

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: P623929

Luminaire Tested: **IFLD-S-SA2C-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623929
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

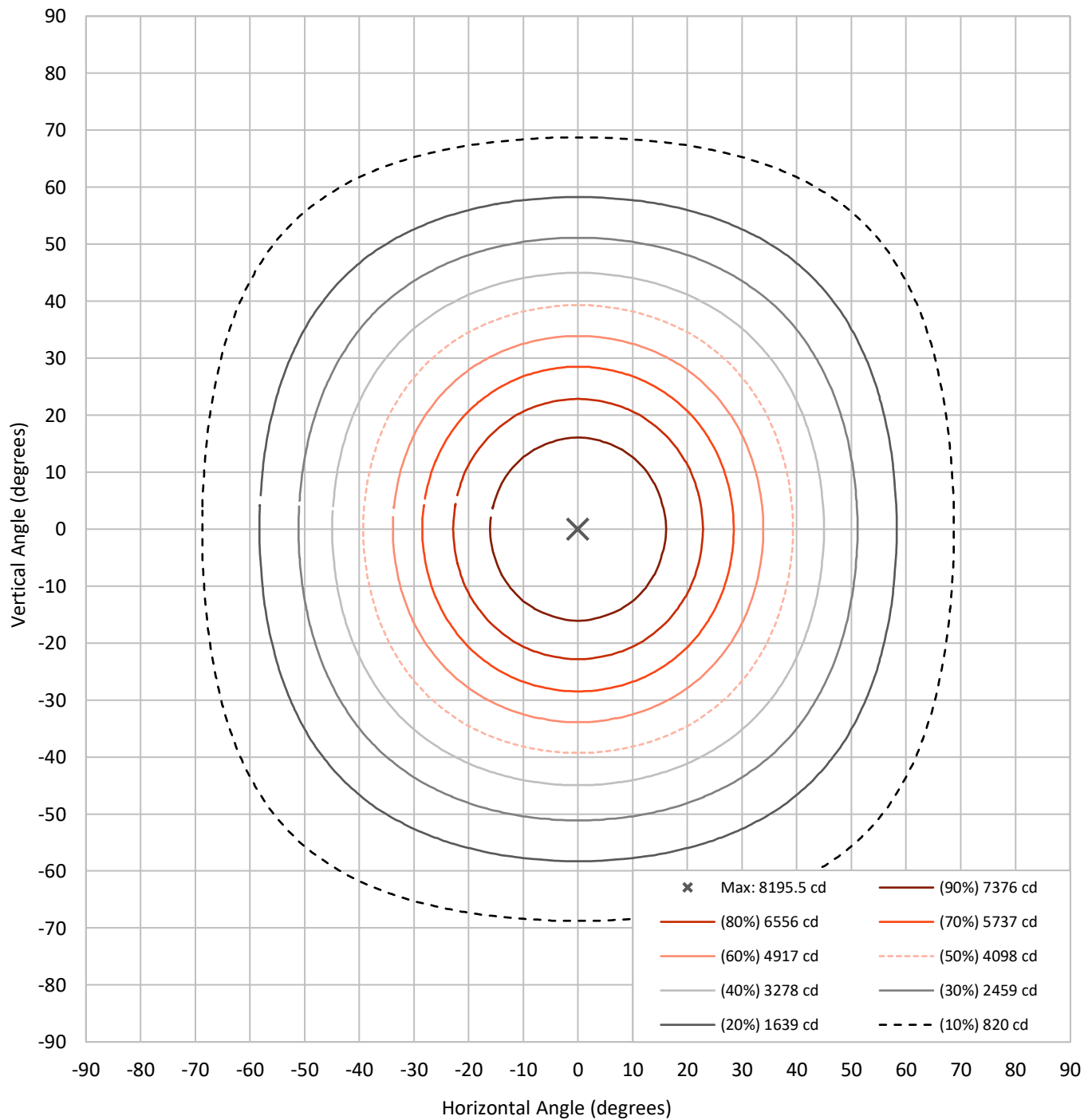
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14756.2 lumens	Max Intensity:	8195.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	136.4 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6384.9 lumens	Field Lumens:	10455 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
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: P623929

