

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: P628209

Luminaire Tested: **IFLD-S-SA2B-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628209
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10700.3 lumens	Max Intensity:	3487.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	129.9 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

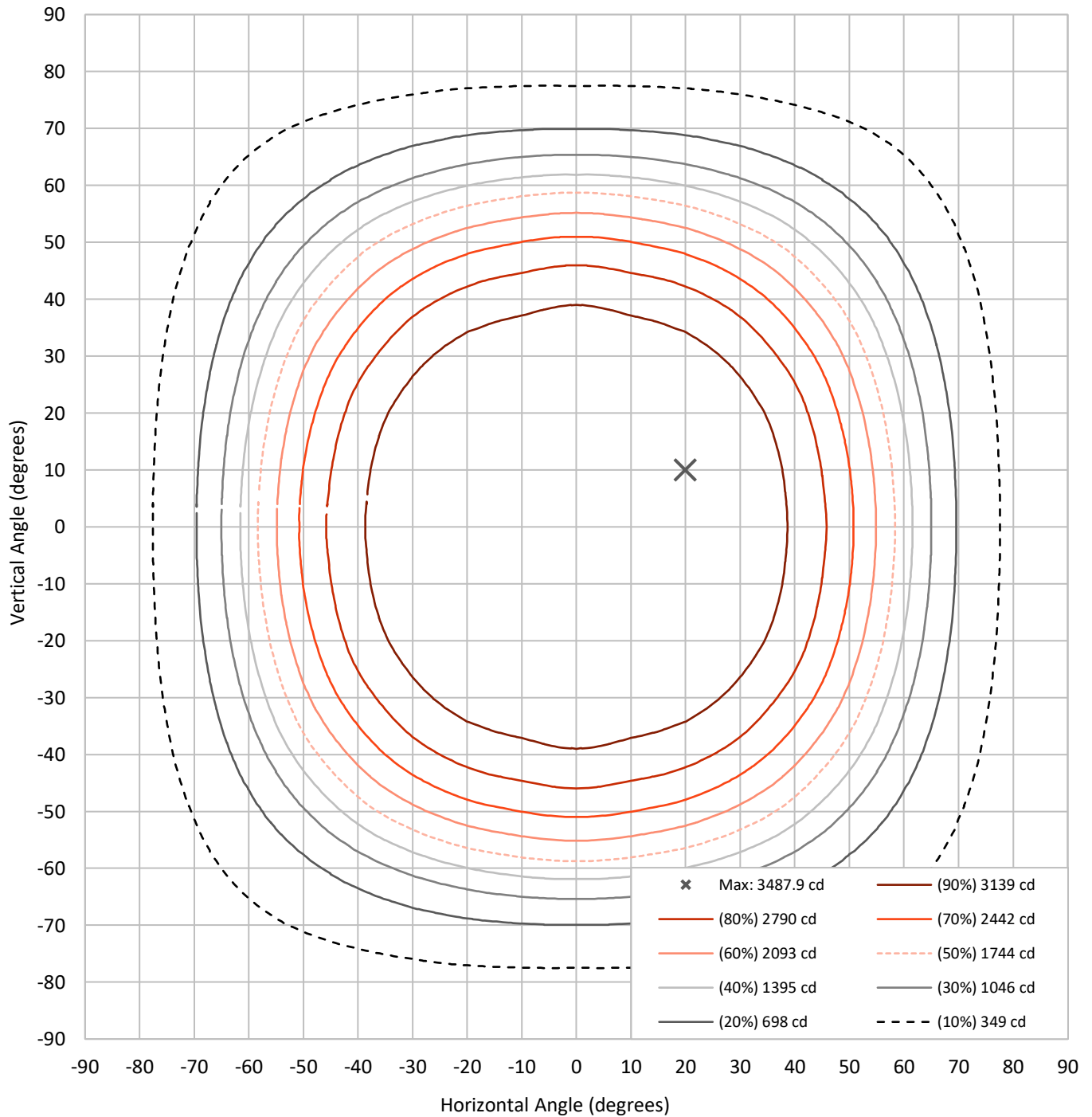
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6565.9 lumens	Field Lumens:	7871.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 82.4
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: P628209
CATALOG NUMBER: IFLD-S-SA2B-730-U-LAM

