

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: P628210

Luminaire Tested: **IFLD-S-SA2C-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628210
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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:	13320.3 lumens	Max Intensity:	4341.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	123.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

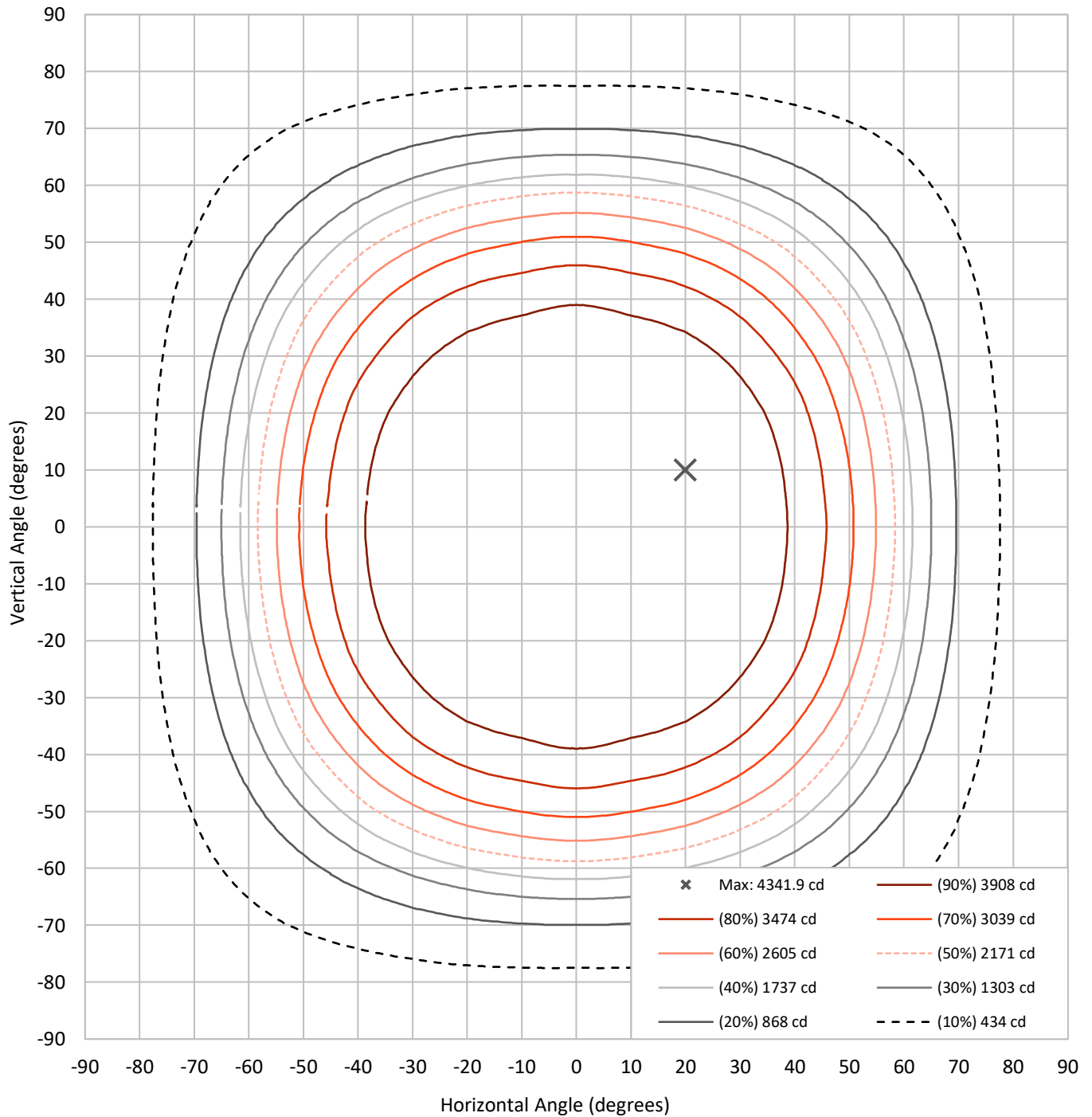
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	8173.6 lumens	Field Lumens:	9798.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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



