

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: P623395

Luminaire Tested: **IFLD-M-SA4E-735-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623395
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	37077.5 lumens	Max Intensity:	119891.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	117.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

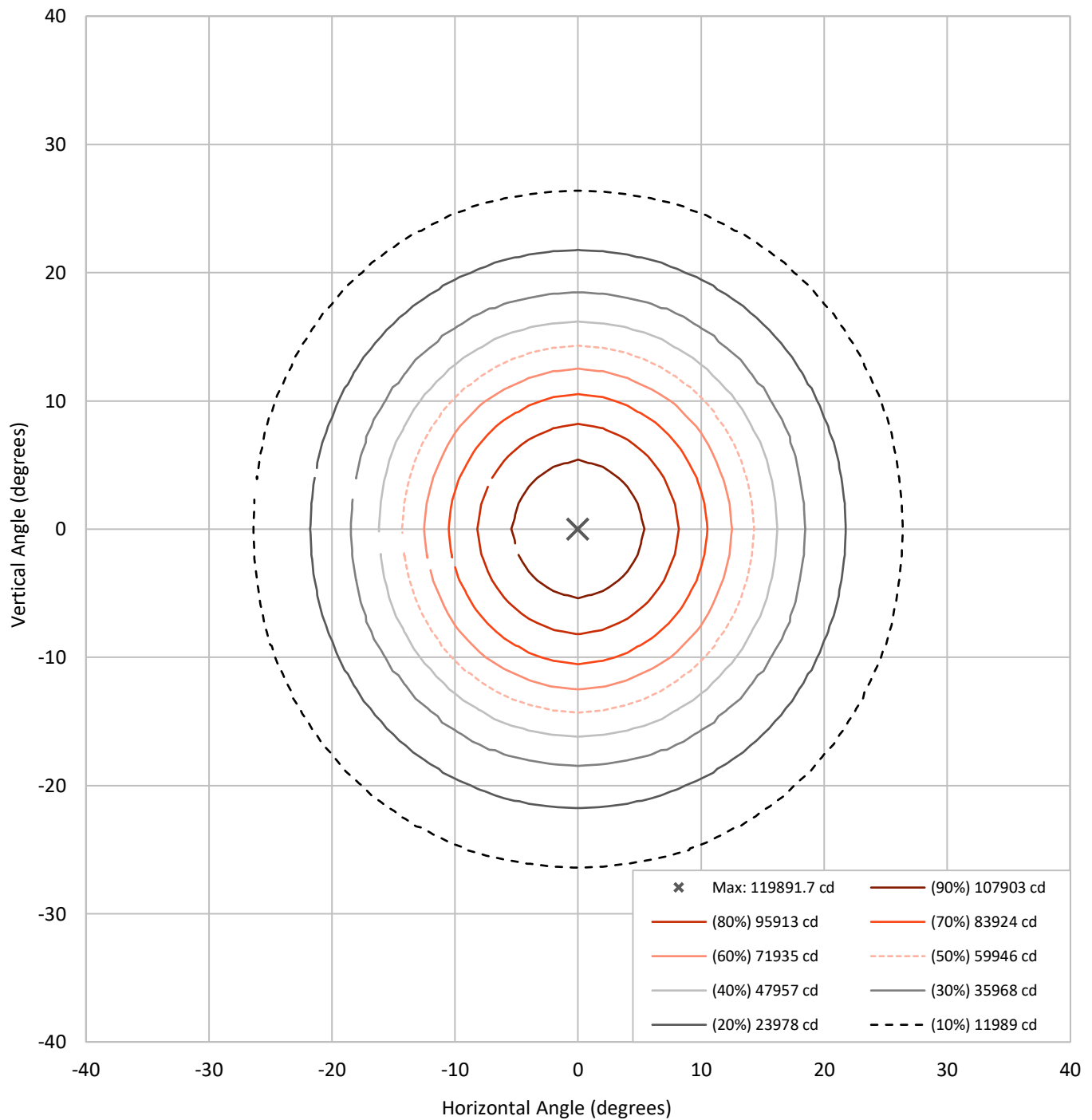
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	13378.2 lumens	Field Lumens:	22591 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 314.8
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



