

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: P628443

Luminaire Tested: **IFLD-S-SA2D-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628443
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10301.3 lumens	Max Intensity:	3357.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	83.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

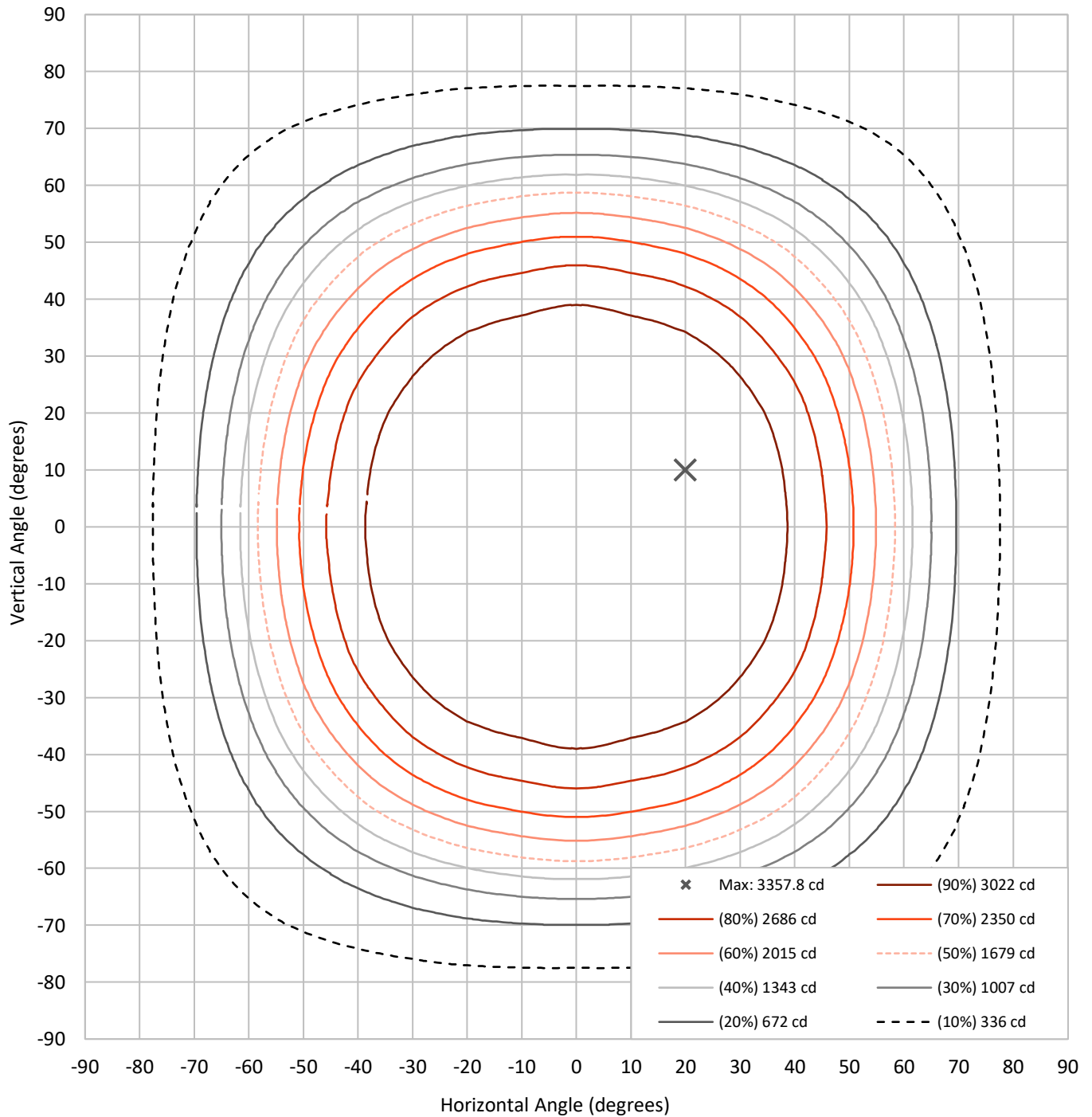
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6321.1 lumens	Field Lumens:	7577.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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: P628443
CATALOG NUMBER: IFLD-S-SA2D-930-U-LAM