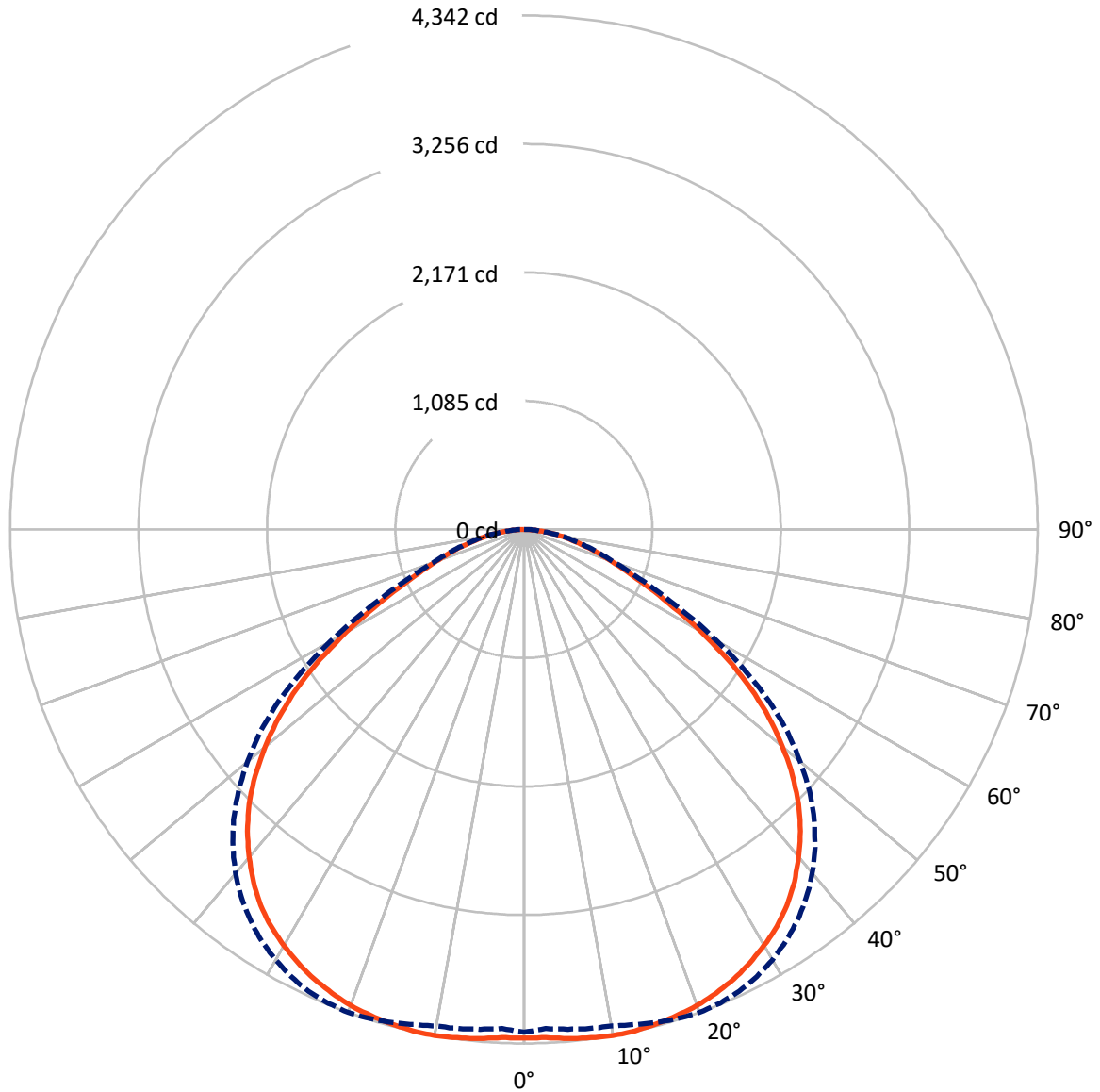
REPORT NUMBER: P628210
CATALOG NUMBER: IFLD-S-SA2C-730-U-LAM

Iso-Candela Plot



REPORT NUMBER: P628210
CATALOG NUMBER: IFLD-S-SA2C-730-U-LAM

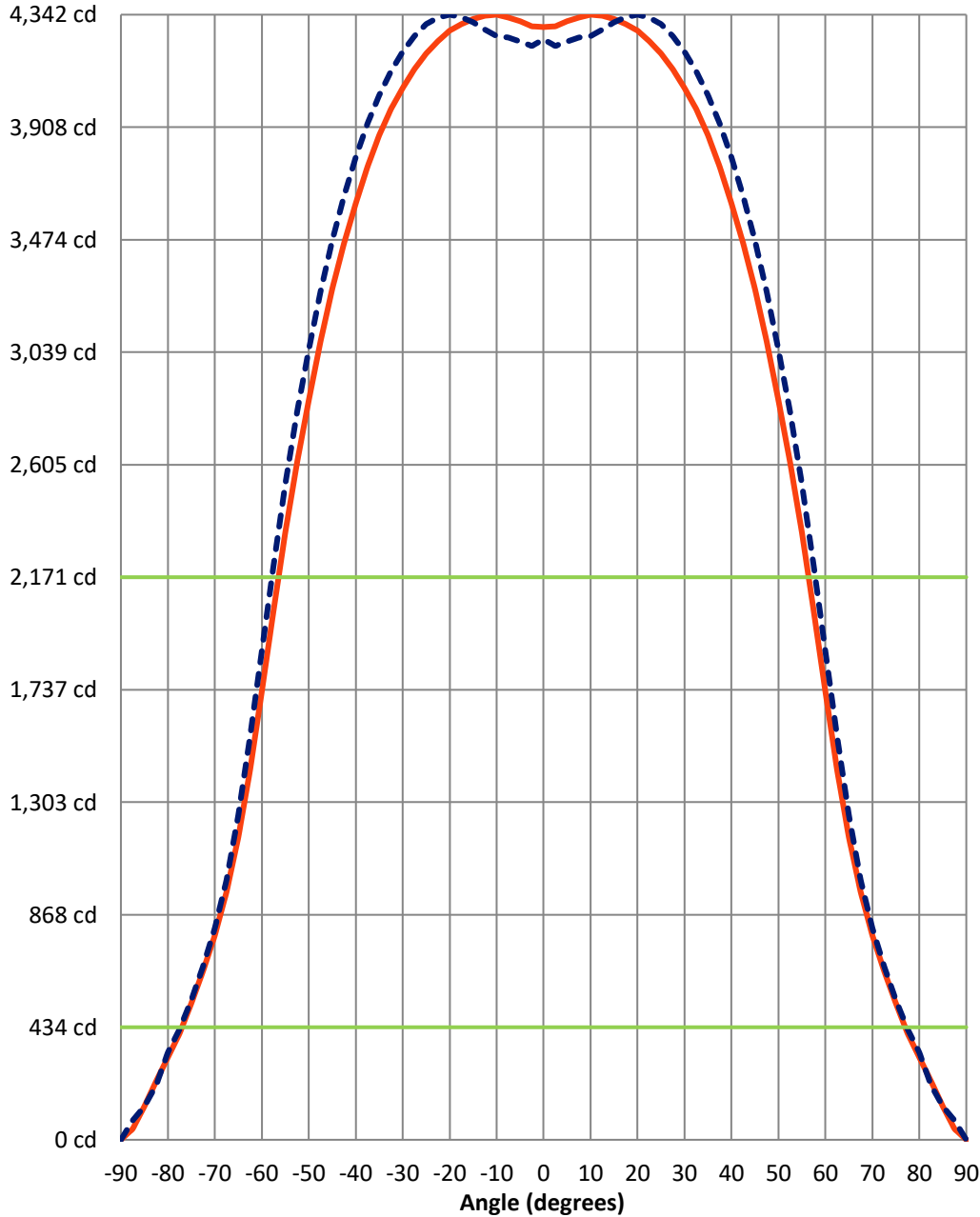
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628210
 CATALOG NUMBER: IFLD-S-SA2C-730-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 8173.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 9798.7
 Efficiency: 73.6%

