

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: P628211

Luminaire Tested: **IFLD-S-SA2D-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628211
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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

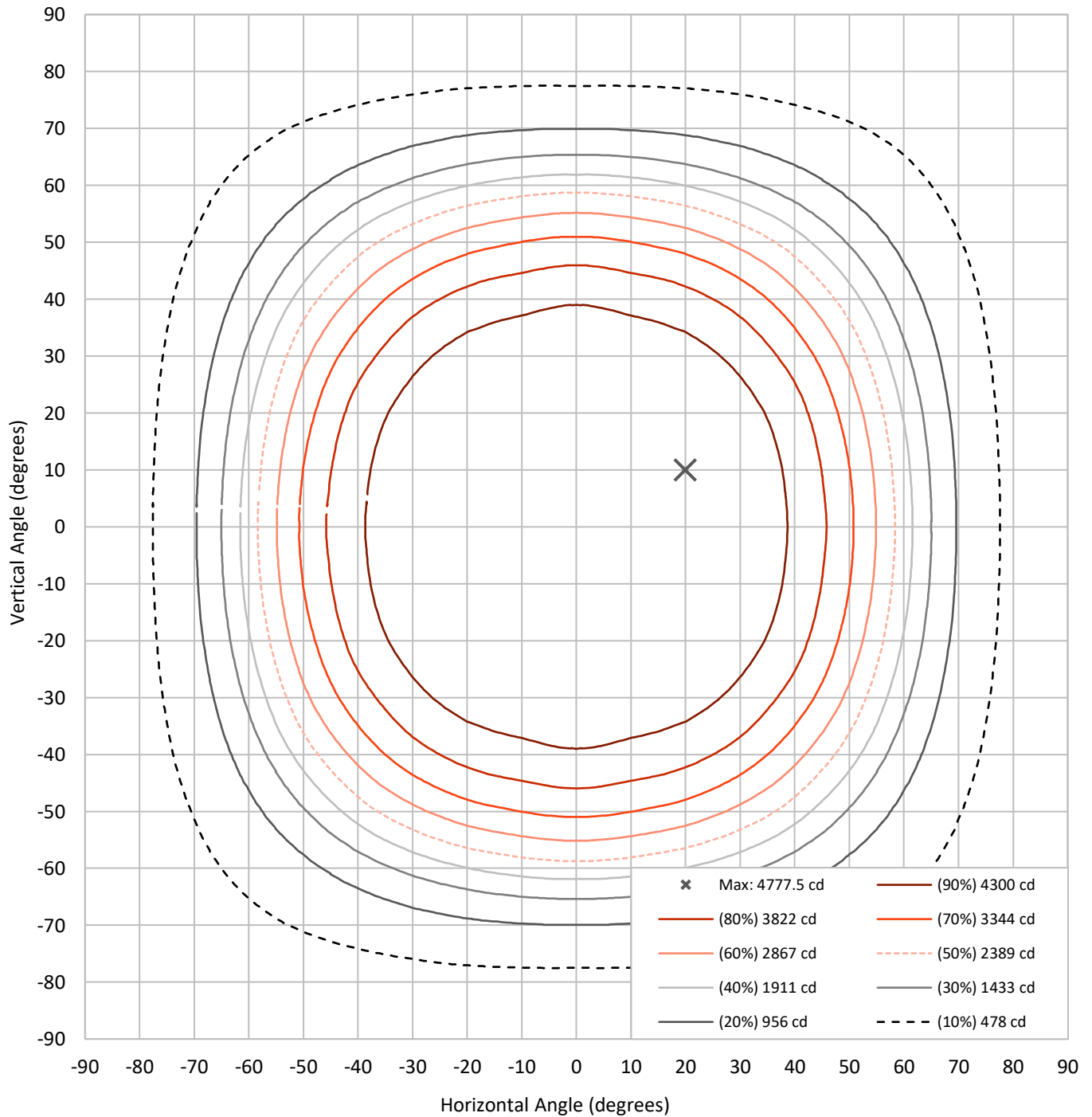
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14656.8 lumens	Max Intensity:	4777.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	118.3 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:	8993.7 lumens	Field Lumens:	10781.9 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: P628211
CATALOG NUMBER: IFLD-S-SA2D-730-U-LAM