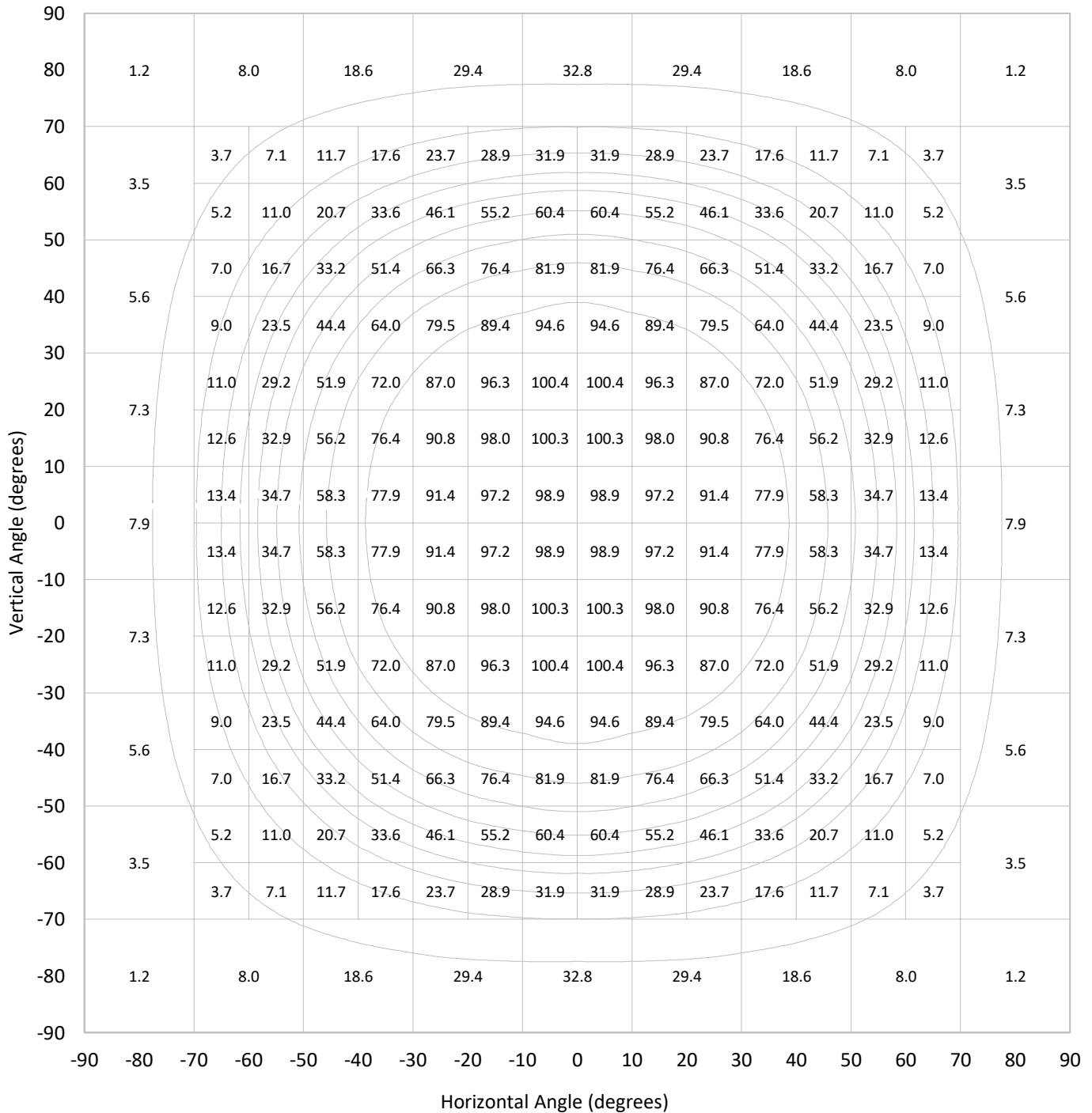
Iso-Candela Plot





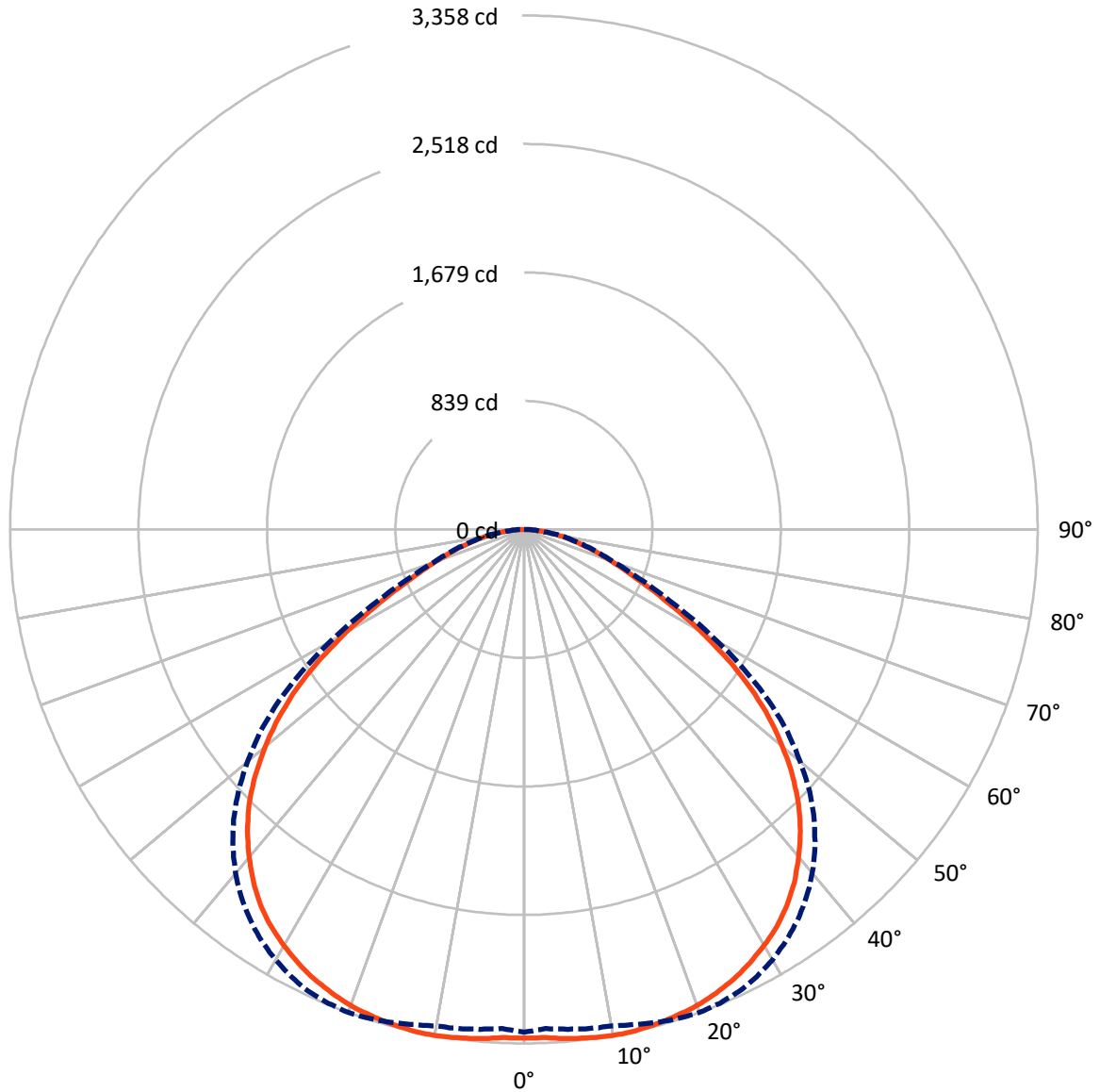
REPORT NUMBER: P628443
 CATALOG NUMBER: IFLD-S-SA2D-930-U-LAM