Spill:
 Lumens: 3521.5
 Efficiency: 26.4%

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



REPORT NUMBER: P628210
 CATALOG NUMBER: IFLD-S-SA2C-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°	35.0	37.8	39.2	40.6	42.0	43.4	44.8	43.4	42.0	42.0	40.6
85°	93.9	96.7	98.1	107.9	117.7	123.3	130.3	128.9	128.9	127.5	126.1
82.5°	187.8	196.2	203.2	213.0	218.6	227.0	232.7	228.4	225.6	220.0	215.8
80°	333.6	336.4	337.8	339.2	332.2	330.8	328.0	323.7	318.1	311.1	304.1
77.5°	424.7	427.5	430.3	427.5	426.1	424.7	420.5	416.2	410.6	405.0	396.6
75°	562.0	562.0	562.0	557.8	555.0	550.8	543.8	536.8	527.0	515.8	503.1
72.5°	707.8	706.4	705.0	696.5	689.5	681.1	671.3	662.9	651.7	639.1	622.3
70°	860.5	863.3	864.7	853.5	845.1	833.9	821.3	805.9	789.0	770.8	747.0
67.5°	1070.8	1067.9	1065.1	1049.7	1038.5	1023.1	1004.9	982.5	957.2	929.2	895.6
65°	1331.4	1335.6	1327.2	1311.8	1290.8	1265.6	1237.5	1205.3	1167.5	1125.4	1077.8
62.5°	1646.8	1653.8	1644.0	1624.3	1597.7	1564.1	1524.8	1478.6	1426.7	1367.9	1309.0
60°	2005.6	2004.2	1985.9	1959.3	1924.3	1882.2	1838.8	1788.3	1729.5	1660.8	1589.3
57.5°	2334.9	2332.1	2309.7	2283.1	2248.0	2203.2	2156.9	2103.7	2042.0	1969.1	1886.4
55°	2630.6	2627.8	2605.4	2577.4	2540.9	2496.1	2454.0	2403.6	2343.3	2266.2	2177.9
52.5°	2892.7	2894.1	2874.5	2843.7	2804.4	2761.0	2720.3	2669.9	2612.4	2535.3	2449.8
50°	3133.8	3132.4	3111.3	3083.3	3046.9	3004.8	2964.2	2913.7	2853.5	2779.2	2696.5
47.5°	3358.0	3355.2	3331.4	3300.6	3262.7	3226.3	3188.4	3143.6	3080.5	3006.2	2923.5
45°	3545.8	3540.2	3516.4	3487.0	3450.5	3418.3	3384.6	3351.0	3283.7	3215.1	3136.6
42.5°	3707.0	3705.6	3681.8	3652.3	3615.9	3587.9	3557.0	3515.0	3458.9	3395.9	3318.8
40°	3861.2	3849.9	3826.1	3798.1	3764.5	3740.6	3709.8	3667.7	3613.1	3551.4	3477.1
37.5°	3976.1	3977.5	3952.3	3921.4	3892.0	3869.6	3841.5	3802.3	3754.6	3694.4	3620.1
35°	4085.4	4078.4	4057.4	4030.7	4004.1	3978.9	3949.5	3915.8	3876.6	3820.5	3750.4
32.5°	4156.9	4166.7	4141.5	4113.4	4098.0	4078.4	4047.6	4012.5	3977.5	3921.4	3858.4
30°	4235.4	4226.9	4207.3	4183.5	4172.3	4159.7	4133.0	4099.4	4058.8	4008.3	3949.5
27.5°	4290.0	4285.8	4262.0	4239.6	4234.0	4222.7	4201.7	4172.3	4131.6	4082.6	4027.9
25°	4313.8	4316.6	4294.2	4281.6	4281.6	4274.6	4257.8	4232.6	4191.9	4147.1	4093.8
22.5°	4325.1	4322.3	4306.8	4304.0	4311.0	4305.4	4298.4	4276.0	4239.6	4203.1	4158.3
20°	4332.1	4312.4	4298.4	4309.6	4318.0	4316.6	4311.0	4297.0	4280.2	4249.4	4210.1
17.5°	4316.6	4304.0	4287.2	4304.0	4322.3	4323.7	4318.0	4309.6	4305.4	4285.8	4250.8
15°	4278.8	4269.0	4271.8	4288.6	4309.6	4316.6	4320.9	4330.7	4325.1	4309.6	4278.8
12.5°	4253.6	4241.0	4253.6	4270.4	4281.6	4285.8	4319.4	4337.7	4337.7	4323.7	4304.0
10°	4246.6	4221.3	4238.2	4253.6	4259.2	4284.4	4312.4	4332.1	4341.9	4330.7	4305.4
7.5°	4232.6	4215.7	4222.7	4229.8	4262.0	4280.2	4295.6	4316.6	4330.7	4329.3	4306.8
5°	4225.5	4204.5	4207.3	4236.8	4259.2	4271.8	4277.4	4295.6	4316.6	4320.9	4304.0
2.5°	4207.3	4197.5	4218.5	4221.3	4238.2	4248.0	4253.6	4270.4	4297.0	4306.8	4299.8
0°	4197.5	4183.5	4169.5	4180.7	4208.7	4229.8	4238.2	4263.4	4294.2	4304.0	4288.6