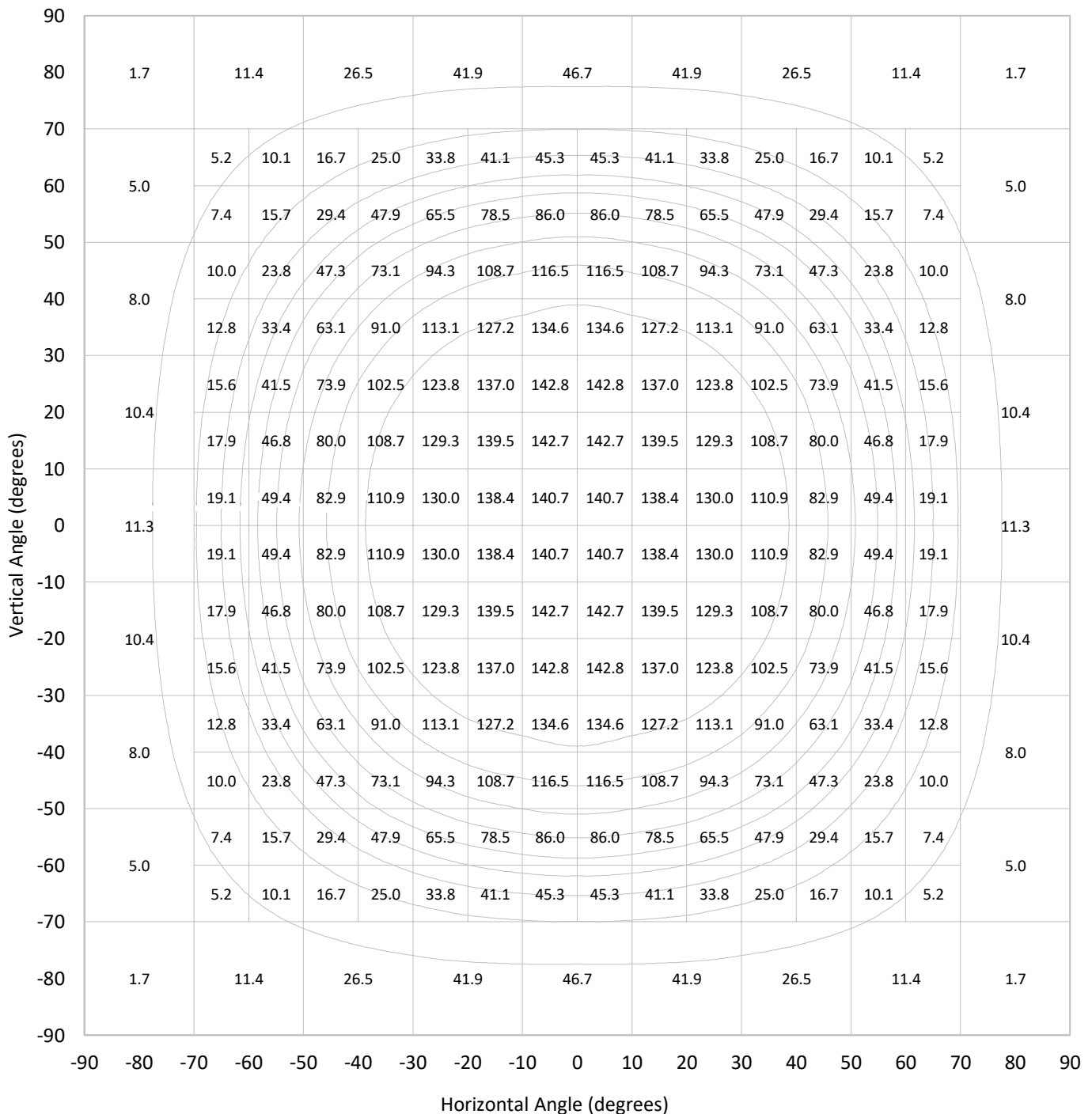
Iso-Candela Plot





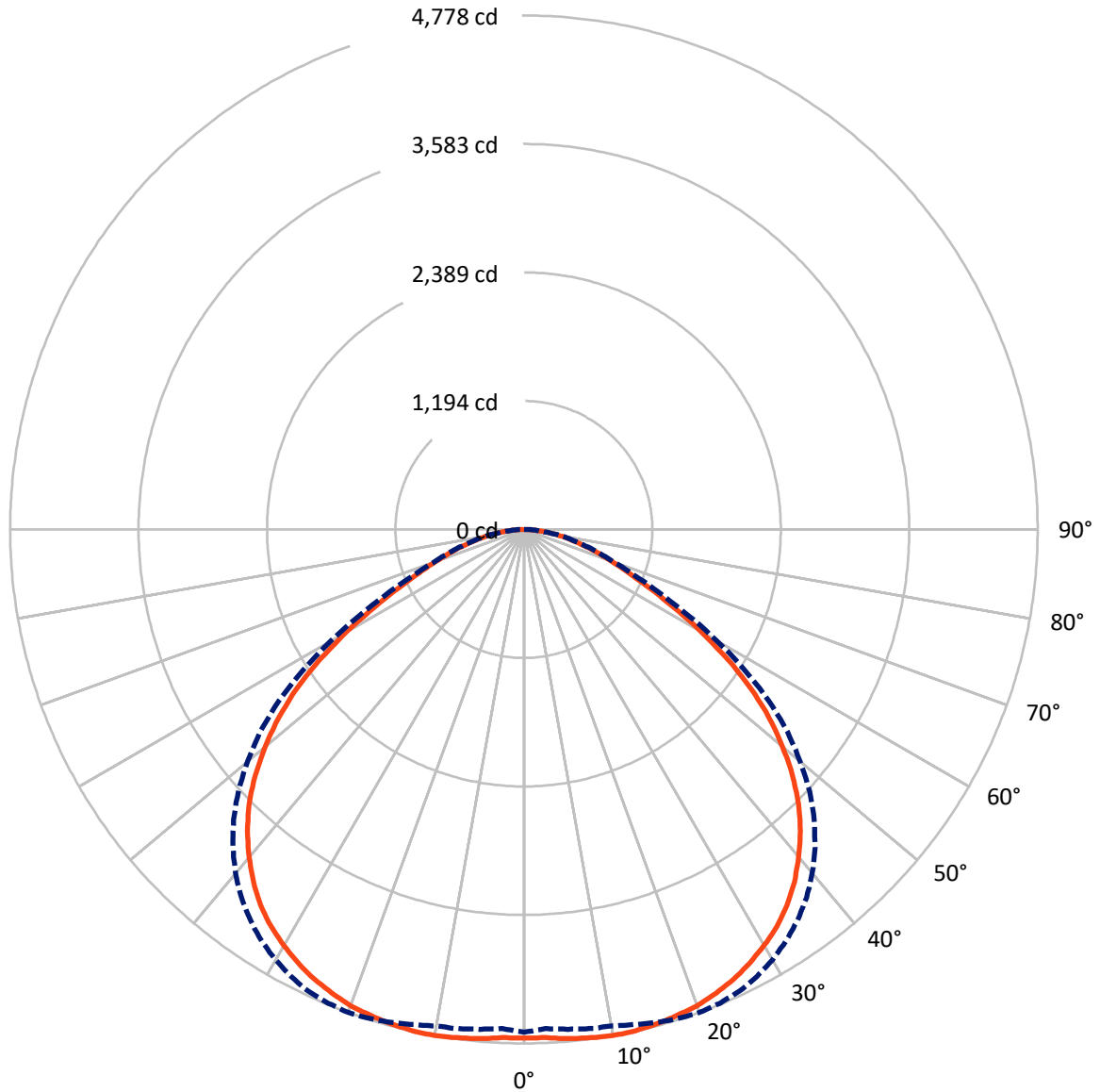
REPORT NUMBER: P628211
 CATALOG NUMBER: IFLD-S-SA2D-730-U-LAM