Lumen Table



REPORT NUMBER: P628443
CATALOG NUMBER: IFLD-S-SA2D-930-U-LAM

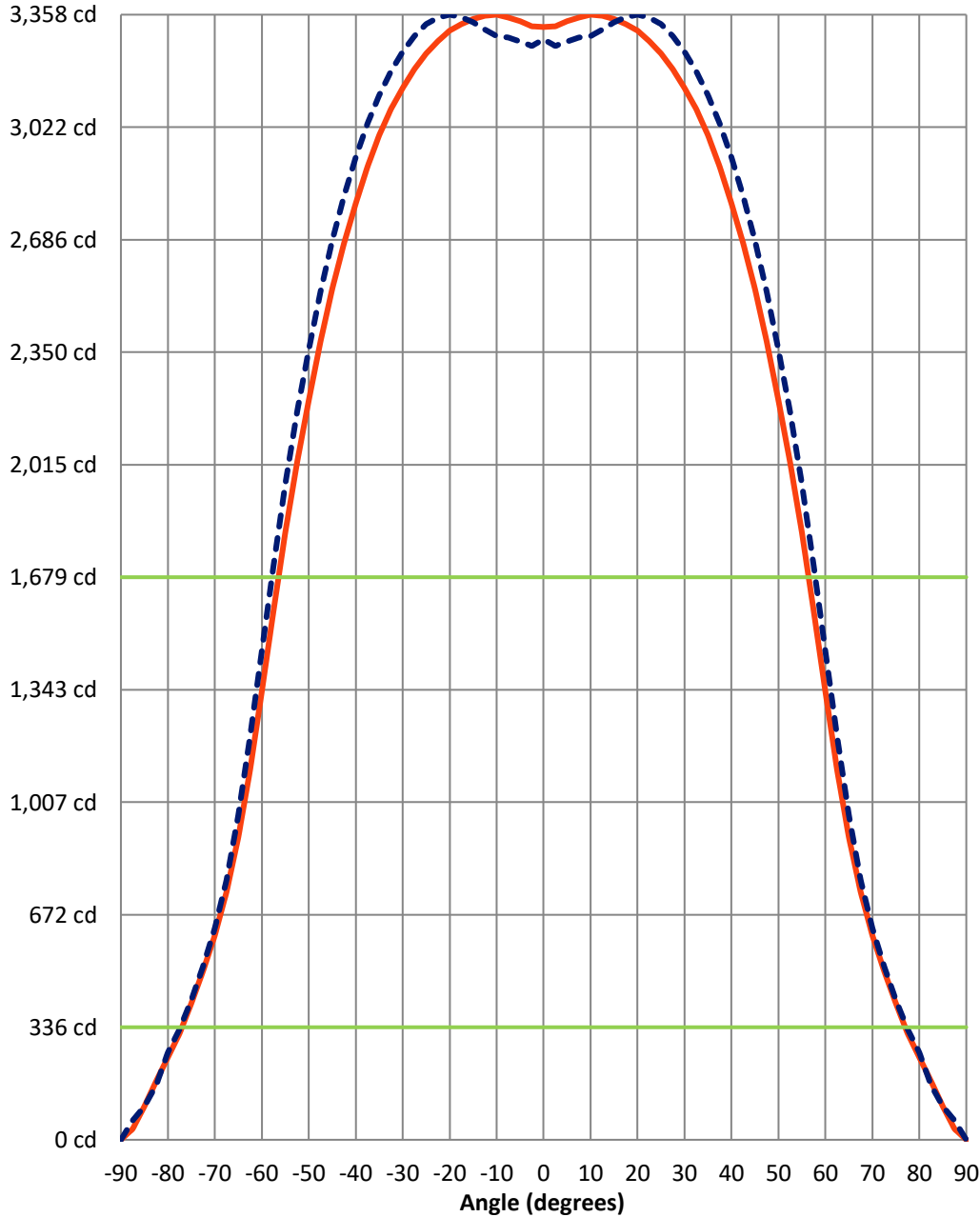
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628443
 CATALOG NUMBER: IFLD-S-SA2D-930-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 6321.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 7577.9
 Efficiency: 73.6%