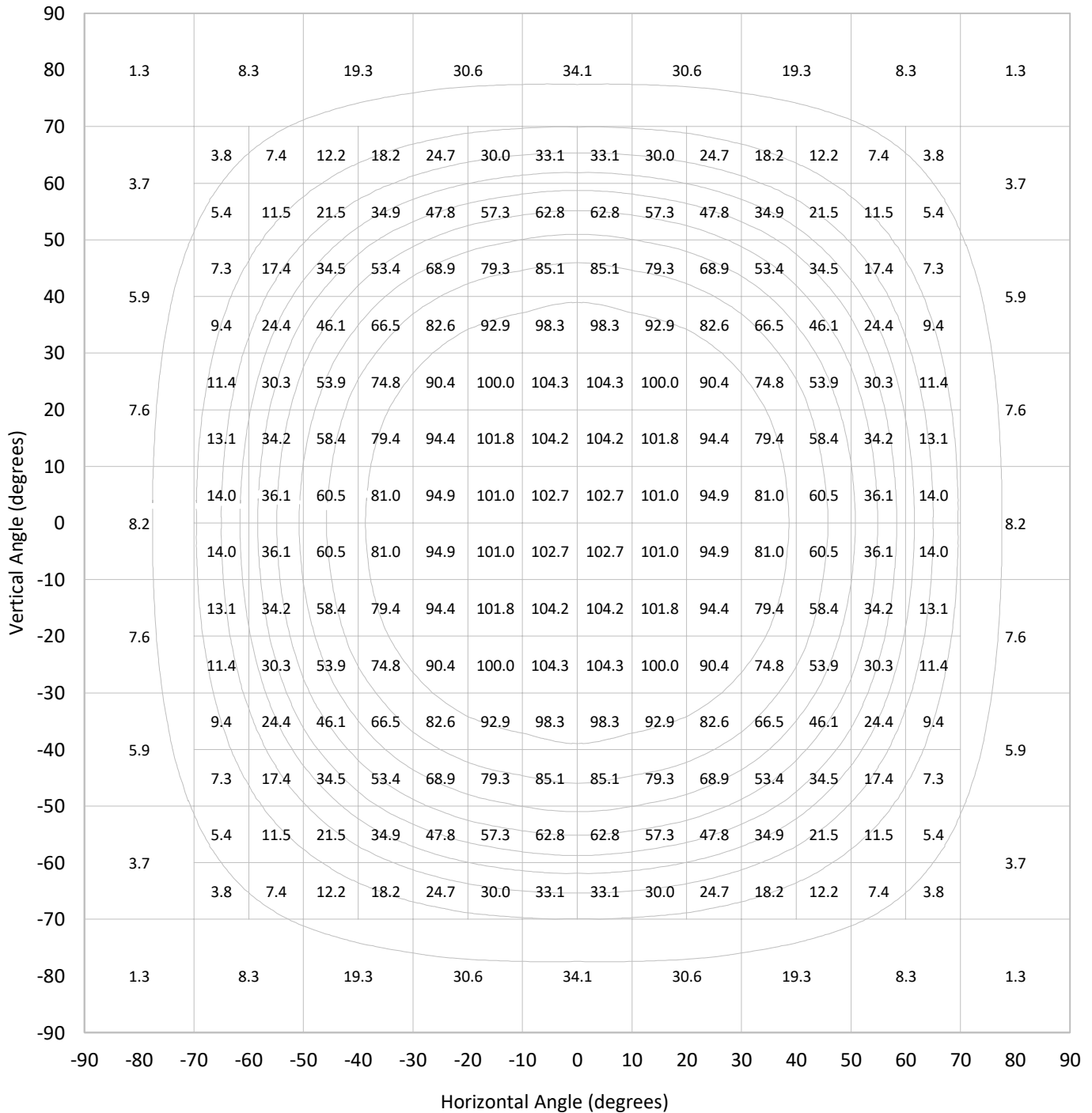
Iso-Candela Plot





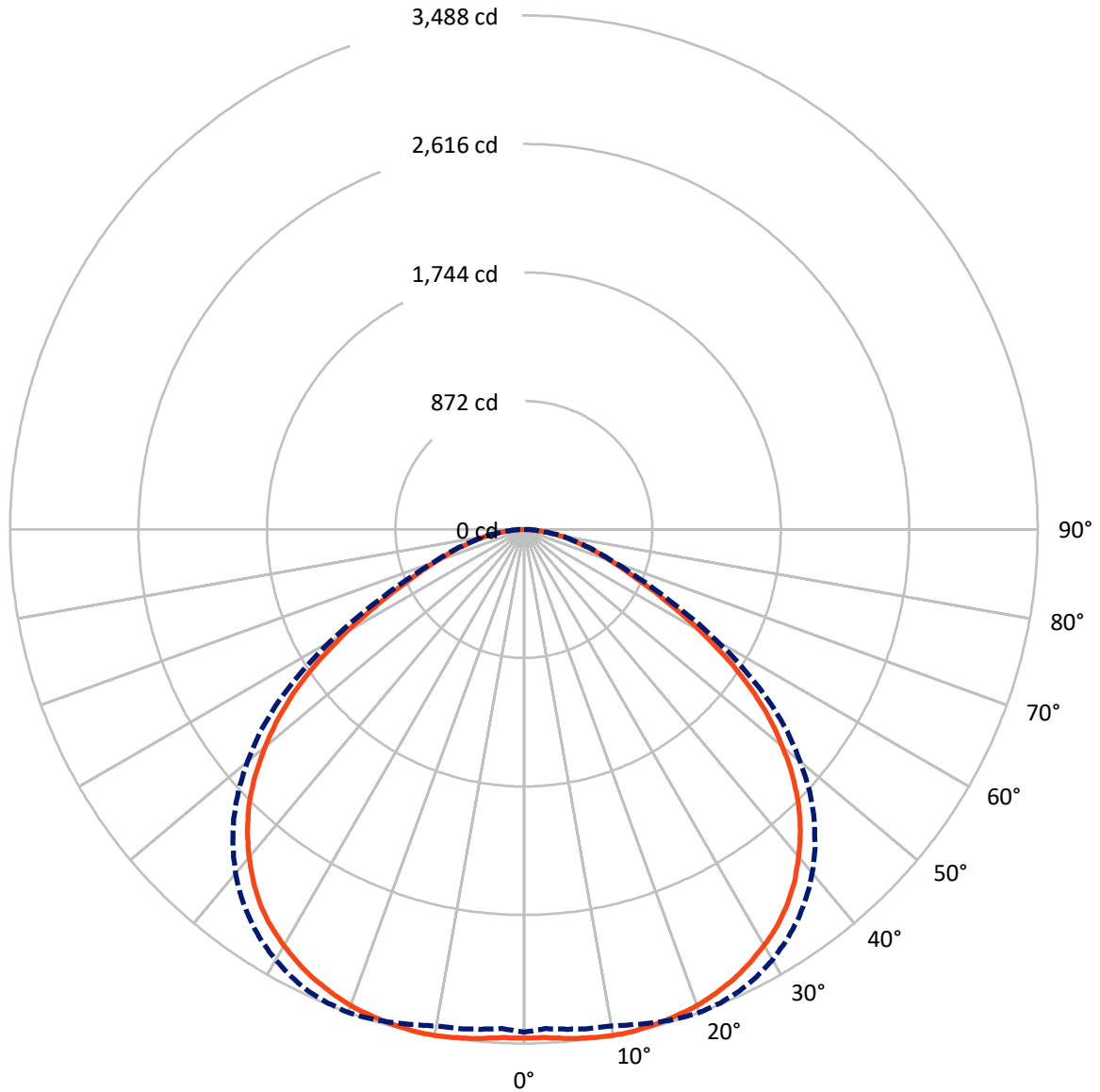
REPORT NUMBER: P628209
 CATALOG NUMBER: IFLD-S-SA2B-730-U-LAM

