

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: P628461

Luminaire Tested: **IFLD-L-SA7B-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628461
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

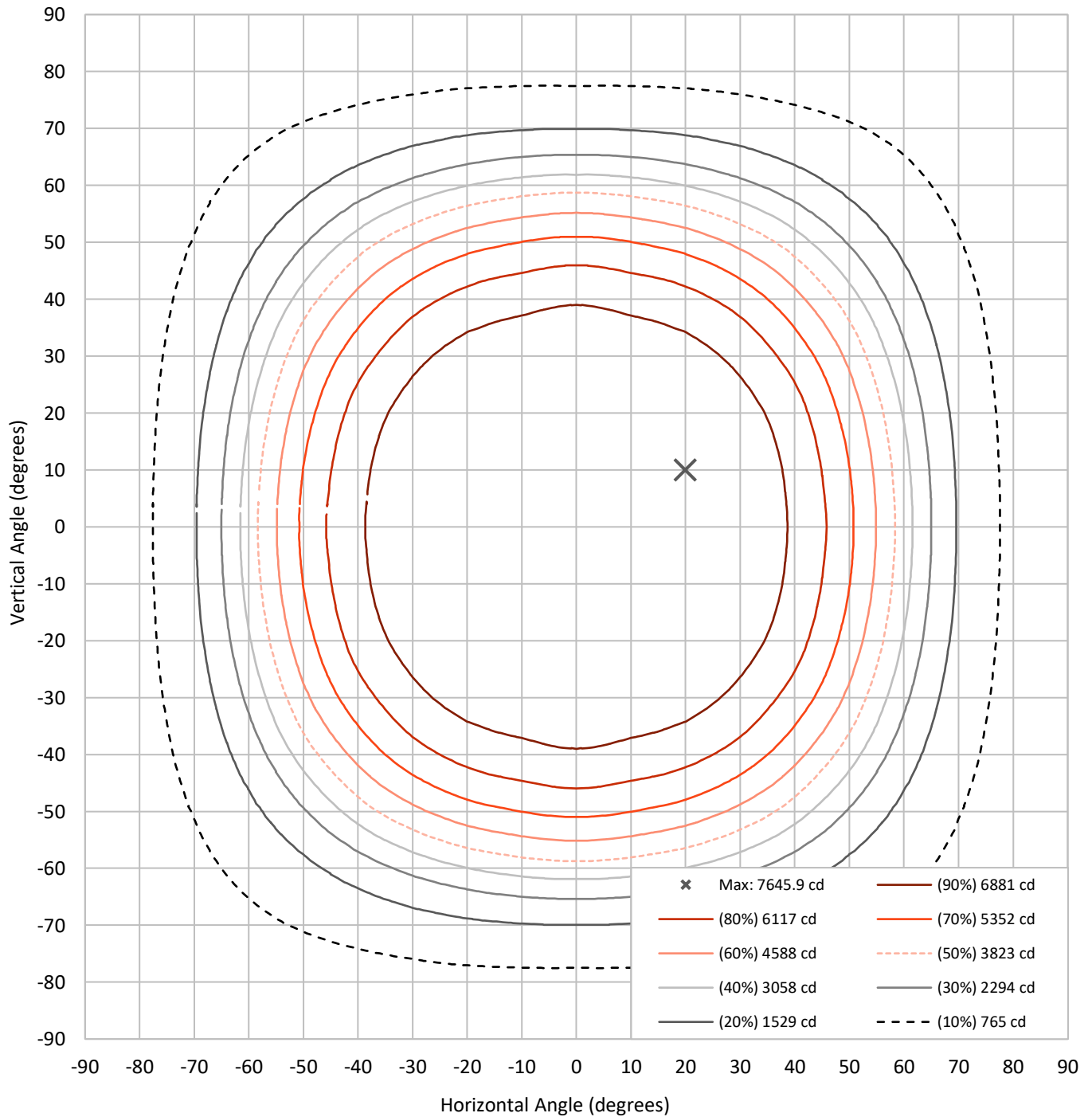
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23456.6 lumens	Max Intensity:	7645.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	83.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	14393.4 lumens	Field Lumens:	17255.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 281
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