Spill:
 Lumens: 2723.4
 Efficiency: 26.4%

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



REPORT NUMBER: P628443
 CATALOG NUMBER: IFLD-S-SA2D-930-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°	27.1	29.3	30.3	31.4	32.5	33.6	34.7	33.6	32.5	32.5	31.4
85°	72.6	74.8	75.9	83.5	91.0	95.4	100.8	99.7	99.7	98.6	97.5
82.5°	145.2	151.7	157.2	164.7	169.1	175.6	179.9	176.7	174.5	170.2	166.9
80°	258.0	260.1	261.2	262.3	256.9	255.8	253.6	250.4	246.0	240.6	235.2
77.5°	328.4	330.6	332.7	330.6	329.5	328.4	325.2	321.9	317.6	313.2	306.7
75°	434.6	434.6	434.6	431.4	429.2	426.0	420.5	415.1	407.5	398.9	389.1
72.5°	547.3	546.3	545.2	538.7	533.3	526.8	519.2	512.7	504.0	494.2	481.2
70°	665.5	667.7	668.7	660.1	653.6	644.9	635.1	623.2	610.2	596.1	577.7
67.5°	828.1	825.9	823.7	811.8	803.1	791.2	777.1	759.8	740.3	718.6	692.6
65°	1029.7	1032.9	1026.4	1014.5	998.2	978.7	957.0	932.1	902.9	870.3	833.5
62.5°	1273.5	1279.0	1271.4	1256.2	1235.6	1209.6	1179.2	1143.5	1103.4	1057.8	1012.3
60°	1551.0	1549.9	1535.8	1515.2	1488.1	1455.6	1422.0	1383.0	1337.5	1284.4	1229.1
57.5°	1805.7	1803.5	1786.2	1765.6	1738.5	1703.8	1668.1	1626.9	1579.2	1522.8	1458.9
55°	2034.4	2032.2	2014.9	1993.2	1965.0	1930.4	1897.8	1858.8	1812.2	1752.6	1684.3
52.5°	2237.1	2238.2	2223.0	2199.2	2168.8	2135.2	2103.8	2064.8	2020.3	1960.7	1894.6
50°	2423.5	2422.4	2406.2	2384.5	2356.3	2323.8	2292.4	2253.3	2206.7	2149.3	2085.3
47.5°	2596.9	2594.8	2576.3	2552.5	2523.2	2495.0	2465.8	2431.1	2382.3	2324.9	2260.9
45°	2742.2	2737.8	2719.4	2696.6	2668.5	2643.5	2617.5	2591.5	2539.5	2486.4	2425.7
42.5°	2866.8	2865.7	2847.3	2824.5	2796.4	2774.7	2750.8	2718.3	2675.0	2626.2	2566.6
40°	2986.0	2977.4	2958.9	2937.3	2911.3	2892.8	2869.0	2836.5	2794.2	2746.5	2689.1
37.5°	3074.9	3076.0	3056.5	3032.6	3009.9	2992.5	2970.9	2940.5	2903.7	2857.1	2799.6
35°	3159.5	3154.0	3137.8	3117.2	3096.6	3077.1	3054.3	3028.3	2998.0	2954.6	2900.4
32.5°	3214.7	3222.3	3202.8	3181.1	3169.2	3154.0	3130.2	3103.1	3076.0	3032.6	2983.9
30°	3275.4	3268.9	3253.8	3235.3	3226.7	3216.9	3196.3	3170.3	3138.9	3099.8	3054.3
27.5°	3317.7	3314.4	3296.0	3278.7	3274.3	3265.7	3249.4	3226.7	3195.2	3157.3	3115.0
25°	3336.1	3338.3	3321.0	3311.2	3311.2	3305.8	3292.8	3273.3	3241.8	3207.1	3166.0
22.5°	3344.8	3342.6	3330.7	3328.5	3334.0	3329.6	3324.2	3306.9	3278.7	3250.5	3215.8
20°	3350.2	3335.0	3324.2	3332.9	3339.4	3338.3	3334.0	3323.1	3310.1	3286.3	3255.9
17.5°	3338.3	3328.5	3315.5	3328.5	3342.6	3343.7	3339.4	3332.9	3329.6	3314.4	3287.4
15°	3309.0	3301.4	3303.6	3316.6	3332.9	3338.3	3341.5	3349.1	3344.8	3332.9	3309.0
12.5°	3289.5	3279.8	3289.5	3302.5	3311.2	3314.4	3340.5	3354.5	3354.5	3343.7	3328.5
10°	3284.1	3264.6	3277.6	3289.5	3293.9	3313.4	3335.0	3350.2	3357.8	3349.1	3329.6
7.5°	3273.3	3260.3	3265.7	3271.1	3296.0	3310.1	3322.0	3338.3	3349.1	3348.0	3330.7
5°	3267.8	3251.6	3253.8	3276.5	3293.9	3303.6	3307.9	3322.0	3338.3	3341.5	3328.5
2.5°	3253.8	3246.2	3262.4	3264.6	3277.6	3285.2	3289.5	3302.5	3323.1	3330.7	3325.3
0°	3246.2	3235.3	3224.5	3233.2	3254.8	3271.1	3277.6	3297.1	3321.0	3328.5	3316.6