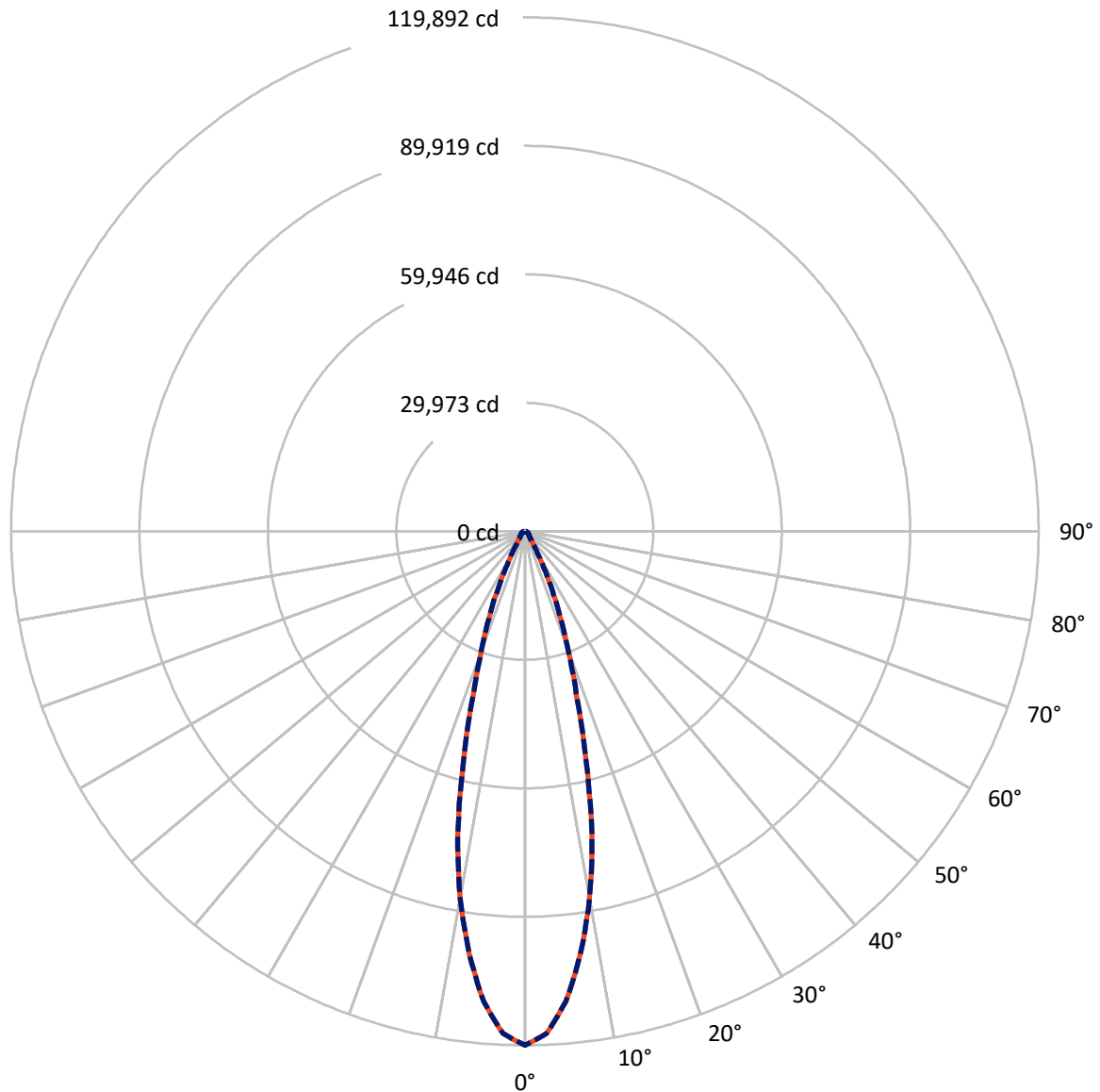
REPORT NUMBER: P623395
CATALOG NUMBER: IFLD-M-SA4E-735-U-44

Iso-Candela Plot



REPORT NUMBER: P623395
CATALOG NUMBER: IFLD-M-SA4E-735-U-44

Luminous Intensity Polar Plot

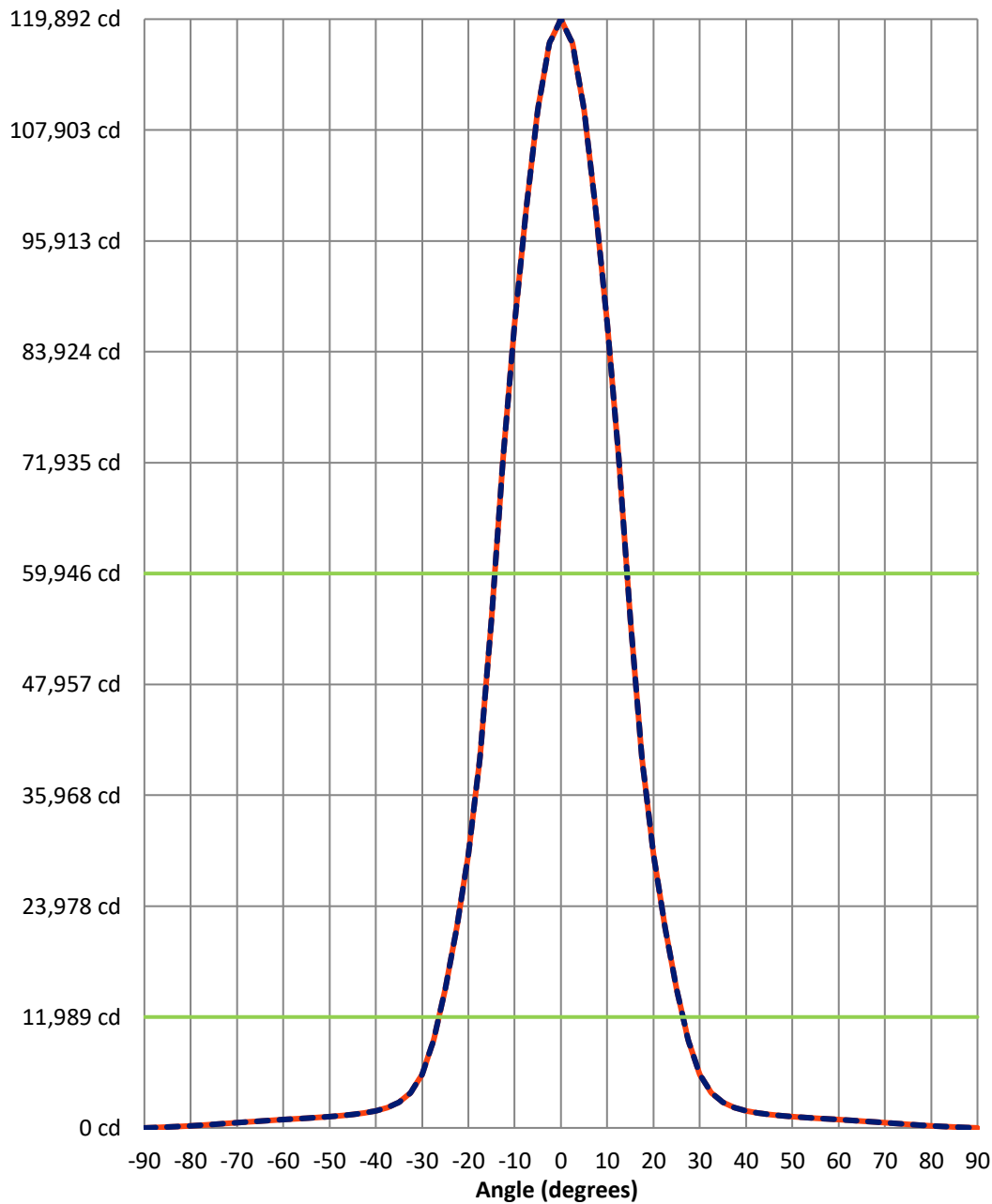


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



REPORT NUMBER: P623395
CATALOG NUMBER: IFLD-M-SA4E-735-U-44

Luminous Intensity Plot



Beam:
H Angle: 28.6°
V Angle: 28.6°
Lumens: 13378.2
Efficiency: 36.1%

Field:
H Angle: 52.7°
V Angle: 52.7°
Lumens: 22591
Efficiency: 60.9%

Spill:
Lumens: 14486.5
Efficiency: 39.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