REPORT NUMBER: P628210
 CATALOG NUMBER: IFLD-S-SA2C-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°	39.2	37.8	36.4	35.0	36.4	36.4	36.4	35.0	36.4	35.0	35.0
85°	121.9	116.3	112.1	106.5	100.9	96.7	91.1	85.5	84.1	82.7	79.9
82.5°	210.2	203.2	196.2	187.8	179.4	169.6	159.8	148.6	145.8	143.0	138.7
80°	295.7	285.9	276.1	266.3	257.9	248.1	236.9	224.2	215.8	208.8	200.4
77.5°	385.4	371.4	357.4	340.6	330.8	320.9	309.7	297.1	284.5	273.3	260.7
75°	487.7	472.3	458.3	441.5	423.3	405.0	386.8	370.0	351.8	335.0	318.1
72.5°	601.2	578.8	556.4	535.4	513.0	490.5	466.7	444.3	421.9	399.4	375.6
70°	720.4	692.3	664.3	636.3	606.9	577.4	549.4	521.4	493.3	463.9	437.3
67.5°	860.5	828.3	791.9	752.6	709.2	671.3	634.9	601.2	567.6	534.0	500.3
65°	1035.7	990.9	941.8	888.6	838.1	787.6	734.4	683.9	644.7	605.5	567.6
62.5°	1251.5	1188.5	1119.8	1051.1	989.5	923.6	861.9	796.1	734.4	678.3	632.1
60°	1509.4	1423.9	1339.8	1251.5	1166.1	1076.4	997.9	916.6	839.5	770.8	703.6
57.5°	1793.9	1694.4	1593.5	1485.6	1369.3	1264.2	1157.6	1051.1	960.0	868.9	793.3
55°	2082.6	1977.5	1864.0	1742.1	1614.5	1480.0	1335.6	1216.5	1091.8	985.3	887.2
52.5°	2357.3	2248.0	2130.3	2018.2	1865.4	1711.2	1552.9	1395.9	1250.1	1114.2	995.1
50°	2602.6	2496.1	2382.6	2252.2	2110.7	1946.7	1770.1	1593.5	1421.1	1261.4	1112.8
47.5°	2826.8	2723.1	2609.6	2479.3	2350.3	2168.1	1990.1	1795.3	1603.3	1419.7	1245.9
45°	3037.1	2932.0	2814.2	2689.5	2540.9	2378.4	2194.8	1998.6	1792.5	1586.5	1386.1
42.5°	3227.7	3122.6	3003.4	2874.5	2727.3	2566.2	2388.2	2190.6	1983.1	1758.9	1538.9
40°	3394.5	3292.1	3177.2	3042.7	2905.3	2735.7	2560.6	2372.8	2158.3	1932.7	1690.2
37.5°	3540.2	3444.9	3331.4	3198.2	3052.5	2901.1	2720.3	2532.5	2339.1	2093.9	1845.8
35°	3669.1	3580.9	3464.5	3338.4	3195.4	3035.7	2866.1	2682.5	2473.7	2243.8	2002.8
32.5°	3781.3	3691.6	3585.1	3458.9	3320.2	3170.2	2996.4	2811.4	2613.8	2379.8	2117.7
30°	3876.6	3789.7	3688.8	3569.6	3436.5	3287.9	3118.4	2932.0	2730.1	2497.5	2238.2
27.5°	3959.3	3876.6	3778.5	3667.7	3540.2	3397.3	3226.3	3038.5	2832.4	2608.2	2348.9
25°	4030.7	3950.9	3859.8	3754.6	3628.5	3488.4	3327.2	3131.0	2924.9	2699.3	2442.8
22.5°	4095.2	4018.1	3927.0	3824.7	3709.8	3569.6	3407.1	3212.3	3003.4	2780.6	2528.3
20°	4152.7	4081.2	3991.5	3886.4	3771.5	3629.9	3468.7	3283.7	3073.5	2854.9	2605.4
17.5°	4198.9	4135.9	4046.2	3935.4	3820.5	3683.2	3526.2	3356.6	3133.8	2917.9	2669.9
15°	4231.2	4169.5	4088.2	3976.1	3864.0	3728.0	3571.0	3395.9	3188.4	2968.4	2723.1
12.5°	4253.6	4187.7	4112.0	4008.3	3896.2	3761.6	3608.9	3436.5	3234.7	3013.2	2769.4
10°	4259.2	4198.9	4123.2	4030.7	3921.4	3791.1	3641.1	3470.1	3272.5	3048.3	2807.2
7.5°	4262.0	4204.5	4135.9	4047.6	3939.6	3813.5	3664.9	3496.8	3300.6	3077.7	2835.3
5°	4260.6	4205.9	4144.3	4058.8	3950.9	3826.1	3680.4	3515.0	3320.2	3097.3	2856.3
2.5°	4256.4	4207.3	4149.9	4067.2	3963.5	3840.1	3695.8	3536.0	3341.2	3114.2	2873.1
0°	4267.6	4225.5	4152.7	4064.4	3966.3	3840.1	3694.4	3538.8	3344.0	3112.8	2871.7