Lumen Table



REPORT NUMBER: P628211
CATALOG NUMBER: IFLD-S-SA2D-730-U-LAM

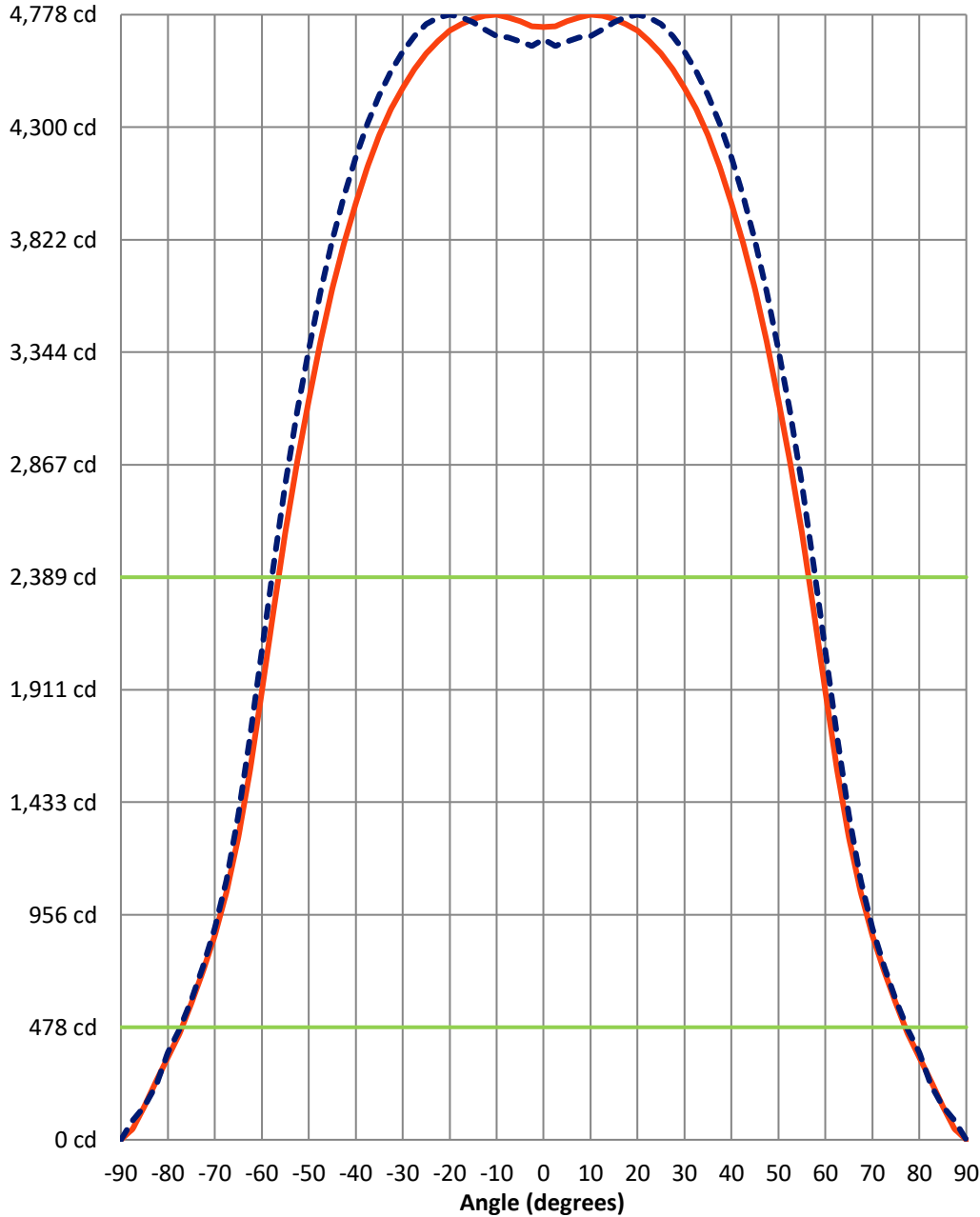
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628211
 CATALOG NUMBER: IFLD-S-SA2D-730-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 8993.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 10781.9
 Efficiency: 73.6%