Lumen Table



REPORT NUMBER: P628209
CATALOG NUMBER: IFLD-S-SA2B-730-U-LAM

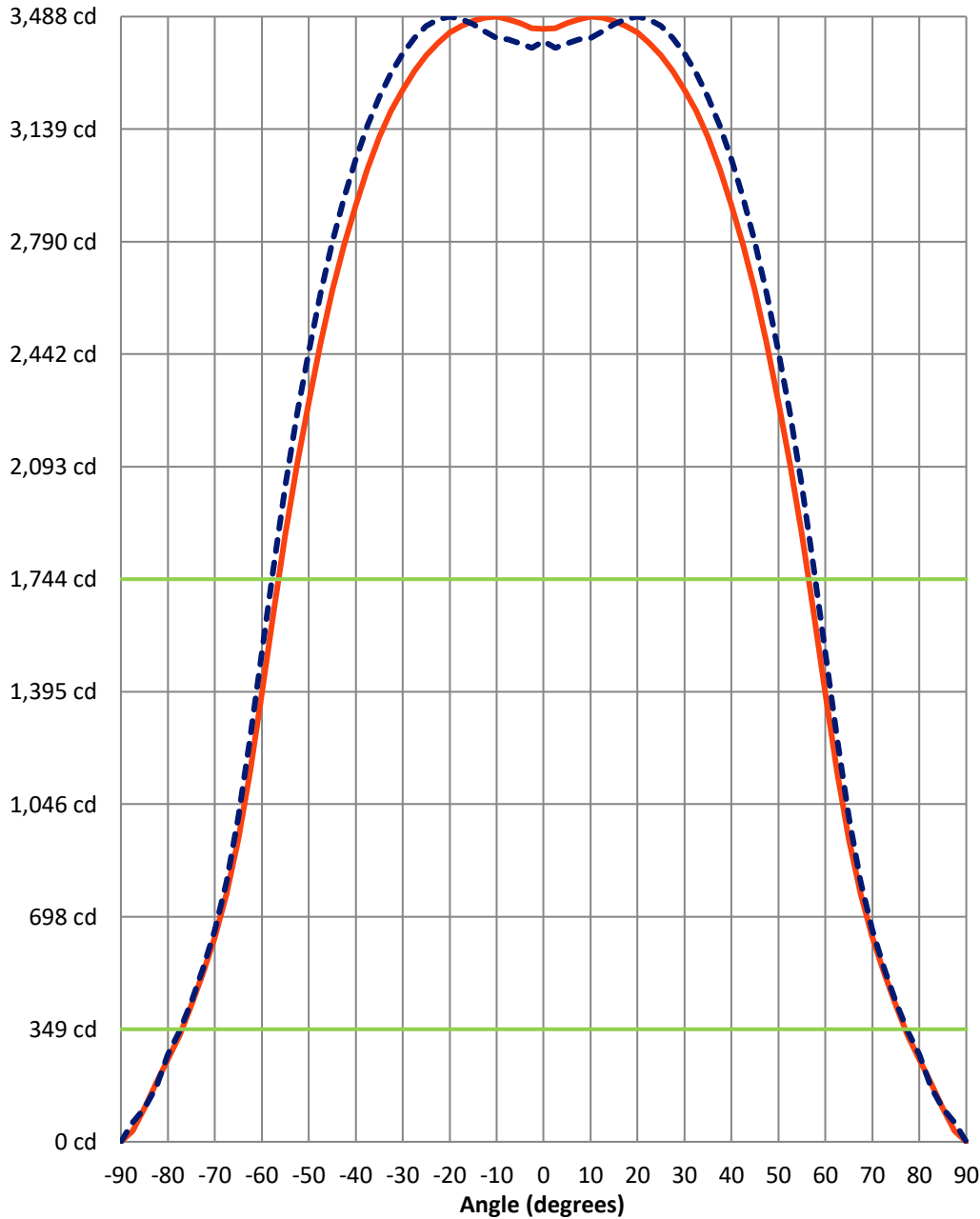
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628209
 CATALOG NUMBER: IFLD-S-SA2B-730-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 6565.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 7871.4
 Efficiency: 73.6%