REPORT NUMBER: P628443
 CATALOG NUMBER: IFLD-S-SA2D-930-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°	30.3	29.3	28.2	27.1	28.2	28.2	28.2	27.1	28.2	27.1	27.1
85°	94.3	90.0	86.7	82.4	78.0	74.8	70.5	66.1	65.0	63.9	61.8
82.5°	162.6	157.2	151.7	145.2	138.7	131.1	123.6	114.9	112.7	110.6	107.3
80°	228.7	221.1	213.5	205.9	199.4	191.8	183.2	173.4	166.9	161.5	155.0
77.5°	298.1	287.2	276.4	263.4	255.8	248.2	239.5	229.8	220.0	211.4	201.6
75°	377.2	365.3	354.4	341.4	327.3	313.2	299.1	286.1	272.0	259.0	246.0
72.5°	465.0	447.6	430.3	414.0	396.7	379.4	360.9	343.6	326.2	308.9	290.5
70°	557.1	535.4	513.8	492.1	469.3	446.6	424.9	403.2	381.5	358.8	338.2
67.5°	665.5	640.6	612.4	582.0	548.4	519.2	491.0	465.0	439.0	413.0	386.9
65°	801.0	766.3	728.4	687.2	648.1	609.1	567.9	528.9	498.6	468.2	439.0
62.5°	967.9	919.1	866.0	812.9	765.2	714.3	666.6	615.6	567.9	524.6	488.8
60°	1167.3	1101.2	1036.2	967.9	901.8	832.4	771.7	708.8	649.2	596.1	544.1
57.5°	1387.3	1310.4	1232.3	1148.9	1058.9	977.6	895.3	812.9	742.4	672.0	613.5
55°	1610.6	1529.3	1441.5	1347.2	1248.6	1144.6	1032.9	940.8	844.3	762.0	686.1
52.5°	1823.1	1738.5	1647.5	1560.8	1442.6	1323.4	1200.9	1079.5	966.8	861.7	769.5
50°	2012.7	1930.4	1842.6	1741.8	1632.3	1505.5	1368.9	1232.3	1099.0	975.5	860.6
47.5°	2186.1	2105.9	2018.1	1917.4	1817.6	1676.7	1539.1	1388.4	1239.9	1098.0	963.6
45°	2348.7	2267.4	2176.4	2079.9	1965.0	1839.3	1697.3	1545.6	1386.3	1226.9	1071.9
42.5°	2496.1	2414.8	2322.7	2223.0	2109.2	1984.5	1846.9	1694.1	1533.7	1360.2	1190.1
40°	2625.1	2546.0	2457.1	2353.1	2246.8	2115.7	1980.2	1835.0	1669.1	1494.6	1307.1
37.5°	2737.8	2664.1	2576.3	2473.4	2360.6	2243.6	2103.8	1958.5	1809.0	1619.3	1427.4
35°	2837.5	2769.3	2679.3	2581.8	2471.2	2347.6	2216.5	2074.5	1913.0	1735.3	1548.8
32.5°	2924.3	2854.9	2772.5	2675.0	2567.7	2451.7	2317.3	2174.2	2021.4	1840.4	1637.7
30°	2998.0	2930.8	2852.7	2760.6	2657.6	2542.7	2411.6	2267.4	2111.4	1931.4	1730.9
27.5°	3061.9	2998.0	2922.1	2836.5	2737.8	2627.3	2495.0	2349.8	2190.5	2017.1	1816.6
25°	3117.2	3055.4	2985.0	2903.7	2806.1	2697.7	2573.1	2421.3	2262.0	2087.5	1889.2
22.5°	3167.0	3107.4	3037.0	2957.9	2869.0	2760.6	2634.9	2484.2	2322.7	2150.4	1955.3
20°	3211.5	3156.2	3086.8	3005.5	2916.7	2807.2	2682.6	2539.5	2376.9	2207.8	2014.9
17.5°	3247.2	3198.5	3129.1	3043.5	2954.6	2848.4	2727.0	2595.8	2423.5	2256.6	2064.8
15°	3272.2	3224.5	3161.6	3074.9	2988.2	2883.1	2761.7	2626.2	2465.8	2295.6	2105.9
12.5°	3289.5	3238.6	3180.0	3099.8	3013.1	2909.1	2790.9	2657.6	2501.6	2330.3	2141.7
10°	3293.9	3247.2	3188.7	3117.2	3032.6	2931.8	2815.9	2683.6	2530.8	2357.4	2171.0
7.5°	3296.0	3251.6	3198.5	3130.2	3046.7	2949.2	2834.3	2704.2	2552.5	2380.2	2192.7
5°	3294.9	3252.7	3205.0	3138.9	3055.4	2958.9	2846.2	2718.3	2567.7	2395.3	2208.9
2.5°	3291.7	3253.8	3209.3	3145.4	3065.2	2969.8	2858.1	2734.6	2583.9	2408.3	2221.9
0°	3300.4	3267.8	3211.5	3143.2	3067.3	2969.8	2857.1	2736.7	2586.1	2407.3	2220.8