Spill:
 Lumens: 3874.9
 Efficiency: 26.4%

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



REPORT NUMBER: P628211
 CATALOG NUMBER: IFLD-S-SA2D-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°	38.6	41.6	43.2	44.7	46.3	47.8	49.3	47.8	46.3	46.3	44.7
85°	103.3	106.4	107.9	118.7	129.5	135.7	143.4	141.9	141.9	140.3	138.8
82.5°	206.6	215.9	223.6	234.4	240.6	249.8	256.0	251.4	248.3	242.1	237.5
80°	367.0	370.1	371.7	373.2	365.5	363.9	360.9	356.2	350.1	342.4	334.6
77.5°	467.3	470.3	473.4	470.3	468.8	467.3	462.6	458.0	451.8	445.7	436.4
75°	618.4	618.4	618.4	613.8	610.7	606.1	598.3	590.6	579.8	567.5	553.6
72.5°	778.8	777.2	775.7	766.4	758.7	749.5	738.7	729.4	717.1	703.2	684.7
70°	946.9	950.0	951.5	939.2	929.9	917.6	903.7	886.7	868.2	848.2	822.0
67.5°	1178.2	1175.1	1172.0	1155.1	1142.7	1125.8	1105.7	1081.0	1053.3	1022.4	985.4
65°	1465.0	1469.7	1460.4	1443.4	1420.3	1392.5	1361.7	1326.2	1284.6	1238.3	1185.9
62.5°	1812.0	1819.7	1808.9	1787.3	1758.0	1721.0	1677.8	1626.9	1569.9	1505.1	1440.4
60°	2206.8	2205.2	2185.2	2155.9	2117.3	2071.1	2023.3	1967.8	1903.0	1827.4	1748.8
57.5°	2569.2	2566.1	2541.4	2512.1	2473.6	2424.2	2373.3	2314.7	2246.9	2166.7	2075.7
55°	2894.6	2891.5	2866.8	2836.0	2795.9	2746.5	2700.3	2644.8	2578.4	2493.6	2396.5
52.5°	3183.0	3184.5	3162.9	3129.0	3085.8	3038.0	2993.3	2937.8	2874.5	2789.7	2695.6
50°	3448.2	3446.7	3423.5	3392.7	3352.6	3306.3	3261.6	3206.1	3139.8	3058.0	2967.1
47.5°	3694.9	3691.9	3665.6	3631.7	3590.1	3550.0	3508.3	3459.0	3389.6	3307.9	3216.9
45°	3901.6	3895.4	3869.2	3836.8	3796.7	3761.3	3724.2	3687.2	3613.2	3537.6	3451.3
42.5°	4078.9	4077.4	4051.2	4018.8	3978.7	3947.9	3913.9	3867.7	3806.0	3736.6	3651.8
40°	4248.6	4236.2	4210.0	4179.2	4142.2	4115.9	4082.0	4035.8	3975.6	3907.8	3826.0
37.5°	4375.0	4376.6	4348.8	4314.9	4282.5	4257.8	4227.0	4183.8	4131.4	4065.1	3983.3
35°	4495.3	4487.6	4464.5	4435.2	4405.9	4378.1	4345.7	4308.7	4265.5	4203.8	4126.7
32.5°	4574.0	4584.8	4557.0	4526.2	4509.2	4487.6	4453.7	4415.1	4376.6	4314.9	4245.5
30°	4660.3	4651.1	4629.5	4603.3	4590.9	4577.0	4547.7	4510.7	4466.0	4410.5	4345.7
27.5°	4720.5	4715.8	4689.6	4664.9	4658.8	4646.4	4623.3	4590.9	4546.2	4492.2	4432.1
25°	4746.7	4749.8	4725.1	4711.2	4711.2	4703.5	4685.0	4657.2	4612.5	4563.2	4504.6
22.5°	4759.0	4755.9	4739.0	4735.9	4743.6	4737.4	4729.7	4705.0	4664.9	4624.9	4575.5
20°	4766.7	4745.1	4729.7	4742.1	4751.3	4749.8	4743.6	4728.2	4709.7	4675.7	4632.6
17.5°	4749.8	4735.9	4717.4	4735.9	4755.9	4757.5	4751.3	4742.1	4737.4	4715.8	4677.3
15°	4708.1	4697.3	4700.4	4718.9	4742.1	4749.8	4754.4	4765.2	4759.0	4742.1	4708.1
12.5°	4680.4	4666.5	4680.4	4698.9	4711.2	4715.8	4752.8	4772.9	4772.9	4757.5	4735.9
10°	4672.7	4644.9	4663.4	4680.4	4686.5	4714.3	4745.1	4766.7	4777.5	4765.2	4737.4
7.5°	4657.2	4638.7	4646.4	4654.2	4689.6	4709.7	4726.6	4749.8	4765.2	4763.6	4739.0
5°	4649.5	4626.4	4629.5	4661.9	4686.5	4700.4	4706.6	4726.6	4749.8	4754.4	4735.9
2.5°	4629.5	4618.7	4641.8	4644.9	4663.4	4674.2	4680.4	4698.9	4728.2	4739.0	4731.3
0°	4618.7	4603.3	4587.8	4600.2	4631.0	4654.2	4663.4	4691.2	4725.1	4735.9	4718.9