Spill:
 Lumens: 2828.9
 Efficiency: 26.4%

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



REPORT NUMBER: P628209
 CATALOG NUMBER: IFLD-S-SA2B-730-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°	28.1	30.4	31.5	32.6	33.8	34.9	36.0	34.9	33.8	33.8	32.6
85°	75.4	77.7	78.8	86.7	94.6	99.1	104.7	103.6	103.6	102.5	101.3
82.5°	150.9	157.6	163.2	171.1	175.6	182.4	186.9	183.5	181.3	176.8	173.4
80°	268.0	270.2	271.3	272.5	266.8	265.7	263.4	260.1	255.6	249.9	244.3
77.5°	341.1	343.4	345.6	343.4	342.3	341.1	337.8	334.4	329.9	325.4	318.6
75°	451.5	451.5	451.5	448.1	445.8	442.5	436.8	431.2	423.3	414.3	404.2
72.5°	568.6	567.4	566.3	559.5	553.9	547.2	539.3	532.5	523.5	513.4	499.9
70°	691.3	693.5	694.6	685.6	678.9	669.9	659.7	647.4	633.9	619.2	600.1
67.5°	860.1	857.9	855.6	843.3	834.3	821.9	807.2	789.2	769.0	746.4	719.4
65°	1069.6	1072.9	1066.2	1053.8	1036.9	1016.6	994.1	968.2	937.8	904.1	865.8
62.5°	1322.9	1328.5	1320.6	1304.9	1283.5	1256.4	1224.9	1187.8	1146.1	1098.8	1051.5
60°	1611.1	1610.0	1595.3	1573.9	1545.8	1512.0	1477.1	1436.6	1389.3	1334.1	1276.7
57.5°	1875.7	1873.4	1855.4	1834.0	1805.9	1769.8	1732.7	1689.9	1640.4	1581.8	1515.4
55°	2113.2	2111.0	2092.9	2070.4	2041.2	2005.1	1971.4	1930.8	1882.4	1820.5	1749.6
52.5°	2323.7	2324.9	2309.1	2284.3	2252.8	2217.9	2185.3	2144.7	2098.6	2036.7	1968.0
50°	2517.4	2516.3	2499.4	2476.9	2447.6	2413.8	2381.2	2340.6	2292.2	2232.6	2166.1
47.5°	2697.5	2695.3	2676.1	2651.4	2621.0	2591.7	2561.3	2525.3	2474.6	2414.9	2348.5
45°	2848.4	2843.9	2824.7	2801.1	2771.8	2745.9	2718.9	2691.9	2637.9	2582.7	2519.6
42.5°	2977.9	2976.7	2957.6	2934.0	2904.7	2882.2	2857.4	2823.6	2778.6	2727.9	2666.0
40°	3101.7	3092.7	3073.6	3051.0	3024.0	3004.9	2980.1	2946.3	2902.4	2852.9	2793.2
37.5°	3194.0	3195.2	3174.9	3150.1	3126.5	3108.5	3085.9	3054.4	3016.1	2967.7	2908.1
35°	3281.8	3276.2	3259.3	3237.9	3216.5	3196.3	3172.6	3145.6	3114.1	3069.1	3012.8
32.5°	3339.3	3347.1	3326.9	3304.4	3292.0	3276.2	3251.4	3223.3	3195.2	3150.1	3099.5
30°	3402.3	3395.6	3379.8	3360.7	3351.6	3341.5	3320.1	3293.1	3260.5	3219.9	3172.6
27.5°	3446.2	3442.8	3423.7	3405.7	3401.2	3392.2	3375.3	3351.6	3319.0	3279.6	3235.7
25°	3465.4	3467.6	3449.6	3439.5	3439.5	3433.8	3420.3	3400.1	3367.4	3331.4	3288.6
22.5°	3474.4	3472.1	3459.7	3457.5	3463.1	3458.6	3453.0	3435.0	3405.7	3376.4	3340.4
20°	3480.0	3464.2	3453.0	3462.0	3468.7	3467.6	3463.1	3451.8	3438.3	3413.6	3382.0
17.5°	3467.6	3457.5	3444.0	3457.5	3472.1	3473.2	3468.7	3462.0	3458.6	3442.8	3414.7
15°	3437.2	3429.3	3431.6	3445.1	3462.0	3467.6	3471.0	3478.9	3474.4	3462.0	3437.2
12.5°	3416.9	3406.8	3416.9	3430.5	3439.5	3442.8	3469.9	3484.5	3484.5	3473.2	3457.5
10°	3411.3	3391.0	3404.6	3416.9	3421.4	3441.7	3464.2	3480.0	3487.9	3478.9	3458.6
7.5°	3400.1	3386.5	3392.2	3397.8	3423.7	3438.3	3450.7	3467.6	3478.9	3477.7	3459.7
5°	3394.4	3377.5	3379.8	3403.4	3421.4	3431.6	3436.1	3450.7	3467.6	3471.0	3457.5
2.5°	3379.8	3371.9	3388.8	3391.0	3404.6	3412.4	3416.9	3430.5	3451.8	3459.7	3454.1
0°	3371.9	3360.7	3349.4	3358.4	3380.9	3397.8	3404.6	3424.8	3449.6	3457.5	3445.1