CATALOG NUMBER: IFLD-S-SA2C-740-U-77

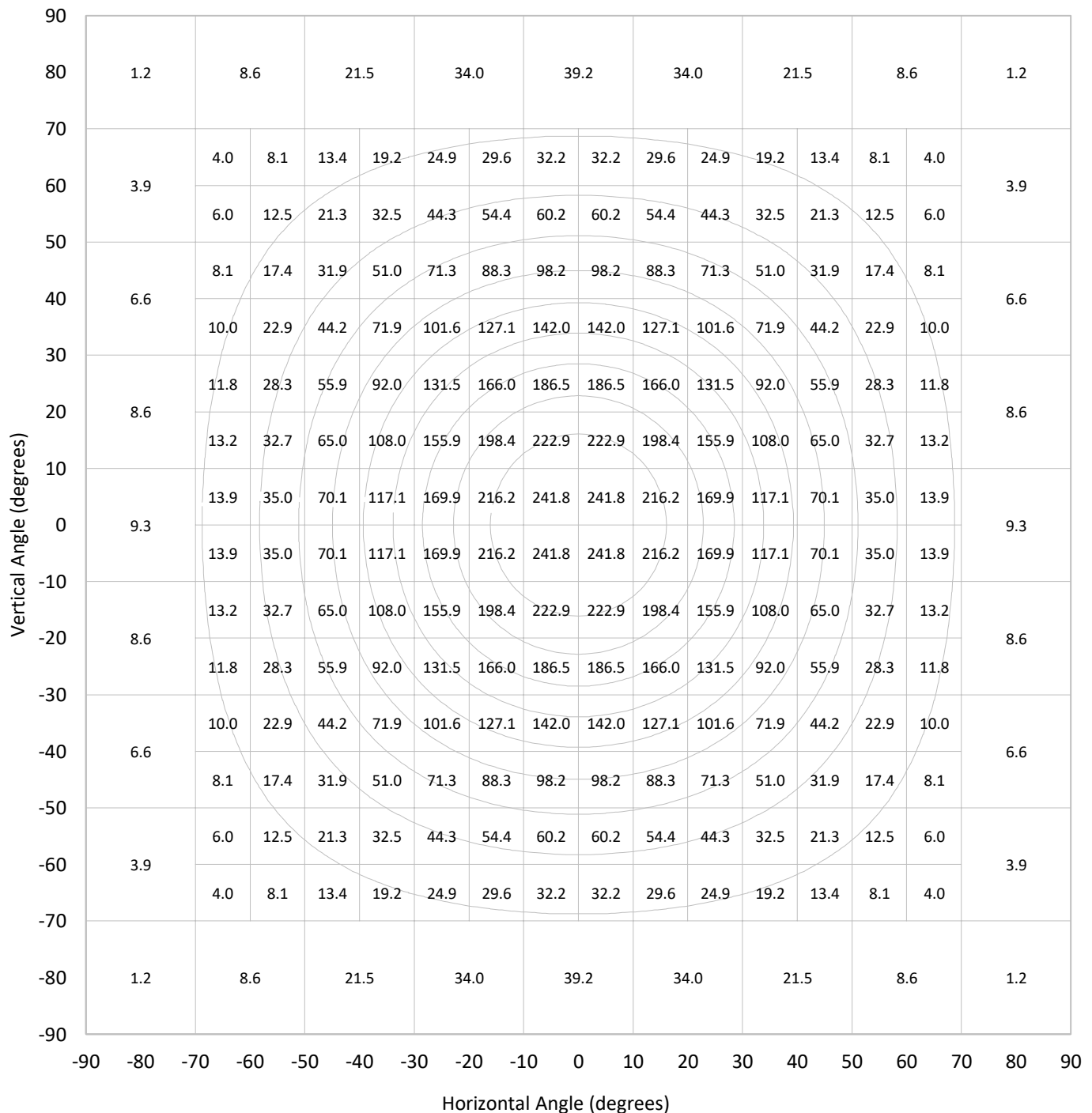
Iso-Candela Plot



REPORT NUMBER: P623929

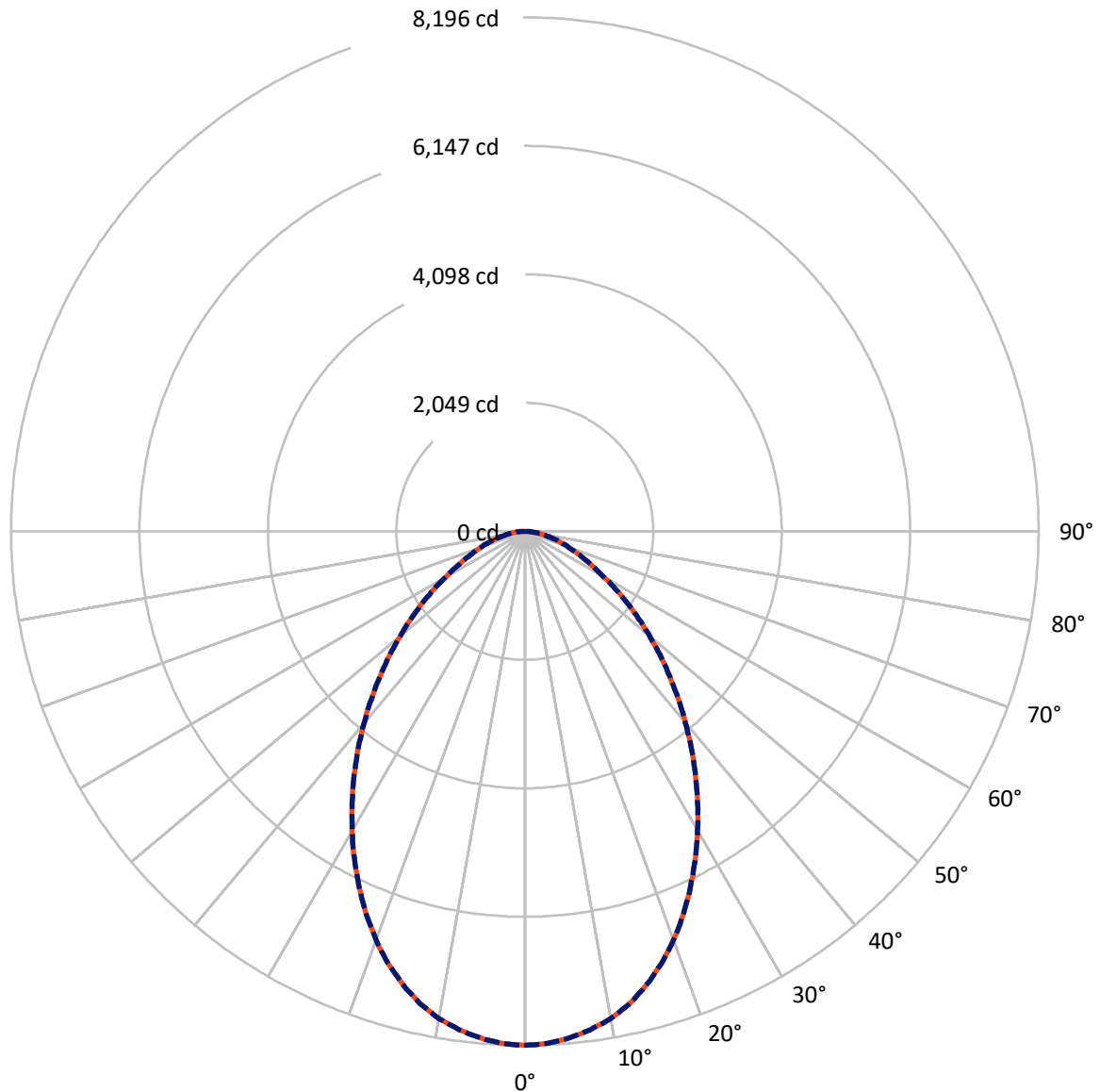
CATALOG NUMBER: IFLD-S-SA2C-740-U-77