REPORT NUMBER: P628443
 CATALOG NUMBER: IFLD-S-SA2D-930-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°	27.1	26.0	26.0	24.9	23.8	22.8	20.6	19.5	17.3	14.1	10.8
85°	58.5	55.3	52.0	49.9	47.7	45.5	42.3	39.0	34.7	28.2	21.7
82.5°	103.0	96.5	90.0	82.4	75.9	69.4	63.9	58.5	52.0	42.3	32.5
80°	147.4	137.7	127.9	117.1	107.3	96.5	86.7	78.0	69.4	56.4	43.4
77.5°	191.8	178.8	164.7	151.7	137.7	123.6	109.5	97.5	84.5	69.4	54.2
75°	233.0	217.9	204.8	186.4	169.1	150.7	132.2	116.0	99.7	81.3	65.0
72.5°	274.2	254.7	236.3	218.9	199.4	176.7	156.1	135.5	114.9	93.2	73.7
70°	315.4	291.6	268.8	248.2	226.5	203.8	178.8	155.0	130.1	104.1	81.3
67.5°	357.7	330.6	304.6	278.6	253.6	227.6	201.6	174.5	145.2	114.9	90.0
65°	404.3	370.7	339.2	310.0	280.7	252.5	223.3	194.0	161.5	126.8	97.5
62.5°	450.9	414.0	377.2	340.3	307.8	276.4	245.0	212.4	176.7	139.8	105.1
60°	500.7	458.5	416.2	375.0	334.9	300.2	265.5	230.9	192.9	151.7	112.7
57.5°	556.0	505.1	457.4	410.8	365.3	324.1	286.1	249.3	207.0	163.7	121.4
55°	618.9	556.0	499.7	447.6	397.8	347.9	306.7	268.8	223.3	175.6	131.1
52.5°	685.0	612.4	544.1	485.6	432.5	376.1	326.2	284.0	239.5	187.5	139.8
50°	762.0	669.8	594.0	522.4	462.8	404.3	346.8	301.3	255.8	201.6	148.5
47.5°	841.1	739.2	643.8	565.8	495.3	431.4	370.7	316.5	271.0	214.6	157.2
45°	933.2	805.3	700.2	608.0	526.8	459.6	394.5	332.7	284.0	227.6	165.8
42.5°	1022.1	883.3	758.7	654.7	562.5	486.7	416.2	350.1	297.0	240.6	173.4
40°	1127.2	961.4	815.1	699.1	598.3	512.7	437.9	368.5	308.9	252.5	181.0
37.5°	1228.0	1040.5	883.3	747.9	633.0	538.7	459.6	385.9	319.7	264.5	190.8
35°	1327.7	1128.3	948.4	793.4	668.7	567.9	481.2	402.1	330.6	274.2	199.4
32.5°	1423.1	1210.7	1014.5	844.3	707.8	595.0	500.7	417.3	341.4	282.9	208.1
30°	1512.0	1288.7	1079.5	896.4	743.5	620.0	519.2	432.5	354.4	290.5	216.8
27.5°	1593.3	1364.6	1144.6	945.1	777.1	642.7	538.7	446.6	365.3	298.1	224.4
25°	1667.0	1432.9	1204.2	989.6	807.5	667.7	557.1	460.6	375.0	304.6	230.9
22.5°	1736.3	1495.7	1258.4	1034.0	844.3	692.6	574.4	473.6	384.8	311.1	237.4
20°	1797.0	1553.2	1310.4	1078.4	876.8	715.3	589.6	485.6	393.4	315.4	243.9
17.5°	1845.8	1604.1	1357.0	1117.5	905.0	734.9	602.6	496.4	401.0	320.8	248.2
15°	1889.2	1647.5	1396.0	1151.1	930.0	751.1	614.5	505.1	407.5	324.1	253.6
12.5°	1926.0	1684.3	1429.6	1180.3	951.6	765.2	624.3	511.6	413.0	327.3	256.9
10°	1956.4	1713.6	1457.8	1203.1	969.0	776.0	631.9	518.1	417.3	330.6	260.1
7.5°	1979.1	1735.3	1478.4	1222.6	983.1	783.6	638.4	522.4	421.6	332.7	265.5
5°	1996.5	1753.7	1494.6	1235.6	993.9	794.5	646.0	527.8	426.0	334.9	265.5
2.5°	2009.5	1768.9	1507.7	1246.4	1002.6	792.3	646.0	526.8	426.0	334.9	264.5
0°	2007.3	1769.9	1506.6	1246.4	1002.6	790.1	646.0	525.7	426.0	334.9	264.5