REPORT NUMBER: P628209
 CATALOG NUMBER: IFLD-S-SA2B-730-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°	31.5	30.4	29.3	28.1	29.3	29.3	29.3	28.1	29.3	28.1	28.1
85°	97.9	93.4	90.1	85.6	81.1	77.7	73.2	68.7	67.6	66.4	64.2
82.5°	168.9	163.2	157.6	150.9	144.1	136.2	128.3	119.3	117.1	114.8	111.5
80°	237.6	229.7	221.8	213.9	207.2	199.3	190.3	180.1	173.4	167.8	161.0
77.5°	309.6	298.3	287.1	273.6	265.7	257.8	248.8	238.7	228.5	219.5	209.4
75°	391.8	379.4	368.2	354.6	340.0	325.4	310.7	297.2	282.6	269.1	255.6
72.5°	483.0	465.0	447.0	430.1	412.1	394.0	374.9	356.9	338.9	320.9	301.7
70°	578.7	556.2	533.7	511.1	487.5	463.8	441.3	418.8	396.3	372.7	351.3
67.5°	691.3	665.4	636.1	604.6	569.7	539.3	510.0	483.0	456.0	428.9	401.9
65°	832.0	796.0	756.6	713.8	673.3	632.7	589.9	549.4	517.9	486.4	456.0
62.5°	1005.4	954.7	899.6	844.4	794.8	741.9	692.4	639.5	589.9	544.9	507.8
60°	1212.5	1143.9	1076.3	1005.4	936.7	864.6	801.6	736.3	674.4	619.2	565.2
57.5°	1441.1	1361.1	1280.1	1193.4	1100.0	1015.5	929.9	844.4	771.2	698.0	637.2
55°	1673.0	1588.6	1497.4	1399.4	1297.0	1188.9	1072.9	977.2	877.0	791.5	712.7
52.5°	1893.7	1805.9	1711.3	1621.2	1498.5	1374.7	1247.4	1121.3	1004.3	895.0	799.4
50°	2090.7	2005.1	1913.9	1809.2	1695.5	1563.8	1421.9	1280.1	1141.6	1013.3	893.9
47.5°	2270.8	2187.5	2096.3	1991.6	1888.0	1741.7	1598.7	1442.2	1288.0	1140.5	1000.9
45°	2439.7	2355.3	2260.7	2160.5	2041.2	1910.6	1763.1	1605.5	1440.0	1274.5	1113.5
42.5°	2592.8	2508.4	2412.7	2309.1	2190.9	2061.4	1918.4	1759.7	1593.1	1412.9	1236.2
40°	2726.8	2644.6	2552.3	2444.2	2333.9	2197.7	2056.9	1906.1	1733.8	1552.5	1357.8
37.5°	2843.9	2767.3	2676.1	2569.2	2452.1	2330.5	2185.3	2034.4	1879.0	1682.0	1482.7
35°	2947.5	2876.5	2783.1	2681.8	2566.9	2438.6	2302.4	2154.9	1987.1	1802.5	1608.8
32.5°	3037.5	2965.5	2879.9	2778.6	2667.1	2546.7	2407.1	2258.4	2099.7	1911.7	1701.2
30°	3114.1	3044.3	2963.2	2867.5	2760.6	2641.2	2505.0	2355.3	2193.1	2006.3	1798.0
27.5°	3180.5	3114.1	3035.3	2946.3	2843.9	2729.1	2591.7	2440.8	2275.3	2095.2	1886.9
25°	3237.9	3173.8	3100.6	3016.1	2914.8	2802.2	2672.8	2515.1	2349.6	2168.4	1962.3
22.5°	3289.7	3227.8	3154.6	3072.4	2980.1	2867.5	2736.9	2580.4	2412.7	2233.7	2031.0
20°	3335.9	3278.5	3206.4	3122.0	3029.7	2915.9	2786.5	2637.9	2469.0	2293.3	2092.9
17.5°	3373.0	3322.4	3250.3	3161.4	3069.1	2958.7	2832.6	2696.4	2517.4	2344.0	2144.7
15°	3398.9	3349.4	3284.1	3194.0	3104.0	2994.8	2868.7	2727.9	2561.3	2384.5	2187.5
12.5°	3416.9	3364.0	3303.2	3219.9	3129.9	3021.8	2899.1	2760.6	2598.5	2420.6	2224.7
10°	3421.4	3373.0	3312.2	3237.9	3150.1	3045.4	2924.9	2787.6	2628.9	2448.7	2255.1
7.5°	3423.7	3377.5	3322.4	3251.4	3164.8	3063.4	2944.1	2809.0	2651.4	2472.4	2277.6
5°	3422.6	3378.7	3329.1	3260.5	3173.8	3073.6	2956.5	2823.6	2667.1	2488.1	2294.5
2.5°	3419.2	3379.8	3333.6	3267.2	3183.9	3084.8	2968.9	2840.5	2684.0	2501.6	2308.0
0°	3428.2	3394.4	3335.9	3265.0	3186.1	3084.8	2967.7	2842.8	2686.3	2500.5	2306.9