REPORT NUMBER: P628210
 CATALOG NUMBER: IFLD-S-SA2C-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°	35.0	33.6	33.6	32.2	30.8	29.4	26.6	25.2	22.4	18.2	14.0
85°	75.7	71.5	67.3	64.5	61.7	58.9	54.7	50.5	44.8	36.4	28.0
82.5°	133.1	124.7	116.3	106.5	98.1	89.7	82.7	75.7	67.3	54.7	42.0
80°	190.6	178.0	165.4	151.4	138.7	124.7	112.1	100.9	89.7	72.9	56.1
77.5°	248.1	231.2	213.0	196.2	178.0	159.8	141.6	126.1	109.3	89.7	70.1
75°	301.3	281.7	264.9	241.1	218.6	194.8	171.0	150.0	128.9	105.1	84.1
72.5°	354.6	329.4	305.5	283.1	257.9	228.4	201.8	175.2	148.6	120.5	95.3
70°	407.8	377.0	347.6	320.9	292.9	263.5	231.2	200.4	168.2	134.5	105.1
67.5°	462.5	427.5	393.8	360.2	328.0	294.3	260.7	225.6	187.8	148.6	116.3
65°	522.8	479.3	438.7	400.8	363.0	326.6	288.7	250.9	208.8	164.0	126.1
62.5°	583.0	535.4	487.7	440.1	398.0	357.4	316.7	274.7	228.4	180.8	135.9
60°	647.5	592.8	538.2	484.9	433.1	388.2	343.4	298.5	249.5	196.2	145.8
57.5°	719.0	653.1	591.4	531.2	472.3	419.1	370.0	322.3	267.7	211.6	157.0
55°	800.3	719.0	646.1	578.8	514.4	449.9	396.6	347.6	288.7	227.0	169.6
52.5°	885.8	791.9	703.6	627.9	559.2	486.3	421.9	367.2	309.7	242.5	180.8
50°	985.3	866.1	768.0	675.5	598.4	522.8	448.5	389.6	330.8	260.7	192.0
47.5°	1087.6	955.8	832.5	731.6	640.5	557.8	479.3	409.2	350.4	277.5	203.2
45°	1206.7	1041.3	905.4	786.2	681.1	594.2	510.1	430.3	367.2	294.3	214.4
42.5°	1321.6	1142.2	981.1	846.5	727.4	629.3	538.2	452.7	384.0	311.1	224.2
40°	1457.6	1243.1	1053.9	904.0	773.6	662.9	566.2	476.5	399.4	326.6	234.1
37.5°	1587.9	1345.4	1142.2	967.0	818.5	696.5	594.2	498.9	413.4	342.0	246.7
35°	1716.8	1459.0	1226.3	1025.9	864.7	734.4	622.3	520.0	427.5	354.6	257.9
32.5°	1840.2	1565.5	1311.8	1091.8	915.2	769.4	647.5	539.6	441.5	365.8	269.1
30°	1955.1	1666.4	1395.9	1159.0	961.4	801.7	671.3	559.2	458.3	375.6	280.3
27.5°	2060.2	1764.5	1480.0	1222.1	1004.9	831.1	696.5	577.4	472.3	385.4	290.1
25°	2155.5	1852.8	1557.1	1279.6	1044.1	863.3	720.4	595.6	484.9	393.8	298.5
22.5°	2245.2	1934.1	1627.2	1337.0	1091.8	895.6	742.8	612.5	497.5	402.2	306.9
20°	2323.7	2008.4	1694.4	1394.5	1133.8	925.0	762.4	627.9	508.7	407.8	315.3
17.5°	2386.8	2074.2	1754.7	1445.0	1170.3	950.2	779.2	641.9	518.6	414.8	320.9
15°	2442.8	2130.3	1805.1	1488.4	1202.5	971.2	794.7	653.1	527.0	419.1	328.0
12.5°	2490.5	2177.9	1848.6	1526.2	1230.5	989.5	807.3	661.5	534.0	423.3	332.2
10°	2529.7	2215.8	1885.0	1555.7	1252.9	1003.5	817.1	669.9	539.6	427.5	336.4
7.5°	2559.2	2243.8	1911.7	1580.9	1271.2	1013.3	825.5	675.5	545.2	430.3	343.4
5°	2581.6	2267.6	1932.7	1597.7	1285.2	1027.3	835.3	682.5	550.8	433.1	343.4
2.5°	2598.4	2287.3	1949.5	1611.7	1296.4	1024.5	835.3	681.1	550.8	433.1	342.0
0°	2595.6	2288.7	1948.1	1611.7	1296.4	1021.7	835.3	679.7	550.8	433.1	342.0