Lumen Table



REPORT NUMBER: P623929
CATALOG NUMBER: IFLD-S-SA2C-740-U-77

Luminous Intensity Polar Plot

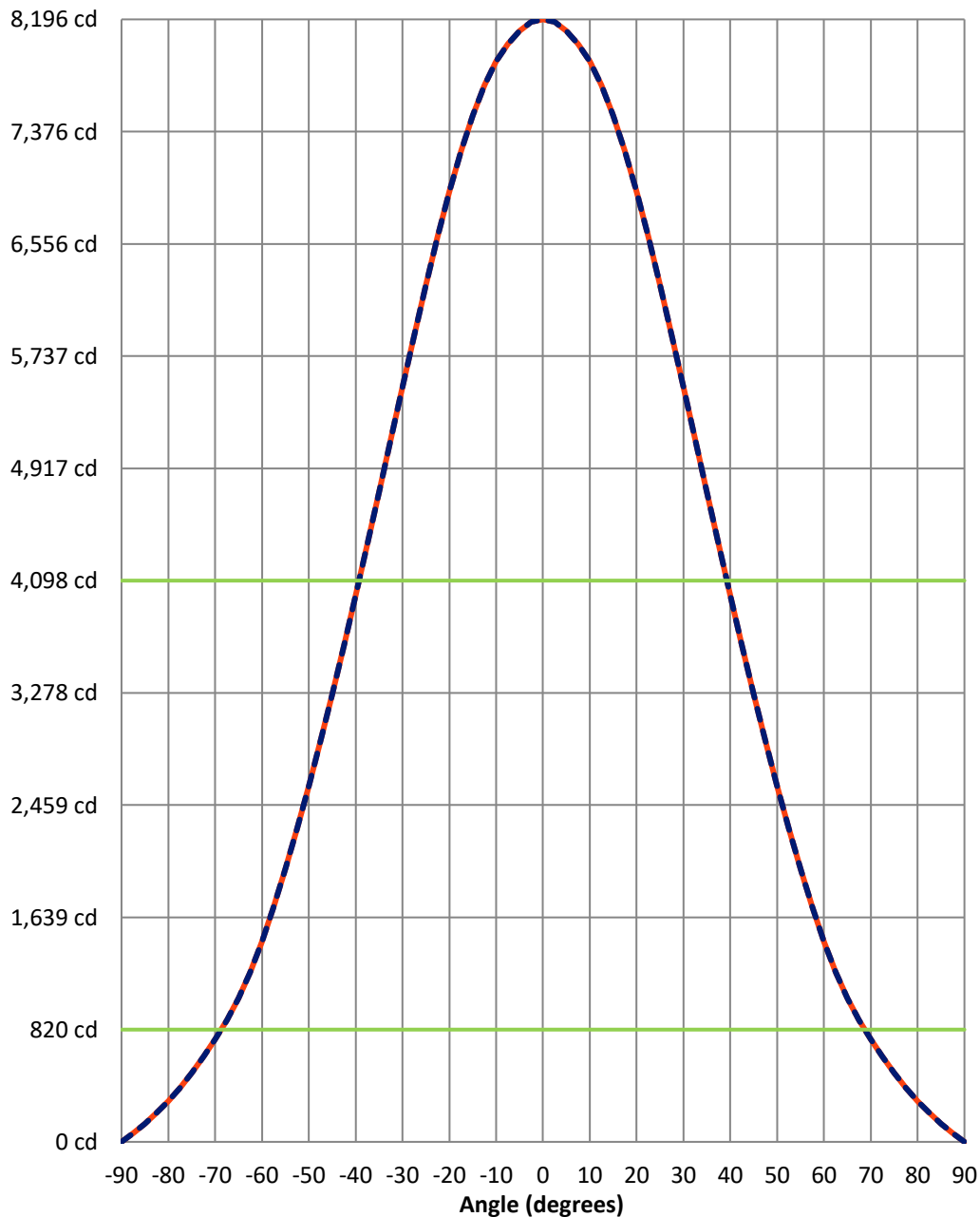


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623929

CATALOG NUMBER: IFLD-S-SA2C-740-U-77

Luminous Intensity Plot



Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	6384.9
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	10455
Efficiency:	70.9%

Spill:

Lumens:	4301.2
Efficiency:	29.1%

REPORT NUMBER: P623929

CATALOG NUMBER: IFLD-S-SA2C-740-U-77

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°	63.1	63.1	63.1	63.1	63.1	63.1	63.1	60.0	60.0	58.5	56.9
85°	132.3	132.3	132.3	132.3	132.3	129.2	127.7	126.2	124.6	121.5	120.0
82.5°	212.3	212.3	212.3	212.3	209.2	206.2	204.6	201.5	198.5	193.8	189.2
80°	296.9	296.9	296.9	296.9	292.3	289.2	284.6	281.5	276.9	270.8	264.6
77.5°	393.9	393.9	393.9	389.2	386.2	381.5	376.9	370.8	364.6	356.9	347.7
75°	503.1	503.1	503.1	496.9	492.3	487.7	480.0	472.3	463.1	452.3	440.0
72.5°	621.5	621.5	621.5	613.9	609.2	601.5	592.3	581.5	570.8	556.9	541.5
70°	749.2	749.2	749.2	740.0	732.3	724.6	712.3	700.0	684.6	669.2	650.8
67.5°	887.7	887.7	887.7	876.9	867.7	856.9	843.1	827.7	809.2	787.7	766.2
65°	1049.2	1049.2	1043.1	1033.9	1023.1	1007.7	990.8	969.2	946.2	918.5	889.2
62.5°	1240.0	1240.0	1230.8	1220.0	1206.2	1186.2	1163.1	1135.4	1103.1	1067.7	1032.3
60°	1461.6	1461.6	1450.8	1436.9	1416.9	1392.3	1361.6	1326.2	1286.2	1241.6	1198.5
57.5°	1717.0	1717.0	1703.1	1684.6	1660.0	1629.3	1590.8	1546.2	1495.4	1440.0	1386.2
55°	1993.9	1993.9	1977.0	1955.4	1926.2	1889.3	1843.1	1790.8	1729.3	1666.2	1596.9
52.5°	2287.7	2287.7	2267.7	2243.1	2209.3	2166.2	2113.9	2052.3	1981.6	1907.7	1826.2
50°	2597.0	2597.0	2573.9	2546.2	2507.7	2457.0	2397.0	2326.2	2247.7	2161.6	2067.7
47.5°	2927.7	2927.7	2901.6	2869.3	2823.1	2764.7	2693.9	2612.3	2523.1	2426.2	2320.0
45°	3267.7	3267.7	3238.5	3201.6	3150.8	3084.7	3006.2	2927.7	2813.9	2701.6	2578.5
42.5°	3621.6	3621.6	3587.8	3546.2	3487.7	3415.4	3326.2	3224.7	3112.4	2986.2	2852.4
40°	3989.3	3989.3	3950.8	3903.1	3838.5	3755.4	3655.4	3541.6	3415.4	3275.4	3127.7
37.5°	4364.7	4364.7	4321.6	4269.3	4197.0	4104.7	3992.4	3866.2	3724.7	3569.3	3406.2
35°	4743.2	4743.2	4695.5	4638.5	4558.5	4457.0	4335.5	4195.5	4038.5	3869.3	3686.2
32.5°	5129.3	5129.3	5077.0	5012.4	4921.6	4809.3	4675.5	4523.2	4364.7	4167.8	3967.8
30°	5510.9	5510.9	5453.9	5383.2	5286.2	5163.2	5017.0	4849.3	4663.2	4461.6	4246.2
27.5°	5886.2	5870.9	5823.2	5747.8	5641.6	5510.9	5352.4	5170.9	4969.3	4747.8	4517.0
25°	6255.5	6238.6	6186.3	6103.2	5989.3	5846.2	5675.5	5481.6	5264.7	5030.9	4778.5
22.5°	6609.3	6590.9	6535.5	6446.3	6324.7	6169.3	5986.3	5778.6	5547.8	5297.0	5030.9
20°	6937.0	6917.0	6860.1	6766.3	6640.1	6475.5	6281.6	6058.6	5812.4	5547.8	5264.7
17.5°	7232.4	7212.4	7152.4	7055.5	6937.0	6754.0	6554.0	6318.6	6058.6	5778.6	5481.6
15°	7492.4	7470.9	7409.4	7312.4	7177.0	7004.7	6794.0	6554.0	6281.6	5986.3	5675.5
12.5°	7714.0	7692.4	7629.4	7532.4	7392.4	7220.1	7004.7	6754.0	6475.5	6169.3	5846.2
10°	7889.4	7867.8	7807.8	7715.5	7570.9	7392.4	7177.0	6937.0	6640.1	6324.7	5989.3
7.5°	8015.5	7995.5	7940.1	7847.8	7715.5	7532.4	7312.4	7055.5	6766.3	6446.3	6103.2
5°	8110.9	8087.8	8032.4	7940.1	7807.8	7629.4	7409.4	7152.4	6860.1	6535.5	6186.3
2.5°	8177.1	8149.4	8087.8	7995.5	7867.8	7692.4	7470.9	7212.4	6917.0	6590.9	6238.6
0°	8195.5	8177.1	8110.9	8015.5	7889.4	7714.0	7492.4	7232.4	6937.0	6609.3	6255.5