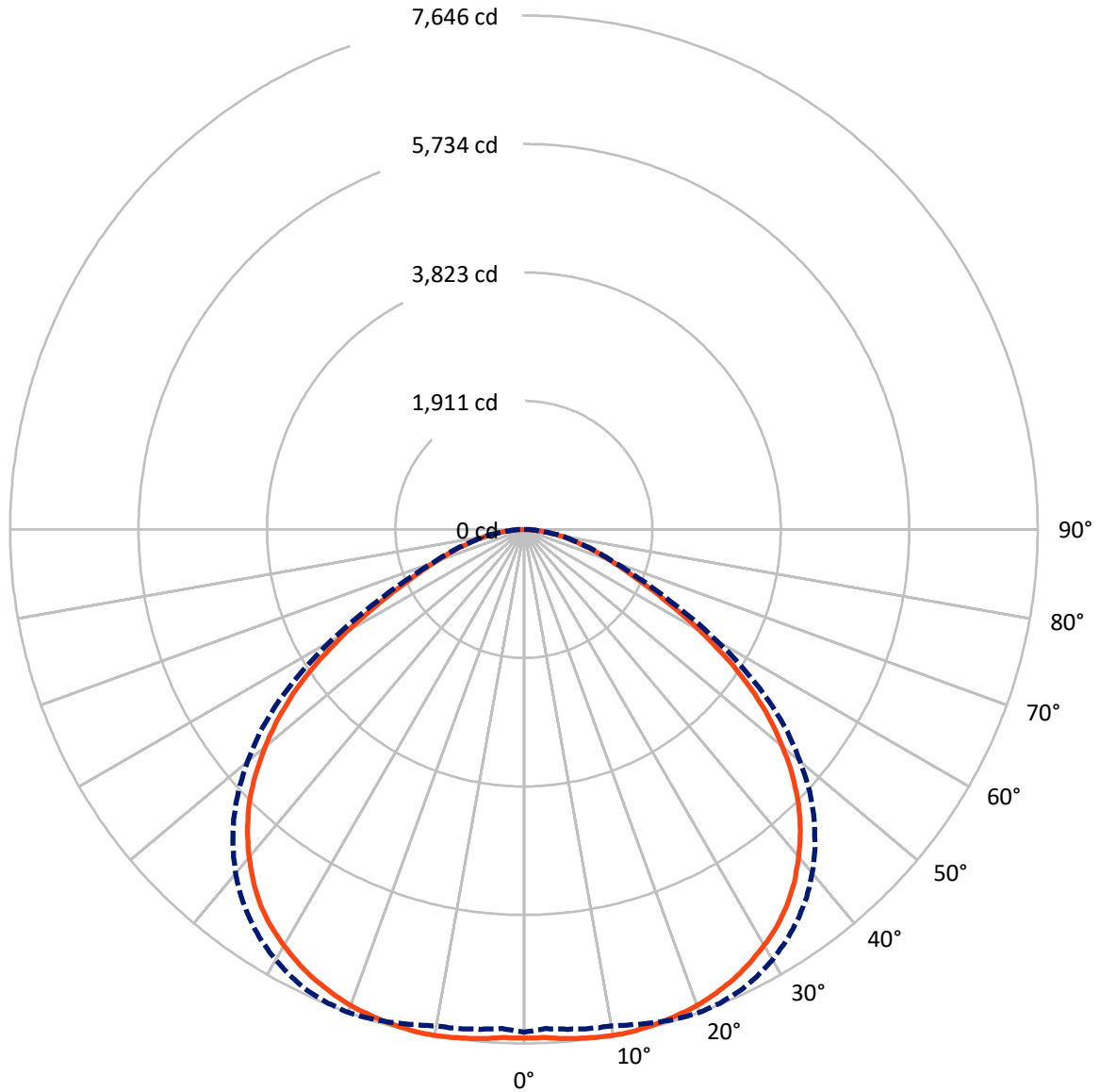
REPORT NUMBER: P628461
CATALOG NUMBER: IFLD-L-SA7B-930-U-LAM

Iso-Candela Plot



REPORT NUMBER: P628461
CATALOG NUMBER: IFLD-L-SA7B-930-U-LAM

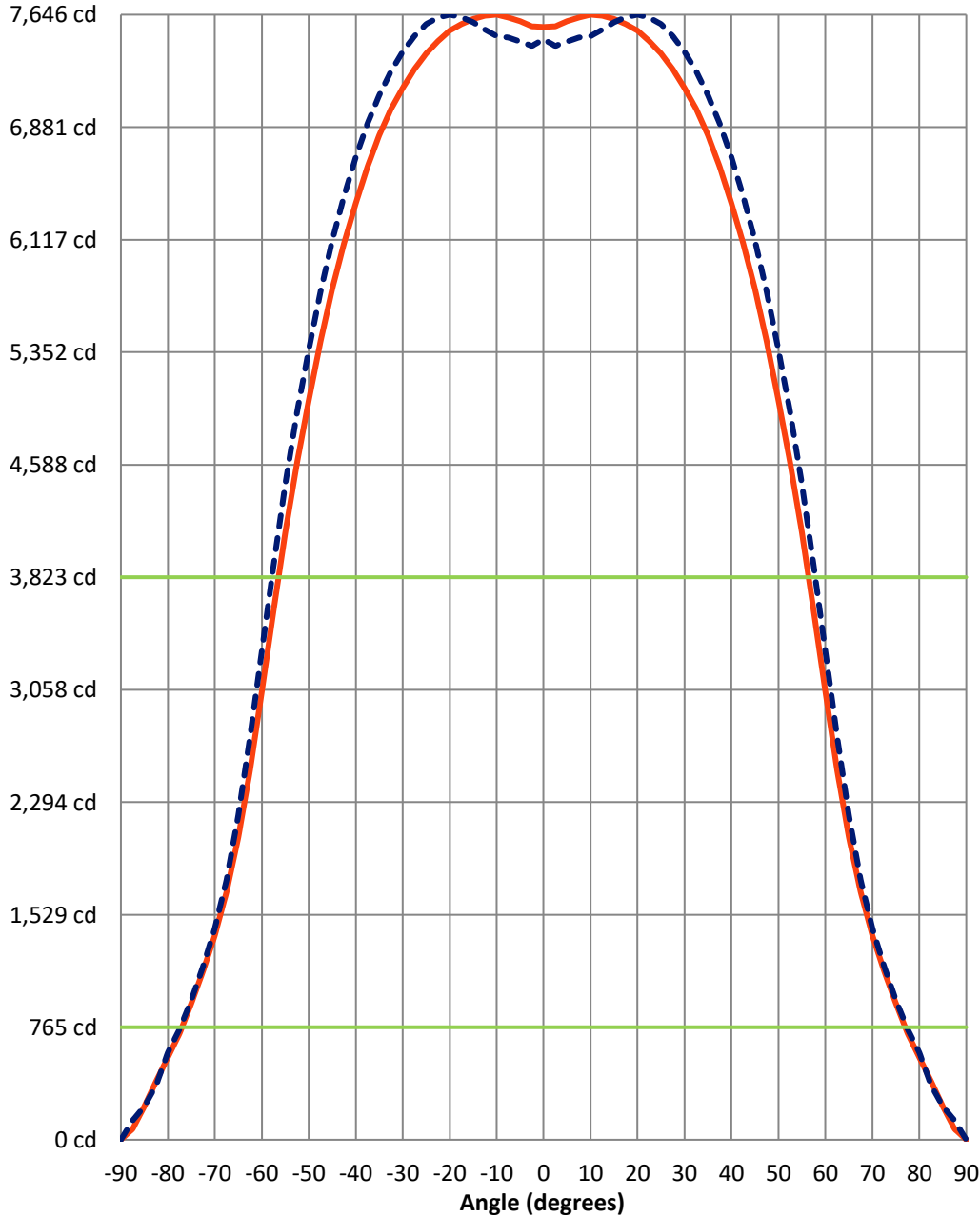
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628461
 CATALOG NUMBER: IFLD-L-SA7B-930-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 14393.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 17255.3
 Efficiency: 73.6%