REPORT NUMBER: P628211
 CATALOG NUMBER: IFLD-S-SA2D-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°	43.2	41.6	40.1	38.6	40.1	40.1	40.1	38.6	40.1	38.6	38.6
85°	134.2	128.0	123.4	117.2	111.0	106.4	100.2	94.1	92.5	91.0	87.9
82.5°	231.3	223.6	215.9	206.6	197.4	186.6	175.8	163.5	160.4	157.3	152.7
80°	325.4	314.6	303.8	293.0	283.8	273.0	260.6	246.7	237.5	229.8	220.5
77.5°	424.1	408.7	393.2	374.7	363.9	353.1	340.8	326.9	313.1	300.7	286.8
75°	536.7	519.7	504.3	485.8	465.7	445.7	425.6	407.1	387.1	368.6	350.1
72.5°	661.6	636.9	612.2	589.1	564.4	539.7	513.5	488.9	464.2	439.5	413.3
70°	792.7	761.8	731.0	700.1	667.7	635.4	604.5	573.7	542.8	510.4	481.1
67.5°	946.9	911.4	871.3	828.1	780.3	738.7	698.6	661.6	624.6	587.6	550.5
65°	1139.6	1090.3	1036.3	977.7	922.2	866.7	808.1	752.6	709.4	666.2	624.6
62.5°	1377.1	1307.7	1232.2	1156.6	1088.7	1016.3	948.4	875.9	808.1	746.4	695.5
60°	1660.9	1566.8	1474.3	1377.1	1283.1	1184.4	1098.0	1008.6	923.7	848.2	774.1
57.5°	1973.9	1864.4	1753.4	1634.7	1506.7	1391.0	1273.8	1156.6	1056.4	956.1	872.8
55°	2291.6	2175.9	2051.0	1916.9	1776.5	1628.5	1469.7	1338.6	1201.3	1084.1	976.2
52.5°	2593.9	2473.6	2344.0	2220.7	2052.6	1882.9	1708.7	1536.0	1375.6	1226.0	1094.9
50°	2863.7	2746.5	2621.6	2478.2	2322.4	2142.0	1947.7	1753.4	1563.7	1387.9	1224.5
47.5°	3110.5	2996.4	2871.4	2728.0	2586.2	2385.7	2189.8	1975.5	1764.2	1562.2	1371.0
45°	3341.8	3226.1	3096.6	2959.3	2795.9	2617.0	2415.0	2199.1	1972.4	1745.7	1525.2
42.5°	3551.5	3435.9	3304.8	3162.9	3001.0	2823.6	2627.8	2410.4	2182.1	1935.4	1693.3
40°	3735.0	3622.5	3496.0	3348.0	3196.8	3010.2	2817.5	2610.8	2374.9	2126.6	1859.8
37.5°	3895.4	3790.6	3665.6	3519.1	3358.8	3192.2	2993.3	2786.6	2573.8	2303.9	2031.0
35°	4037.3	3940.1	3812.1	3673.4	3516.1	3340.3	3153.7	2951.6	2721.9	2469.0	2203.7
32.5°	4160.7	4062.0	3944.8	3806.0	3653.3	3488.3	3297.1	3093.5	2876.1	2618.5	2330.2
30°	4265.5	4169.9	4058.9	3927.8	3781.3	3617.8	3431.2	3226.1	3004.1	2748.1	2462.8
27.5°	4356.5	4265.5	4157.6	4035.8	3895.4	3738.1	3550.0	3343.3	3116.6	2869.9	2584.6
25°	4435.2	4347.3	4247.0	4131.4	3992.6	3838.4	3661.0	3445.1	3218.4	2970.1	2687.9
22.5°	4506.1	4421.3	4321.1	4208.5	4082.0	3927.8	3748.9	3534.6	3304.8	3059.6	2782.0
20°	4569.3	4490.7	4392.0	4276.3	4149.9	3994.1	3816.8	3613.2	3381.9	3141.3	2866.8
17.5°	4620.2	4550.8	4452.1	4330.3	4203.8	4052.7	3880.0	3693.4	3448.2	3210.7	2937.8
15°	4655.7	4587.8	4498.4	4375.0	4251.7	4102.1	3929.3	3736.6	3508.3	3266.2	2996.4
12.5°	4680.4	4607.9	4524.6	4410.5	4287.1	4139.1	3971.0	3781.3	3559.2	3315.6	3047.3
10°	4686.5	4620.2	4536.9	4435.2	4314.9	4171.5	4006.5	3818.3	3600.9	3354.1	3088.9
7.5°	4689.6	4626.4	4550.8	4453.7	4334.9	4196.1	4032.7	3847.6	3631.7	3386.5	3119.7
5°	4688.1	4627.9	4560.1	4466.0	4347.3	4210.0	4049.6	3867.7	3653.3	3408.1	3142.9
2.5°	4683.5	4629.5	4566.2	4475.3	4361.1	4225.4	4066.6	3890.8	3676.4	3426.6	3161.4
0°	4695.8	4649.5	4569.3	4472.2	4364.2	4225.4	4065.1	3893.9	3679.5	3425.1	3159.8