REPORT NUMBER: P623929

CATALOG NUMBER: IFLD-S-SA2C-740-U-77

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°	55.4	55.4	53.8	52.3	50.8	47.7	46.2	44.6	43.1	40.0	38.5
85°	116.9	113.8	110.8	107.7	103.1	100.0	95.4	92.3	87.7	83.1	78.5
82.5°	184.6	180.0	173.8	169.2	163.1	155.4	149.2	141.5	133.8	127.7	120.0
80°	258.5	250.8	243.1	235.4	226.2	216.9	207.7	198.5	187.7	176.9	166.2
77.5°	338.5	327.7	316.9	304.6	293.9	281.5	269.2	256.9	243.1	229.2	215.4
75°	427.7	413.9	398.5	383.1	369.2	352.3	335.4	318.5	300.0	283.1	264.6
72.5°	524.6	507.7	489.2	470.8	450.8	429.2	407.7	384.6	363.1	341.5	318.5
70°	629.2	609.2	586.2	563.1	538.5	512.3	486.2	458.5	430.8	403.1	375.4
67.5°	741.6	716.9	689.2	661.5	630.8	600.0	569.2	536.9	503.1	469.2	436.9
65°	861.6	830.8	798.5	763.1	727.7	692.3	655.4	616.9	578.5	538.5	503.1
62.5°	995.4	956.9	915.4	872.3	832.3	789.2	749.2	701.5	655.4	610.8	566.2
60°	1150.8	1100.0	1049.2	995.4	944.6	889.2	840.0	787.7	735.4	684.6	632.3
57.5°	1324.6	1260.0	1198.5	1133.9	1066.2	1004.6	941.6	878.5	820.0	760.0	703.1
55°	1521.6	1443.1	1366.2	1286.2	1207.7	1130.8	1050.8	980.0	907.7	840.0	773.9
52.5°	1737.0	1647.7	1552.3	1461.6	1361.6	1266.2	1176.9	1087.7	1003.1	921.6	846.2
50°	1967.7	1863.1	1753.9	1643.1	1529.3	1416.9	1309.3	1204.6	1106.2	1010.8	921.6
47.5°	2207.7	2089.3	1964.6	1838.5	1717.0	1580.0	1450.8	1332.3	1213.9	1106.2	1003.1
45°	2453.9	2320.0	2183.1	2040.0	1897.0	1749.3	1606.2	1461.6	1332.3	1204.6	1087.7
42.5°	2707.7	2557.0	2404.7	2246.2	2087.7	1926.2	1764.6	1606.2	1450.8	1309.3	1176.9
40°	2969.3	2803.1	2629.3	2457.0	2287.7	2103.1	1926.2	1749.3	1580.0	1416.9	1266.2
37.5°	3230.8	3049.3	2861.6	2667.7	2473.9	2287.7	2087.7	1897.0	1717.0	1529.3	1361.6
35°	3493.9	3293.9	3090.8	2880.0	2667.7	2457.0	2246.2	2040.0	1838.5	1643.1	1461.6
32.5°	3758.5	3540.1	3315.4	3090.8	2861.6	2629.3	2404.7	2183.1	1964.6	1753.9	1552.3
30°	4018.5	3781.6	3540.1	3293.9	3049.3	2803.1	2557.0	2320.0	2089.3	1863.1	1647.7
27.5°	4272.4	4018.5	3758.5	3493.9	3230.8	2969.3	2707.7	2453.9	2207.7	1967.7	1737.0
25°	4517.0	4246.2	3967.8	3686.2	3406.2	3127.7	2852.4	2578.5	2320.0	2067.7	1826.2
22.5°	4747.8	4461.6	4167.8	3869.3	3569.3	3275.4	2986.2	2701.6	2426.2	2161.6	1907.7
20°	4969.3	4663.2	4364.7	4038.5	3724.7	3415.4	3112.4	2813.9	2523.1	2247.7	1981.6
17.5°	5170.9	4849.3	4523.2	4195.5	3866.2	3541.6	3224.7	2927.7	2612.3	2326.2	2052.3
15°	5352.4	5017.0	4675.5	4335.5	3992.4	3655.4	3326.2	3006.2	2693.9	2397.0	2113.9
12.5°	5510.9	5163.2	4809.3	4457.0	4104.7	3755.4	3415.4	3084.7	2764.7	2457.0	2166.2
10°	5641.6	5286.2	4921.6	4558.5	4197.0	3838.5	3487.7	3150.8	2823.1	2507.7	2209.3
7.5°	5747.8	5383.2	5012.4	4638.5	4269.3	3903.1	3546.2	3201.6	2869.3	2546.2	2243.1
5°	5823.2	5453.9	5077.0	4695.5	4321.6	3950.8	3587.8	3238.5	2901.6	2573.9	2267.7
2.5°	5870.9	5510.9	5129.3	4743.2	4364.7	3989.3	3621.6	3267.7	2927.7	2597.0	2287.7
0°	5886.2	5510.9	5129.3	4743.2	4364.7	3989.3	3621.6	3267.7	2927.7	2597.0	2287.7