Spill:
 Lumens: 6201.3
 Efficiency: 26.4%

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



REPORT NUMBER: P628461
 CATALOG NUMBER: IFLD-L-SA7B-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°	61.7	66.6	69.1	71.6	74.0	76.5	79.0	76.5	74.0	74.0	71.6
85°	165.4	170.3	172.8	190.0	207.3	217.2	229.5	227.1	227.1	224.6	222.1
82.5°	330.7	345.5	357.9	375.1	385.0	399.8	409.7	402.3	397.4	387.5	380.1
80°	587.4	592.3	594.8	597.3	584.9	582.5	577.5	570.1	560.2	547.9	535.6
77.5°	747.8	752.7	757.7	752.7	750.3	747.8	740.4	733.0	723.1	713.3	698.4
75°	989.7	989.7	989.7	982.3	977.3	969.9	957.6	945.2	928.0	908.2	886.0
72.5°	1246.3	1243.9	1241.4	1226.6	1214.3	1199.5	1182.2	1167.4	1147.6	1125.4	1095.8
70°	1515.4	1520.3	1522.8	1503.0	1488.2	1468.5	1446.3	1419.1	1389.5	1357.4	1315.5
67.5°	1885.6	1880.6	1875.7	1848.5	1828.8	1801.6	1769.6	1730.1	1685.7	1636.3	1577.1
65°	2344.6	2352.0	2337.2	2310.1	2273.0	2228.6	2179.3	2122.5	2055.9	1981.8	1897.9
62.5°	2899.9	2912.3	2895.0	2860.4	2813.5	2754.3	2685.2	2603.8	2512.4	2408.8	2305.1
60°	3531.7	3529.3	3497.2	3450.3	3388.6	3314.5	3238.0	3149.2	3045.5	2924.6	2798.7
57.5°	4111.7	4106.8	4067.3	4020.4	3958.7	3879.7	3798.3	3704.5	3595.9	3467.6	3321.9
55°	4632.5	4627.5	4588.0	4538.7	4474.5	4395.5	4321.5	4232.6	4126.5	3990.8	3835.3
52.5°	5094.0	5096.4	5061.9	5007.6	4938.5	4862.0	4790.4	4701.6	4600.4	4464.6	4314.1
50°	5518.5	5516.0	5479.0	5429.6	5365.5	5291.4	5219.8	5131.0	5024.9	4894.1	4748.5
47.5°	5913.4	5908.4	5866.5	5812.2	5745.5	5681.4	5614.7	5535.8	5424.7	5293.9	5148.3
45°	6244.1	6234.2	6192.2	6140.4	6076.2	6019.5	5960.3	5901.0	5782.6	5661.6	5523.4
42.5°	6527.9	6525.4	6483.5	6431.6	6367.5	6318.1	6263.8	6189.8	6091.1	5980.0	5844.3
40°	6799.4	6779.6	6737.7	6688.3	6629.1	6587.1	6532.8	6458.8	6362.5	6253.9	6123.1
37.5°	7001.8	7004.2	6959.8	6905.5	6853.7	6814.2	6764.8	6695.7	6611.8	6505.7	6374.9
35°	7194.3	7181.9	7144.9	7098.0	7051.1	7006.7	6954.9	6895.6	6826.5	6727.8	6604.4
32.5°	7320.1	7337.4	7293.0	7243.6	7216.5	7181.9	7127.6	7065.9	7004.2	6905.5	6794.4
30°	7458.3	7443.5	7409.0	7367.0	7347.3	7325.1	7278.2	7218.9	7147.4	7058.5	6954.9
27.5°	7554.6	7547.2	7505.2	7465.7	7455.9	7436.1	7399.1	7347.3	7275.7	7189.3	7093.1
25°	7596.5	7601.5	7562.0	7539.8	7539.8	7527.4	7497.8	7453.4	7381.8	7302.8	7209.1
22.5°	7616.3	7611.4	7584.2	7579.3	7591.6	7581.7	7569.4	7529.9	7465.7	7401.6	7322.6
20°	7628.6	7594.1	7569.4	7589.1	7603.9	7601.5	7591.6	7566.9	7537.3	7483.0	7413.9
17.5°	7601.5	7579.3	7549.7	7579.3	7611.4	7613.8	7603.9	7589.1	7581.7	7547.2	7485.5
15°	7534.8	7517.6	7522.5	7552.1	7589.1	7601.5	7608.9	7626.2	7616.3	7589.1	7534.8
12.5°	7490.4	7468.2	7490.4	7520.0	7539.8	7547.2	7606.4	7638.5	7638.5	7613.8	7579.3
10°	7478.1	7433.7	7463.3	7490.4	7500.3	7544.7	7594.1	7628.6	7645.9	7626.2	7581.7
7.5°	7453.4	7423.8	7436.1	7448.5	7505.2	7537.3	7564.5	7601.5	7626.2	7623.7	7584.2
5°	7441.1	7404.0	7409.0	7460.8	7500.3	7522.5	7532.4	7564.5	7601.5	7608.9	7579.3
2.5°	7409.0	7391.7	7428.7	7433.7	7463.3	7480.5	7490.4	7520.0	7566.9	7584.2	7571.9
0°	7391.7	7367.0	7342.3	7362.1	7411.4	7448.5	7463.3	7507.7	7562.0	7579.3	7552.1