REPORT NUMBER: P628210
 CATALOG NUMBER: IFLD-S-SA2C-730-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.8	7.0	2.8	0.0
85°	21.0	14.0	7.0	0.0
82.5°	30.8	19.6	9.8	0.0
80°	40.6	26.6	12.6	0.0
77.5°	51.9	33.6	16.8	0.0
75°	61.7	39.2	19.6	0.0
72.5°	71.5	46.2	22.4	0.0
70°	79.9	51.9	25.2	0.0
67.5°	88.3	58.9	29.4	0.0
65°	95.3	64.5	32.2	0.0
62.5°	100.9	71.5	35.0	0.0
60°	107.9	77.1	37.8	0.0
57.5°	113.5	81.3	40.6	0.0
55°	119.1	84.1	43.4	0.0
52.5°	124.7	88.3	46.2	0.0
50°	130.3	92.5	49.1	0.0
47.5°	135.9	95.3	50.5	0.0
45°	144.4	99.5	53.3	0.0
42.5°	151.4	102.3	56.1	0.0
40°	158.4	105.1	57.5	0.0
37.5°	165.4	107.9	60.3	0.0
35°	172.4	110.7	61.7	0.0
32.5°	178.0	113.5	63.1	0.0
30°	183.6	116.3	64.5	0.0
27.5°	189.2	117.7	65.9	0.0
25°	193.4	120.5	67.3	0.0
22.5°	197.6	121.9	68.7	0.0
20°	200.4	123.3	70.1	0.0
17.5°	204.6	124.7	71.5	0.0
15°	206.0	126.1	74.3	0.0
12.5°	208.8	127.5	74.3	0.0
10°	210.2	128.9	74.3	0.0
7.5°	213.0	128.9	74.3	0.0
5°	211.6	128.9	74.3	0.0
2.5°	211.6	128.9	74.3	0.0
0°	210.2	128.9	74.3	0.0

(END OF REPORT)