REPORT NUMBER: P623929

CATALOG NUMBER: IFLD-S-SA2C-740-U-77

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°	36.9	33.8	30.8	29.2	26.2	24.6	21.5	18.5	16.9	13.8	10.8
85°	73.8	67.7	63.1	58.5	53.8	47.7	43.1	38.5	32.3	27.7	21.5
82.5°	112.3	104.6	96.9	89.2	81.5	73.8	64.6	56.9	49.2	41.5	32.3
80°	155.4	143.1	132.3	121.5	110.8	100.0	87.7	76.9	64.6	53.8	43.1
77.5°	200.0	186.2	170.8	155.4	140.0	126.2	110.8	96.9	83.1	67.7	53.8
75°	247.7	229.2	212.3	192.3	173.8	153.8	135.4	116.9	100.0	83.1	64.6
72.5°	296.9	273.9	250.8	229.2	206.2	183.1	161.5	138.5	116.9	96.9	76.9
70°	347.7	320.0	292.3	266.2	240.0	212.3	187.7	161.5	135.4	110.8	87.7
67.5°	401.5	369.2	336.9	303.1	273.9	243.1	212.3	183.1	153.8	126.2	100.0
65°	460.0	421.5	381.5	346.2	307.7	273.9	240.0	206.2	173.8	140.0	110.8
62.5°	520.0	475.4	430.8	386.2	346.2	303.1	266.2	229.2	192.3	155.4	121.5
60°	581.5	530.8	480.0	430.8	381.5	336.9	292.3	250.8	212.3	170.8	132.3
57.5°	644.6	587.7	530.8	475.4	421.5	369.2	320.0	273.9	229.2	186.2	143.1
55°	709.2	644.6	581.5	520.0	460.0	401.5	347.7	296.9	247.7	200.0	155.4
52.5°	773.9	703.1	632.3	566.2	503.1	436.9	375.4	318.5	264.6	215.4	166.2
50°	840.0	760.0	684.6	610.8	538.5	469.2	403.1	341.5	283.1	229.2	176.9
47.5°	907.7	820.0	735.4	655.4	578.5	503.1	430.8	363.1	300.0	243.1	187.7
45°	980.0	878.5	787.7	701.5	616.9	536.9	458.5	384.6	318.5	256.9	198.5
42.5°	1050.8	941.6	840.0	749.2	655.4	569.2	486.2	407.7	335.4	269.2	207.7
40°	1130.8	1004.6	889.2	789.2	692.3	600.0	512.3	429.2	352.3	281.5	216.9
37.5°	1207.7	1066.2	944.6	832.3	727.7	630.8	538.5	450.8	369.2	293.9	226.2
35°	1286.2	1133.9	995.4	872.3	763.1	661.5	563.1	470.8	383.1	304.6	235.4
32.5°	1366.2	1198.5	1049.2	915.4	798.5	689.2	586.2	489.2	398.5	316.9	243.1
30°	1443.1	1260.0	1100.0	956.9	830.8	716.9	609.2	507.7	413.9	327.7	250.8
27.5°	1521.6	1324.6	1150.8	995.4	861.6	741.6	629.2	524.6	427.7	338.5	258.5
25°	1596.9	1386.2	1198.5	1032.3	889.2	766.2	650.8	541.5	440.0	347.7	264.6
22.5°	1666.2	1440.0	1241.6	1067.7	918.5	787.7	669.2	556.9	452.3	356.9	270.8
20°	1729.3	1495.4	1286.2	1103.1	946.2	809.2	684.6	570.8	463.1	364.6	276.9
17.5°	1790.8	1546.2	1326.2	1135.4	969.2	827.7	700.0	581.5	472.3	370.8	281.5
15°	1843.1	1590.8	1361.6	1163.1	990.8	843.1	712.3	592.3	480.0	376.9	284.6
12.5°	1889.3	1629.3	1392.3	1186.2	1007.7	856.9	724.6	601.5	487.7	381.5	289.2
10°	1926.2	1660.0	1416.9	1206.2	1023.1	867.7	732.3	609.2	492.3	386.2	292.3
7.5°	1955.4	1684.6	1436.9	1220.0	1033.9	876.9	740.0	613.9	496.9	389.2	296.9
5°	1977.0	1703.1	1450.8	1230.8	1043.1	887.7	749.2	621.5	503.1	393.9	296.9
2.5°	1993.9	1717.0	1461.6	1240.0	1049.2	887.7	749.2	621.5	503.1	393.9	296.9
0°	1993.9	1717.0	1461.6	1240.0	1049.2	887.7	749.2	621.5	503.1	393.9	296.9