REPORT NUMBER: P628461
 CATALOG NUMBER: IFLD-L-SA7B-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°	69.1	66.6	64.2	61.7	64.2	64.2	64.2	61.7	64.2	61.7	61.7
85°	214.7	204.8	197.4	187.6	177.7	170.3	160.4	150.5	148.1	145.6	140.7
82.5°	370.2	357.9	345.5	330.7	315.9	298.6	281.4	261.6	256.7	251.7	244.3
80°	520.8	503.5	486.2	468.9	454.1	436.8	417.1	394.9	380.1	367.7	352.9
77.5°	678.7	654.0	629.3	599.7	582.5	565.2	545.4	523.2	501.0	481.3	459.1
75°	858.9	831.7	807.0	777.4	745.3	713.3	681.2	651.6	619.5	589.9	560.2
72.5°	1058.8	1019.3	979.8	942.8	903.3	863.8	821.8	782.4	742.9	703.4	661.4
70°	1268.6	1219.2	1169.8	1120.5	1068.6	1016.8	967.5	918.1	868.7	816.9	770.0
67.5°	1515.4	1458.6	1394.4	1325.3	1248.8	1182.2	1118.0	1058.8	999.5	940.3	881.1
65°	1823.9	1744.9	1658.5	1564.7	1475.9	1387.0	1293.2	1204.4	1135.3	1066.2	999.5
62.5°	2203.9	2092.9	1971.9	1851.0	1742.4	1626.4	1517.8	1401.8	1293.2	1194.5	1113.1
60°	2658.0	2507.5	2359.4	2203.9	2053.4	1895.4	1757.2	1614.1	1478.3	1357.4	1238.9
57.5°	3159.1	2983.8	2806.1	2616.1	2411.2	2226.1	2038.6	1851.0	1690.6	1530.2	1396.9
55°	3667.5	3482.4	3282.5	3067.7	2843.2	2606.2	2352.0	2142.2	1922.6	1735.0	1562.3
52.5°	4151.2	3958.7	3751.4	3553.9	3284.9	3013.4	2734.6	2458.1	2201.5	1962.1	1752.3
50°	4583.1	4395.5	4195.6	3966.1	3716.8	3428.1	3117.1	2806.1	2502.6	2221.2	1959.6
47.5°	4978.0	4795.3	4595.4	4365.9	4138.9	3818.0	3504.6	3161.5	2823.4	2500.1	2194.1
45°	5348.2	5163.1	4955.8	4736.1	4474.5	4188.2	3864.9	3519.4	3156.6	2793.8	2440.9
42.5°	5683.8	5498.7	5289.0	5061.9	4802.8	4518.9	4205.5	3857.5	3492.2	3097.4	2709.9
40°	5977.5	5797.4	5595.0	5358.1	5116.2	4817.6	4509.1	4178.3	3800.7	3403.4	2976.4
37.5°	6234.2	6066.4	5866.5	5632.0	5375.3	5108.8	4790.4	4459.7	4119.1	3687.2	3250.4
35°	6461.3	6305.8	6100.9	5878.8	5627.1	5345.7	5047.1	4723.8	4356.0	3951.3	3526.8
32.5°	6658.7	6500.7	6313.2	6091.1	5846.7	5582.6	5276.6	4950.8	4602.8	4190.7	3729.2
30°	6826.5	6673.5	6495.8	6286.0	6051.6	5790.0	5491.3	5163.1	4807.7	4398.0	3941.4
27.5°	6972.1	6826.5	6653.8	6458.8	6234.2	5982.5	5681.4	5350.7	4987.9	4593.0	4136.4
25°	7098.0	6957.3	6796.9	6611.8	6389.7	6142.9	5859.1	5513.5	5150.7	4753.4	4301.7
22.5°	7211.5	7075.8	6915.4	6735.2	6532.8	6286.0	5999.7	5656.7	5289.0	4896.5	4452.3
20°	7312.7	7186.9	7028.9	6843.8	6641.4	6392.2	6108.3	5782.6	5412.4	5027.3	4588.0
17.5°	7394.2	7283.1	7125.2	6930.2	6727.8	6485.9	6209.5	5910.9	5518.5	5138.4	4701.6
15°	7450.9	7342.3	7199.2	7001.8	6804.3	6564.9	6288.5	5980.0	5614.7	5227.3	4795.3
12.5°	7490.4	7374.4	7241.1	7058.5	6861.1	6624.1	6355.1	6051.6	5696.2	5306.2	4876.8
10°	7500.3	7394.2	7260.9	7098.0	6905.5	6676.0	6411.9	6110.8	5762.8	5367.9	4943.4
7.5°	7505.2	7404.0	7283.1	7127.6	6937.6	6715.5	6453.9	6157.7	5812.2	5419.8	4992.8
5°	7502.8	7406.5	7297.9	7147.4	6957.3	6737.7	6481.0	6189.8	5846.7	5454.3	5029.8
2.5°	7495.4	7409.0	7307.8	7162.2	6979.5	6762.4	6508.1	6226.8	5883.7	5483.9	5059.4
0°	7515.1	7441.1	7312.7	7157.2	6984.5	6762.4	6505.7	6231.7	5888.7	5481.5	5057.0