REPORT NUMBER: P628443
 CATALOG NUMBER: IFLD-S-SA2D-930-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.6	5.4	2.2	0.0
85°	16.3	10.8	5.4	0.0
82.5°	23.8	15.2	7.6	0.0
80°	31.4	20.6	9.8	0.0
77.5°	40.1	26.0	13.0	0.0
75°	47.7	30.3	15.2	0.0
72.5°	55.3	35.8	17.3	0.0
70°	61.8	40.1	19.5	0.0
67.5°	68.3	45.5	22.8	0.0
65°	73.7	49.9	24.9	0.0
62.5°	78.0	55.3	27.1	0.0
60°	83.5	59.6	29.3	0.0
57.5°	87.8	62.9	31.4	0.0
55°	92.1	65.0	33.6	0.0
52.5°	96.5	68.3	35.8	0.0
50°	100.8	71.5	37.9	0.0
47.5°	105.1	73.7	39.0	0.0
45°	111.6	77.0	41.2	0.0
42.5°	117.1	79.1	43.4	0.0
40°	122.5	81.3	44.4	0.0
37.5°	127.9	83.5	46.6	0.0
35°	133.3	85.6	47.7	0.0
32.5°	137.7	87.8	48.8	0.0
30°	142.0	90.0	49.9	0.0
27.5°	146.3	91.0	50.9	0.0
25°	149.6	93.2	52.0	0.0
22.5°	152.8	94.3	53.1	0.0
20°	155.0	95.4	54.2	0.0
17.5°	158.2	96.5	55.3	0.0
15°	159.3	97.5	57.4	0.0
12.5°	161.5	98.6	57.4	0.0
10°	162.6	99.7	57.4	0.0
7.5°	164.7	99.7	57.4	0.0
5°	163.7	99.7	57.4	0.0
2.5°	163.7	99.7	57.4	0.0
0°	162.6	99.7	57.4	0.0

(END OF REPORT)