REPORT NUMBER: P623929

CATALOG NUMBER: IFLD-S-SA2C-740-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.7	6.2	3.1	0.0
85°	16.9	10.8	6.2	0.0
82.5°	24.6	16.9	7.7	0.0
80°	32.3	21.5	10.8	0.0
77.5°	41.5	27.7	13.8	0.0
75°	49.2	32.3	16.9	0.0
72.5°	56.9	38.5	18.5	0.0
70°	64.6	43.1	21.5	0.0
67.5°	73.8	47.7	24.6	0.0
65°	81.5	53.8	26.2	0.0
62.5°	89.2	58.5	29.2	0.0
60°	96.9	63.1	30.8	0.0
57.5°	104.6	67.7	33.8	0.0
55°	112.3	73.8	36.9	0.0
52.5°	120.0	78.5	38.5	0.0
50°	127.7	83.1	40.0	0.0
47.5°	133.8	87.7	43.1	0.0
45°	141.5	92.3	44.6	0.0
42.5°	149.2	95.4	46.2	0.0
40°	155.4	100.0	47.7	0.0
37.5°	163.1	103.1	50.8	0.0
35°	169.2	107.7	52.3	0.0
32.5°	173.8	110.8	53.8	0.0
30°	180.0	113.8	55.4	0.0
27.5°	184.6	116.9	55.4	0.0
25°	189.2	120.0	56.9	0.0
22.5°	193.8	121.5	58.5	0.0
20°	198.5	124.6	60.0	0.0
17.5°	201.5	126.2	60.0	0.0
15°	204.6	127.7	63.1	0.0
12.5°	206.2	129.2	63.1	0.0
10°	209.2	132.3	63.1	0.0
7.5°	212.3	132.3	63.1	0.0
5°	212.3	132.3	63.1	0.0
2.5°	212.3	132.3	63.1	0.0
0°	212.3	132.3	63.1	0.0

(END OF REPORT)