REPORT NUMBER: P628461
 CATALOG NUMBER: IFLD-L-SA7B-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°	61.7	59.2	59.2	56.8	54.3	51.8	46.9	44.4	39.5	32.1	24.7
85°	133.3	125.9	118.5	113.5	108.6	103.7	96.3	88.8	79.0	64.2	49.4
82.5°	234.5	219.7	204.8	187.6	172.8	158.0	145.6	133.3	118.5	96.3	74.0
80°	335.6	313.4	291.2	266.5	244.3	219.7	197.4	177.7	158.0	128.3	98.7
77.5°	436.8	407.2	375.1	345.5	313.4	281.4	249.3	222.1	192.5	158.0	123.4
75°	530.6	496.1	466.5	424.5	385.0	343.1	301.1	264.1	227.1	185.1	148.1
72.5°	624.4	580.0	538.0	498.5	454.1	402.3	355.4	308.5	261.6	212.2	167.8
70°	718.2	663.9	612.1	565.2	515.8	464.0	407.2	352.9	296.2	236.9	185.1
67.5°	814.4	752.7	693.5	634.3	577.5	518.3	459.1	397.4	330.7	261.6	204.8
65°	920.6	844.1	772.5	705.9	639.2	575.0	508.4	441.8	367.7	288.8	222.1
62.5°	1026.7	942.8	858.9	775.0	700.9	629.3	557.8	483.7	402.3	318.4	239.4
60°	1140.2	1044.0	947.7	853.9	762.6	683.6	604.7	525.7	439.3	345.5	256.7
57.5°	1266.1	1150.1	1041.5	935.4	831.7	737.9	651.6	567.6	471.4	372.7	276.4
55°	1409.2	1266.1	1137.8	1019.3	905.8	792.2	698.4	612.1	508.4	399.8	298.6
52.5°	1559.8	1394.4	1238.9	1105.7	984.7	856.4	742.9	646.6	545.4	427.0	318.4
50°	1735.0	1525.2	1352.5	1189.6	1053.8	920.6	789.8	686.1	582.5	459.1	338.1
47.5°	1915.2	1683.2	1466.0	1288.3	1127.9	982.3	844.1	720.7	617.0	488.7	357.9
45°	2125.0	1833.7	1594.3	1384.6	1199.5	1046.4	898.4	757.7	646.6	518.3	377.6
42.5°	2327.3	2011.4	1727.6	1490.7	1280.9	1108.1	947.7	797.2	676.2	547.9	394.9
40°	2566.7	2189.1	1855.9	1591.9	1362.3	1167.4	997.1	839.1	703.4	575.0	412.2
37.5°	2796.3	2369.3	2011.4	1702.9	1441.3	1226.6	1046.4	878.6	728.1	602.2	434.4
35°	3023.3	2569.2	2159.5	1806.6	1522.8	1293.2	1095.8	915.6	752.7	624.4	454.1
32.5°	3240.5	2756.8	2310.1	1922.6	1611.6	1354.9	1140.2	950.2	777.4	644.2	473.9
30°	3442.9	2934.5	2458.1	2041.0	1693.1	1411.7	1182.2	984.7	807.0	661.4	493.6
27.5°	3628.0	3107.2	2606.2	2152.1	1769.6	1463.5	1226.6	1016.8	831.7	678.7	510.9
25°	3795.8	3262.7	2742.0	2253.3	1838.7	1520.3	1268.6	1048.9	853.9	693.5	525.7
22.5°	3953.8	3405.9	2865.4	2354.5	1922.6	1577.1	1308.0	1078.5	876.1	708.3	540.5
20°	4092.0	3536.7	2983.8	2455.7	1996.6	1628.9	1342.6	1105.7	895.9	718.2	555.3
17.5°	4203.0	3652.7	3090.0	2544.5	2060.8	1673.3	1372.2	1130.3	913.2	730.5	565.2
15°	4301.7	3751.4	3178.8	2621.0	2117.6	1710.3	1399.4	1150.1	928.0	737.9	577.5
12.5°	4385.7	3835.3	3255.3	2687.7	2166.9	1742.4	1421.6	1164.9	940.3	745.3	584.9
10°	4454.8	3901.9	3319.5	2739.5	2206.4	1767.1	1438.9	1179.7	950.2	752.7	592.3
7.5°	4506.6	3951.3	3366.4	2783.9	2238.5	1784.4	1453.7	1189.6	960.1	757.7	604.7
5°	4546.1	3993.2	3403.4	2813.5	2263.2	1809.1	1470.9	1201.9	969.9	762.6	604.7
2.5°	4575.7	4027.8	3433.0	2838.2	2282.9	1804.1	1470.9	1199.5	969.9	762.6	602.2
0°	4570.8	4030.3	3430.5	2838.2	2282.9	1799.2	1470.9	1197.0	969.9	762.6	602.2