REPORT NUMBER: P623395

CATALOG NUMBER: IFLD-M-SA4E-735-U-44

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°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	38.7	38.7	38.7	38.7
85°	96.6	96.6	96.6	96.6	96.6	92.8	92.8	92.8	88.9	88.9	85.0
82.5°	154.6	154.6	154.6	154.6	150.8	150.8	146.9	146.9	143.0	143.0	139.2
80°	220.3	220.3	220.3	220.3	216.5	212.6	212.6	208.7	204.9	201.0	197.2
77.5°	297.7	297.7	297.7	293.8	289.9	289.9	286.1	278.3	274.5	266.7	262.9
75°	382.7	382.7	382.7	378.8	375.0	371.1	363.4	359.5	351.8	344.0	332.5
72.5°	475.5	475.5	475.5	471.6	463.9	460.0	452.3	444.6	436.8	425.2	413.6
70°	564.4	564.4	564.4	556.7	552.8	545.1	537.3	529.6	518.0	506.4	494.8
67.5°	653.3	653.3	653.3	645.6	641.7	634.0	626.2	614.7	603.1	587.6	576.0
65°	734.5	734.5	730.6	726.8	722.9	715.2	703.6	695.8	684.2	668.8	653.3
62.5°	819.5	819.5	815.7	811.8	804.1	796.3	784.7	773.1	757.7	742.2	726.8
60°	904.6	904.6	900.7	896.8	889.1	877.5	865.9	854.3	838.9	819.5	800.2
57.5°	974.2	974.2	970.3	966.4	958.7	951.0	939.4	927.8	912.3	896.8	873.7
55°	1047.6	1047.6	1043.7	1036.0	1028.3	1020.6	1009.0	993.5	978.0	958.7	943.2
52.5°	1132.7	1132.7	1128.8	1121.1	1109.5	1097.9	1082.4	1063.1	1043.7	1024.4	1001.2
50°	1217.7	1217.7	1210.0	1202.2	1194.5	1179.0	1163.6	1144.3	1121.1	1097.9	1070.8
47.5°	1322.1	1322.1	1314.3	1302.8	1287.3	1271.8	1248.6	1221.6	1198.4	1171.3	1140.4
45°	1449.6	1449.6	1438.1	1426.5	1407.1	1380.1	1353.0	1322.1	1287.3	1252.5	1213.8
42.5°	1615.9	1615.9	1600.4	1581.1	1554.0	1519.2	1476.7	1434.2	1391.7	1345.3	1298.9
40°	1840.1	1840.1	1816.9	1789.8	1747.3	1697.1	1635.2	1577.2	1519.2	1453.5	1395.5
37.5°	2191.9	2191.9	2153.2	2103.0	2033.4	1948.3	1844.0	1766.6	1677.7	1592.7	1515.4
35°	2767.9	2767.9	2698.3	2609.4	2485.7	2331.0	2164.8	2033.4	1886.5	1766.6	1654.5
32.5°	3792.3	3792.3	3653.1	3479.2	3243.3	2941.8	2663.5	2431.5	2191.9	2006.3	1828.5
30°	5775.4	5775.4	5477.7	5110.5	4604.1	3970.1	3494.6	3050.1	2644.2	2338.8	2079.8
27.5°	9498.1	9343.5	8879.6	8118.0	7074.3	5775.4	4948.1	4008.8	3367.0	2783.3	2423.8
25°	14995.2	14740.0	13974.6	12726.0	11025.1	9096.1	7406.7	5624.6	4499.7	3529.4	2860.6
22.5°	21675.1	21323.4	20283.5	18586.4	16286.3	13719.5	10986.4	8423.4	6142.6	4665.9	3529.4
20°	29584.4	29112.8	27717.3	25451.9	22405.8	19139.2	15490.0	12057.2	8767.5	6142.6	4499.7
17.5°	40025.7	39306.7	37192.2	33790.3	29584.4	25181.3	20619.8	16189.7	12057.2	8423.4	5624.6
15°	55036.4	53822.5	50273.8	44637.6	38089.0	31950.2	26132.3	20619.8	15490.0	10986.4	7406.7
12.5°	72389.6	70700.3	65810.1	58183.1	49284.2	39577.3	31950.2	25181.3	19139.2	13719.5	9096.1
10°	87009.8	85227.7	80175.2	72524.9	61240.9	49284.2	38089.0	29584.4	22405.8	16286.3	11025.1
7.5°	99360.8	97366.1	91919.3	83550.0	72524.9	58183.1	44637.6	33790.3	25451.9	18586.4	12726.0
5°	110088.2	107560.0	101220.2	91919.3	80175.2	65810.1	50273.8	37192.2	27717.3	20283.5	13974.6
2.5°	117255.2	114286.4	107560.0	97366.1	85227.7	70700.3	53822.5	39306.7	29112.8	21323.4	14740.0
0°	119891.7	117255.2	110088.2	99360.8	87009.8	72389.6	55036.4	40025.7	29584.4	21675.1	14995.2