REPORT NUMBER: P628209
 CATALOG NUMBER: IFLD-S-SA2B-730-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°	28.1	27.0	27.0	25.9	24.8	23.6	21.4	20.3	18.0	14.6	11.3
85°	60.8	57.4	54.0	51.8	49.5	47.3	43.9	40.5	36.0	29.3	22.5
82.5°	107.0	100.2	93.4	85.6	78.8	72.1	66.4	60.8	54.0	43.9	33.8
80°	153.1	143.0	132.8	121.6	111.5	100.2	90.1	81.1	72.1	58.5	45.0
77.5°	199.3	185.8	171.1	157.6	143.0	128.3	113.7	101.3	87.8	72.1	56.3
75°	242.1	226.3	212.8	193.6	175.6	156.5	137.4	120.5	103.6	84.4	67.6
72.5°	284.8	264.6	245.4	227.4	207.2	183.5	162.1	140.7	119.3	96.8	76.6
70°	327.6	302.9	279.2	257.8	235.3	211.7	185.8	161.0	135.1	108.1	84.4
67.5°	371.5	343.4	316.4	289.3	263.4	236.4	209.4	181.3	150.9	119.3	93.4
65°	419.9	385.0	352.4	322.0	291.6	262.3	231.9	201.5	167.8	131.7	101.3
62.5°	468.4	430.1	391.8	353.5	319.7	287.1	254.4	220.7	183.5	145.2	109.2
60°	520.1	476.2	432.3	389.5	347.9	311.9	275.8	239.8	200.4	157.6	117.1
57.5°	577.6	524.6	475.1	426.7	379.4	336.6	297.2	258.9	215.0	170.0	126.1
55°	642.9	577.6	519.0	465.0	413.2	361.4	318.6	279.2	231.9	182.4	136.2
52.5°	711.5	636.1	565.2	504.4	449.2	390.7	338.9	295.0	248.8	194.8	145.2
50°	791.5	695.8	617.0	542.7	480.7	419.9	360.3	313.0	265.7	209.4	154.2
47.5°	873.7	767.8	668.8	587.7	514.5	448.1	385.0	328.7	281.5	222.9	163.2
45°	969.4	836.5	727.3	631.6	547.2	477.4	409.8	345.6	295.0	236.4	172.3
42.5°	1061.7	917.6	788.1	680.0	584.3	505.5	432.3	363.6	308.5	249.9	180.1
40°	1170.9	998.6	846.6	726.2	621.5	532.5	454.8	382.8	320.9	262.3	188.0
37.5°	1275.6	1080.8	917.6	776.8	657.5	559.5	477.4	400.8	332.1	274.7	198.1
35°	1379.2	1172.0	985.1	824.1	694.6	589.9	499.9	417.7	343.4	284.8	207.2
32.5°	1478.2	1257.6	1053.8	877.0	735.2	618.1	520.1	433.5	354.6	293.8	216.2
30°	1570.6	1338.6	1121.3	931.1	772.3	644.0	539.3	449.2	368.2	301.7	225.2
27.5°	1655.0	1417.4	1188.9	981.7	807.2	667.6	559.5	463.8	379.4	309.6	233.1
25°	1731.6	1488.4	1250.8	1027.9	838.8	693.5	578.7	478.5	389.5	316.4	239.8
22.5°	1803.6	1553.7	1307.1	1074.1	877.0	719.4	596.7	492.0	399.7	323.1	246.6
20°	1866.7	1613.3	1361.1	1120.2	910.8	743.1	612.5	504.4	408.7	327.6	253.3
17.5°	1917.3	1666.3	1409.6	1160.7	940.1	763.3	626.0	515.6	416.6	333.3	257.8
15°	1962.3	1711.3	1450.1	1195.6	966.0	780.2	638.4	524.6	423.3	336.6	263.4
12.5°	2000.6	1749.6	1485.0	1226.0	988.5	794.8	648.5	531.4	428.9	340.0	266.8
10°	2032.2	1780.0	1514.3	1249.7	1006.5	806.1	656.4	538.2	433.5	343.4	270.2
7.5°	2055.8	1802.5	1535.7	1270.0	1021.1	814.0	663.1	542.7	438.0	345.6	275.8
5°	2073.8	1821.6	1552.5	1283.5	1032.4	825.2	671.0	548.3	442.5	347.9	275.8
2.5°	2087.3	1837.4	1566.1	1294.7	1041.4	823.0	671.0	547.2	442.5	347.9	274.7
0°	2085.1	1838.5	1564.9	1294.7	1041.4	820.7	671.0	546.0	442.5	347.9	274.7