REPORT NUMBER: P628461
 CATALOG NUMBER: IFLD-L-SA7B-930-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.3	12.3	4.9	0.0
85°	37.0	24.7	12.3	0.0
82.5°	54.3	34.6	17.3	0.0
80°	71.6	46.9	22.2	0.0
77.5°	91.3	59.2	29.6	0.0
75°	108.6	69.1	34.6	0.0
72.5°	125.9	81.4	39.5	0.0
70°	140.7	91.3	44.4	0.0
67.5°	155.5	103.7	51.8	0.0
65°	167.8	113.5	56.8	0.0
62.5°	177.7	125.9	61.7	0.0
60°	190.0	135.7	66.6	0.0
57.5°	199.9	143.1	71.6	0.0
55°	209.8	148.1	76.5	0.0
52.5°	219.7	155.5	81.4	0.0
50°	229.5	162.9	86.4	0.0
47.5°	239.4	167.8	88.8	0.0
45°	254.2	175.2	93.8	0.0
42.5°	266.5	180.2	98.7	0.0
40°	278.9	185.1	101.2	0.0
37.5°	291.2	190.0	106.1	0.0
35°	303.6	195.0	108.6	0.0
32.5°	313.4	199.9	111.1	0.0
30°	323.3	204.8	113.5	0.0
27.5°	333.2	207.3	116.0	0.0
25°	340.6	212.2	118.5	0.0
22.5°	348.0	214.7	120.9	0.0
20°	352.9	217.2	123.4	0.0
17.5°	360.3	219.7	125.9	0.0
15°	362.8	222.1	130.8	0.0
12.5°	367.7	224.6	130.8	0.0
10°	370.2	227.1	130.8	0.0
7.5°	375.1	227.1	130.8	0.0
5°	372.7	227.1	130.8	0.0
2.5°	372.7	227.1	130.8	0.0
0°	370.2	227.1	130.8	0.0

(END OF REPORT)