REPORT NUMBER: P623395

CATALOG NUMBER: IFLD-M-SA4E-735-U-44

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°	38.7	38.7	34.8	34.8	34.8	30.9	30.9	30.9	27.1	27.1	27.1
85°	85.0	81.2	81.2	77.3	73.4	69.6	69.6	65.7	61.9	58.0	54.1
82.5°	135.3	131.4	127.6	123.7	119.8	112.1	108.2	104.4	96.6	92.8	88.9
80°	189.4	185.6	177.8	174.0	166.2	158.5	150.8	143.0	135.3	127.6	119.8
77.5°	255.1	243.5	235.8	228.1	216.5	208.7	197.2	189.4	177.8	166.2	154.6
75°	324.7	313.1	301.5	289.9	278.3	262.9	251.3	235.8	224.2	208.7	197.2
72.5°	402.0	386.6	371.1	355.6	340.2	324.7	309.3	289.9	274.5	255.1	235.8
70°	479.4	463.9	448.4	429.1	409.8	390.4	371.1	347.9	328.6	305.4	282.2
67.5°	560.5	541.2	521.9	502.5	483.2	460.0	433.0	409.8	382.7	355.6	332.5
65°	637.8	618.5	595.3	572.1	548.9	525.7	498.7	471.6	440.7	409.8	382.7
62.5°	707.4	688.1	668.8	641.7	618.5	591.5	564.4	529.6	498.7	467.8	433.0
60°	780.9	757.7	734.5	707.4	680.4	653.3	622.4	587.6	556.7	518.0	483.2
57.5°	850.5	827.3	800.2	773.1	742.2	711.3	680.4	645.6	610.8	572.1	533.5
55°	920.0	896.8	869.8	838.9	804.1	769.3	734.5	699.7	664.9	622.4	579.9
52.5°	978.0	954.8	927.8	904.6	865.9	831.1	792.5	750.0	711.3	668.8	626.2
50°	1039.9	1012.8	981.9	954.8	923.9	889.1	846.6	804.1	757.7	715.2	668.8
47.5°	1109.5	1074.7	1039.9	1005.1	974.2	935.5	900.7	854.3	807.9	757.7	711.3
45°	1179.0	1140.4	1101.7	1059.2	1020.6	981.9	943.2	904.6	854.3	804.1	750.0
42.5°	1252.5	1206.1	1163.6	1121.1	1074.7	1028.3	985.8	943.2	900.7	846.6	792.5
40°	1337.5	1283.4	1229.3	1179.0	1132.7	1078.5	1028.3	981.9	935.5	889.1	831.1
37.5°	1434.2	1368.5	1302.8	1240.9	1182.9	1132.7	1074.7	1020.6	974.2	923.9	865.9
35°	1557.9	1461.2	1383.9	1306.6	1240.9	1179.0	1121.1	1059.2	1005.1	954.8	904.6
32.5°	1697.1	1577.2	1472.8	1383.9	1302.8	1229.3	1163.6	1101.7	1039.9	981.9	927.8
30°	1867.1	1712.5	1577.2	1461.2	1368.5	1283.4	1206.1	1140.4	1074.7	1012.8	954.8
27.5°	2106.8	1867.1	1697.1	1557.9	1434.2	1337.5	1252.5	1179.0	1109.5	1039.9	978.0
25°	2423.8	2079.8	1828.5	1654.5	1515.4	1395.5	1298.9	1213.8	1140.4	1070.8	1001.2
22.5°	2783.3	2338.8	2006.3	1766.6	1592.7	1453.5	1345.3	1252.5	1171.3	1097.9	1024.4
20°	3367.0	2644.2	2191.9	1886.5	1677.7	1519.2	1391.7	1287.3	1198.4	1121.1	1043.7
17.5°	4008.8	3050.1	2431.5	2033.4	1766.6	1577.2	1434.2	1322.1	1221.6	1144.3	1063.1
15°	4948.1	3494.6	2663.5	2164.8	1844.0	1635.2	1476.7	1353.0	1248.6	1163.6	1082.4
12.5°	5775.4	3970.1	2941.8	2331.0	1948.3	1697.1	1519.2	1380.1	1271.8	1179.0	1097.9
10°	7074.3	4604.1	3243.3	2485.7	2033.4	1747.3	1554.0	1407.1	1287.3	1194.5	1109.5
7.5°	8118.0	5110.5	3479.2	2609.4	2103.0	1789.8	1581.1	1426.5	1302.8	1202.2	1121.1
5°	8879.6	5477.7	3653.1	2698.3	2153.2	1816.9	1600.4	1438.1	1314.3	1210.0	1128.8
2.5°	9343.5	5775.4	3792.3	2767.9	2191.9	1840.1	1615.9	1449.6	1322.1	1217.7	1132.7
0°	9498.1	5775.4	3792.3	2767.9	2191.9	1840.1	1615.9	1449.6	1322.1	1217.7	1132.7

