456.2	418.3	382.8	349.8	316.7	285.0	251.9	218.9	182.2	143.1	110.1
62.5°	508.8	467.2	425.6	384.0	347.3	311.9	276.4	239.7	199.3	157.8	118.6
60°	565.0	517.3	469.6	423.1	377.9	338.8	299.6	260.5	217.7	171.2	127.2
57.5°	627.4	569.9	516.1	463.5	412.1	365.7	322.9	281.3	233.6	184.7	137.0
55°	698.3	627.4	563.8	505.1	448.8	392.6	346.1	303.3	251.9	198.1	148.0
52.5°	772.9	691.0	613.9	547.9	488.0	424.4	368.1	320.4	270.3	211.6	157.8
50°	859.7	755.8	670.2	589.5	522.2	456.2	391.4	340.0	288.6	227.5	167.5
47.5°	949.0	834.1	726.4	638.4	558.9	486.7	418.3	357.1	305.7	242.1	177.3
45°	1053.0	908.7	790.0	686.1	594.4	518.5	445.2	375.5	320.4	256.8	187.1
42.5°	1153.3	996.7	856.1	738.7	634.7	549.1	469.6	395.0	335.1	271.5	195.7
40°	1271.9	1084.8	919.7	788.8	675.1	578.5	494.1	415.8	348.5	285.0	204.2
37.5°	1385.6	1174.1	996.7	843.9	714.2	607.8	518.5	435.4	360.8	298.4	215.2
35°	1498.1	1273.1	1070.1	895.2	754.6	640.8	543.0	453.7	373.0	309.4	225.0
32.5°	1605.8	1366.1	1144.7	952.7	798.6	671.4	565.0	470.8	385.2	319.2	234.8
30°	1706.0	1454.1	1218.1	1011.4	839.0	699.5	585.8	488.0	399.9	327.8	244.6
27.5°	1797.8	1539.7	1291.5	1066.4	876.9	725.2	607.8	503.9	412.1	336.3	253.2
25°	1880.9	1616.8	1358.7	1116.6	911.1	753.4	628.6	519.8	423.1	343.7	260.5
22.5°	1959.2	1687.7	1419.9	1166.7	952.7	781.5	648.2	534.4	434.2	351.0	267.8
20°	2027.7	1752.5	1478.6	1216.9	989.4	807.2	665.3	547.9	443.9	355.9	275.2
17.5°	2082.7	1810.0	1531.2	1260.9	1021.2	829.2	680.0	560.1	452.5	362.0	280.1
15°	2131.6	1858.9	1575.2	1298.8	1049.3	847.5	693.4	569.9	459.8	365.7	286.2
12.5°	2173.2	1900.5	1613.1	1331.8	1073.8	863.4	704.4	577.2	466.0	369.3	289.8
10°	2207.5	1933.5	1644.9	1357.5	1093.3	875.6	713.0	584.6	470.8	373.0	293.5
7.5°	2233.1	1958.0	1668.1	1379.5	1109.2	884.2	720.3	589.5	475.7	375.5	299.6
5°	2252.7	1978.8	1686.5	1394.2	1121.5	896.4	728.9	595.6	480.6	377.9	299.6
2.5°	2267.4	1995.9	1701.2	1406.4	1131.2	894.0	728.9	594.4	480.6	377.9	298.4
0°	2264.9	1997.1	1699.9	1406.4	1131.2	891.5	728.9	593.1	480.6	377.9	298.4



REPORT NUMBER: P628384
 CATALOG NUMBER: IFLD-S-SA2C-830-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.6	6.1	2.4	0.0
85°	18.3	12.2	6.1	0.0
82.5°	26.9	17.1	8.6	0.0
80°	35.5	23.2	11.0	0.0
77.5°	45.2	29.4	14.7	0.0
75°	53.8	34.2	17.1	0.0
72.5°	62.4	40.4	19.6	0.0
70°	69.7	45.2	22.0	0.0
67.5°	77.0	51.4	25.7	0.0
65°	83.2	56.3	28.1	0.0
62.5°	88.1	62.4	30.6	0.0
60°	94.2	67.3	33.0	0.0
57.5°	99.1	70.9	35.5	0.0
55°	104.0	73.4	37.9	0.0
52.5°	108.8	77.0	40.4	0.0
50°	113.7	80.7	42.8	0.0
47.5°	118.6	83.2	44.0	0.0
45°	126.0	86.8	46.5	0.0
42.5°	132.1	89.3	48.9	0.0
40°	138.2	91.7	50.1	0.0
37.5°	144.3	94.2	52.6	0.0
35°	150.4	96.6	53.8	0.0
32.5°	155.3	99.1	55.0	0.0
30°	160.2	101.5	56.3	0.0
27.5°	165.1	102.7	57.5	0.0
25°	168.8	105.2	58.7	0.0
22.5°	172.4	106.4	59.9	0.0
20°	174.9	107.6	61.1	0.0
17.5°	178.6	108.8	62.4	0.0
15°	179.8	110.1	64.8	0.0
12.5°	182.2	111.3	64.8	0.0
10°	183.4	112.5	64.8	0.0
7.5°	185.9	112.5	64.8	0.0
5°	184.7	112.5	64.8	0.0
2.5°	184.7	112.5	64.8	0.0
0°	183.4	112.5	64.8	0.0

(END OF REPORT)