REPORT NUMBER: P628211
 CATALOG NUMBER: IFLD-S-SA2D-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°	38.6	37.0	37.0	35.5	33.9	32.4	29.3	27.8	24.7	20.0	15.4
85°	83.3	78.6	74.0	70.9	67.9	64.8	60.1	55.5	49.3	40.1	30.8
82.5°	146.5	137.2	128.0	117.2	107.9	98.7	91.0	83.3	74.0	60.1	46.3
80°	209.7	195.9	182.0	166.6	152.7	137.2	123.4	111.0	98.7	80.2	61.7
77.5°	273.0	254.5	234.4	215.9	195.9	175.8	155.8	138.8	120.3	98.7	77.1
75°	331.6	310.0	291.5	265.2	240.6	214.4	188.1	165.0	141.9	115.7	92.5
72.5°	390.2	362.4	336.2	311.5	283.8	251.4	222.1	192.8	163.5	132.6	104.9
70°	448.8	414.8	382.4	353.1	322.3	289.9	254.5	220.5	185.1	148.0	115.7
67.5°	508.9	470.3	433.3	396.3	360.9	323.8	286.8	248.3	206.6	163.5	128.0
65°	575.2	527.4	482.7	441.0	399.4	359.3	317.7	276.0	229.8	180.4	138.8
62.5°	641.5	589.1	536.7	484.2	438.0	393.2	348.5	302.3	251.4	198.9	149.6
60°	712.5	652.3	592.2	533.6	476.5	427.2	377.8	328.5	274.5	215.9	160.4
57.5°	791.1	718.6	650.8	584.5	519.7	461.1	407.1	354.7	294.5	232.9	172.7
55°	880.6	791.1	710.9	636.9	566.0	495.0	436.4	382.4	317.7	249.8	186.6
52.5°	974.6	871.3	774.1	690.9	615.3	535.1	464.2	404.0	340.8	266.8	198.9
50°	1084.1	953.0	845.1	743.3	658.5	575.2	493.5	428.7	363.9	286.8	211.3
47.5°	1196.7	1051.7	916.0	805.0	704.8	613.8	527.4	450.3	385.5	305.3	223.6
45°	1327.8	1145.8	996.2	865.1	749.5	653.9	561.3	473.4	404.0	323.8	235.9
42.5°	1454.2	1256.8	1079.5	931.4	800.4	692.4	592.2	498.1	422.5	342.4	246.7
40°	1603.8	1367.9	1159.7	994.7	851.3	729.4	623.0	524.3	439.5	359.3	257.5
37.5°	1747.2	1480.4	1256.8	1064.1	900.6	766.4	653.9	549.0	454.9	376.3	271.4
35°	1889.1	1605.4	1349.4	1128.8	951.5	808.1	684.7	572.1	470.3	390.2	283.8
32.5°	2024.8	1722.6	1443.4	1201.3	1007.0	846.6	712.5	593.7	485.8	402.5	296.1
30°	2151.3	1833.6	1536.0	1275.3	1057.9	882.1	738.7	615.3	504.3	413.3	308.4
27.5°	2266.9	1941.5	1628.5	1344.7	1105.7	914.5	766.4	635.4	519.7	424.1	319.2
25°	2371.8	2038.7	1713.3	1408.0	1148.9	950.0	792.7	655.4	533.6	433.3	328.5
22.5°	2470.5	2128.1	1790.4	1471.2	1201.3	985.4	817.3	673.9	547.5	442.6	337.7
20°	2556.9	2209.9	1864.4	1534.4	1247.6	1017.8	838.9	690.9	559.8	448.8	347.0
17.5°	2626.2	2282.4	1930.7	1589.9	1287.7	1045.6	857.4	706.3	570.6	456.5	353.1
15°	2687.9	2344.0	1986.3	1637.7	1323.1	1068.7	874.4	718.6	579.8	461.1	360.9
12.5°	2740.4	2396.5	2034.1	1679.4	1354.0	1088.7	888.3	727.9	587.6	465.7	365.5
10°	2783.5	2438.1	2074.2	1711.8	1378.7	1104.2	899.1	737.1	593.7	470.3	370.1
7.5°	2815.9	2469.0	2103.5	1739.5	1398.7	1115.0	908.3	743.3	599.9	473.4	377.8
5°	2840.6	2495.2	2126.6	1758.0	1414.1	1130.4	919.1	751.0	606.1	476.5	377.8
2.5°	2859.1	2516.8	2145.1	1773.5	1426.5	1127.3	919.1	749.5	606.1	476.5	376.3
0°	2856.0	2518.3	2143.6	1773.5	1426.5	1124.2	919.1	747.9	606.1	476.5	376.3