REPORT NUMBER: P623395

CATALOG NUMBER: IFLD-M-SA4E-735-U-44

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°	23.2	23.2	19.3	19.3	19.3	15.5	15.5	11.6	11.6	7.7	7.7
85°	50.3	46.4	42.5	38.7	34.8	30.9	30.9	27.1	23.2	19.3	15.5
82.5°	81.2	77.3	69.6	61.9	58.0	50.3	42.5	38.7	34.8	27.1	23.2
80°	112.1	104.4	96.6	88.9	81.2	69.6	61.9	54.1	42.5	34.8	30.9
77.5°	146.9	135.3	123.7	112.1	100.5	92.8	81.2	69.6	58.0	46.4	34.8
75°	181.7	166.2	154.6	139.2	127.6	112.1	96.6	85.0	73.4	58.0	42.5
72.5°	220.3	201.0	185.6	166.2	150.8	135.3	116.0	100.5	85.0	69.6	54.1
70°	262.9	239.7	216.5	197.2	177.8	154.6	135.3	116.0	96.6	81.2	61.9
67.5°	305.4	278.3	251.3	224.2	201.0	177.8	154.6	135.3	112.1	92.8	69.6
65°	347.9	317.0	289.9	259.0	228.1	201.0	177.8	150.8	127.6	100.5	81.2
62.5°	394.3	359.5	324.7	289.9	259.0	224.2	197.2	166.2	139.2	112.1	88.9
60°	444.6	405.9	363.4	324.7	289.9	251.3	216.5	185.6	154.6	123.7	96.6
57.5°	490.9	448.4	405.9	359.5	317.0	278.3	239.7	201.0	166.2	135.3	104.4
55°	537.3	490.9	444.6	394.3	347.9	305.4	262.9	220.3	181.7	146.9	112.1
52.5°	579.9	533.5	483.2	433.0	382.7	332.5	282.2	235.8	197.2	154.6	119.8
50°	622.4	572.1	518.0	467.8	409.8	355.6	305.4	255.1	208.7	166.2	127.6
47.5°	664.9	610.8	556.7	498.7	440.7	382.7	328.6	274.5	224.2	177.8	135.3
45°	699.7	645.6	587.6	529.6	471.6	409.8	347.9	289.9	235.8	189.4	143.0
42.5°	734.5	680.4	622.4	564.4	498.7	433.0	371.1	309.3	251.3	197.2	150.8
40°	769.3	711.3	653.3	591.5	525.7	460.0	390.4	324.7	262.9	208.7	158.5
37.5°	804.1	742.2	680.4	618.5	548.9	483.2	409.8	340.2	278.3	216.5	166.2
35°	838.9	773.1	707.4	641.7	572.1	502.5	429.1	355.6	289.9	228.1	174.0
32.5°	869.8	800.2	734.5	668.8	595.3	521.9	448.4	371.1	301.5	235.8	177.8
30°	896.8	827.3	757.7	688.1	618.5	541.2	463.9	386.6	313.1	243.5	185.6
27.5°	920.0	850.5	780.9	707.4	637.8	560.5	479.4	402.0	324.7	255.1	189.4