REPORT NUMBER: P628209
 CATALOG NUMBER: IFLD-S-SA2B-730-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.9	5.6	2.3	0.0
85°	16.9	11.3	5.6	0.0
82.5°	24.8	15.8	7.9	0.0
80°	32.6	21.4	10.1	0.0
77.5°	41.7	27.0	13.5	0.0
75°	49.5	31.5	15.8	0.0
72.5°	57.4	37.2	18.0	0.0
70°	64.2	41.7	20.3	0.0
67.5°	70.9	47.3	23.6	0.0
65°	76.6	51.8	25.9	0.0
62.5°	81.1	57.4	28.1	0.0
60°	86.7	61.9	30.4	0.0
57.5°	91.2	65.3	32.6	0.0
55°	95.7	67.6	34.9	0.0
52.5°	100.2	70.9	37.2	0.0
50°	104.7	74.3	39.4	0.0
47.5°	109.2	76.6	40.5	0.0
45°	116.0	79.9	42.8	0.0
42.5°	121.6	82.2	45.0	0.0
40°	127.2	84.4	46.2	0.0
37.5°	132.8	86.7	48.4	0.0
35°	138.5	88.9	49.5	0.0
32.5°	143.0	91.2	50.7	0.0
30°	147.5	93.4	51.8	0.0
27.5°	152.0	94.6	52.9	0.0
25°	155.4	96.8	54.0	0.0
22.5°	158.7	97.9	55.2	0.0
20°	161.0	99.1	56.3	0.0
17.5°	164.4	100.2	57.4	0.0
15°	165.5	101.3	59.7	0.0
12.5°	167.8	102.5	59.7	0.0
10°	168.9	103.6	59.7	0.0
7.5°	171.1	103.6	59.7	0.0
5°	170.0	103.6	59.7	0.0
2.5°	170.0	103.6	59.7	0.0
0°	168.9	103.6	59.7	0.0

(END OF REPORT)