REPORT NUMBER: P628211
 CATALOG NUMBER: IFLD-S-SA2D-730-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.8	7.7	3.1	0.0
85°	23.1	15.4	7.7	0.0
82.5°	33.9	21.6	10.8	0.0
80°	44.7	29.3	13.9	0.0
77.5°	57.1	37.0	18.5	0.0
75°	67.9	43.2	21.6	0.0
72.5°	78.6	50.9	24.7	0.0
70°	87.9	57.1	27.8	0.0
67.5°	97.2	64.8	32.4	0.0
65°	104.9	70.9	35.5	0.0
62.5°	111.0	78.6	38.6	0.0
60°	118.7	84.8	41.6	0.0
57.5°	124.9	89.4	44.7	0.0
55°	131.1	92.5	47.8	0.0
52.5°	137.2	97.2	50.9	0.0
50°	143.4	101.8	54.0	0.0
47.5°	149.6	104.9	55.5	0.0
45°	158.8	109.5	58.6	0.0
42.5°	166.6	112.6	61.7	0.0
40°	174.3	115.7	63.2	0.0
37.5°	182.0	118.7	66.3	0.0
35°	189.7	121.8	67.9	0.0
32.5°	195.9	124.9	69.4	0.0
30°	202.0	128.0	70.9	0.0
27.5°	208.2	129.5	72.5	0.0
25°	212.8	132.6	74.0	0.0
22.5°	217.4	134.2	75.6	0.0
20°	220.5	135.7	77.1	0.0
17.5°	225.2	137.2	78.6	0.0
15°	226.7	138.8	81.7	0.0
12.5°	229.8	140.3	81.7	0.0
10°	231.3	141.9	81.7	0.0
7.5°	234.4	141.9	81.7	0.0
5°	232.9	141.9	81.7	0.0
2.5°	232.9	141.9	81.7	0.0
0°	231.3	141.9	81.7	0.0

(END OF REPORT)