25°	943.2	873.7	800.2	726.8	653.3	576.0	494.8	413.6	332.5	262.9	197.2
22.5°	958.7	896.8	819.5	742.2	668.8	587.6	506.4	425.2	344.0	266.7	201.0
20°	978.0	912.3	838.9	757.7	684.2	603.1	518.0	436.8	351.8	274.5	204.9
17.5°	993.5	927.8	854.3	773.1	695.8	614.7	529.6	444.6	359.5	278.3	208.7
15°	1009.0	939.4	865.9	784.7	703.6	626.2	537.3	452.3	363.4	286.1	212.6
12.5°	1020.6	951.0	877.5	796.3	715.2	634.0	545.1	460.0	371.1	289.9	212.6
10°	1028.3	958.7	889.1	804.1	722.9	641.7	552.8	463.9	375.0	289.9	216.5
7.5°	1036.0	966.4	896.8	811.8	726.8	645.6	556.7	471.6	378.8	293.8	220.3
5°	1043.7	970.3	900.7	815.7	730.6	653.3	564.4	475.5	382.7	297.7	220.3
2.5°	1047.6	974.2	904.6	819.5	734.5	653.3	564.4	475.5	382.7	297.7	220.3
0°	1047.6	974.2	904.6	819.5	734.5	653.3	564.4	475.5	382.7	297.7	220.3

REPORT NUMBER: P623395
 CATALOG NUMBER: IFLD-M-SA4E-735-U-44

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	0.0	0.0
85°	11.6	7.7	3.9	0.0
82.5°	15.5	11.6	3.9	0.0
80°	23.2	15.5	7.7	0.0
77.5°	27.1	19.3	7.7	0.0
75°	34.8	23.2	11.6	0.0
72.5°	38.7	27.1	11.6	0.0
70°	42.5	30.9	15.5	0.0
67.5°	50.3	30.9	15.5	0.0
65°	58.0	34.8	19.3	0.0
62.5°	61.9	38.7	19.3	0.0
60°	69.6	42.5	19.3	0.0
57.5°	77.3	46.4	23.2	0.0
55°	81.2	50.3	23.2	0.0
52.5°	88.9	54.1	27.1	0.0
50°	92.8	58.0	27.1	0.0
47.5°	96.6	61.9	27.1	0.0
45°	104.4	65.7	30.9	0.0
42.5°	108.2	69.6	30.9	0.0
40°	112.1	69.6	30.9	0.0
37.5°	119.8	73.4	34.8	0.0
35°	123.7	77.3	34.8	0.0
32.5°	127.6	81.2	34.8	0.0
30°	131.4	81.2	38.7	0.0
27.5°	135.3	85.0	38.7	0.0
25°	139.2	85.0	38.7	0.0
22.5°	143.0	88.9	38.7	0.0
20°	143.0	88.9	38.7	0.0
17.5°	146.9	92.8	38.7	0.0
15°	146.9	92.8	42.5	0.0
12.5°	150.8	92.8	42.5	0.0
10°	150.8	96.6	42.5	0.0
7.5°	154.6	96.6	42.5	0.0
5°	154.6	96.6	42.5	0.0
2.5°	154.6	96.6	42.5	0.0
0°	154.6	96.6	42.5	0.0

(END OF REPORT)