

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: P640046

Luminaire Tested: **IFLD-L-SA8A-AMB-U-66**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640046
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-AMB-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens
Light Source: (128) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

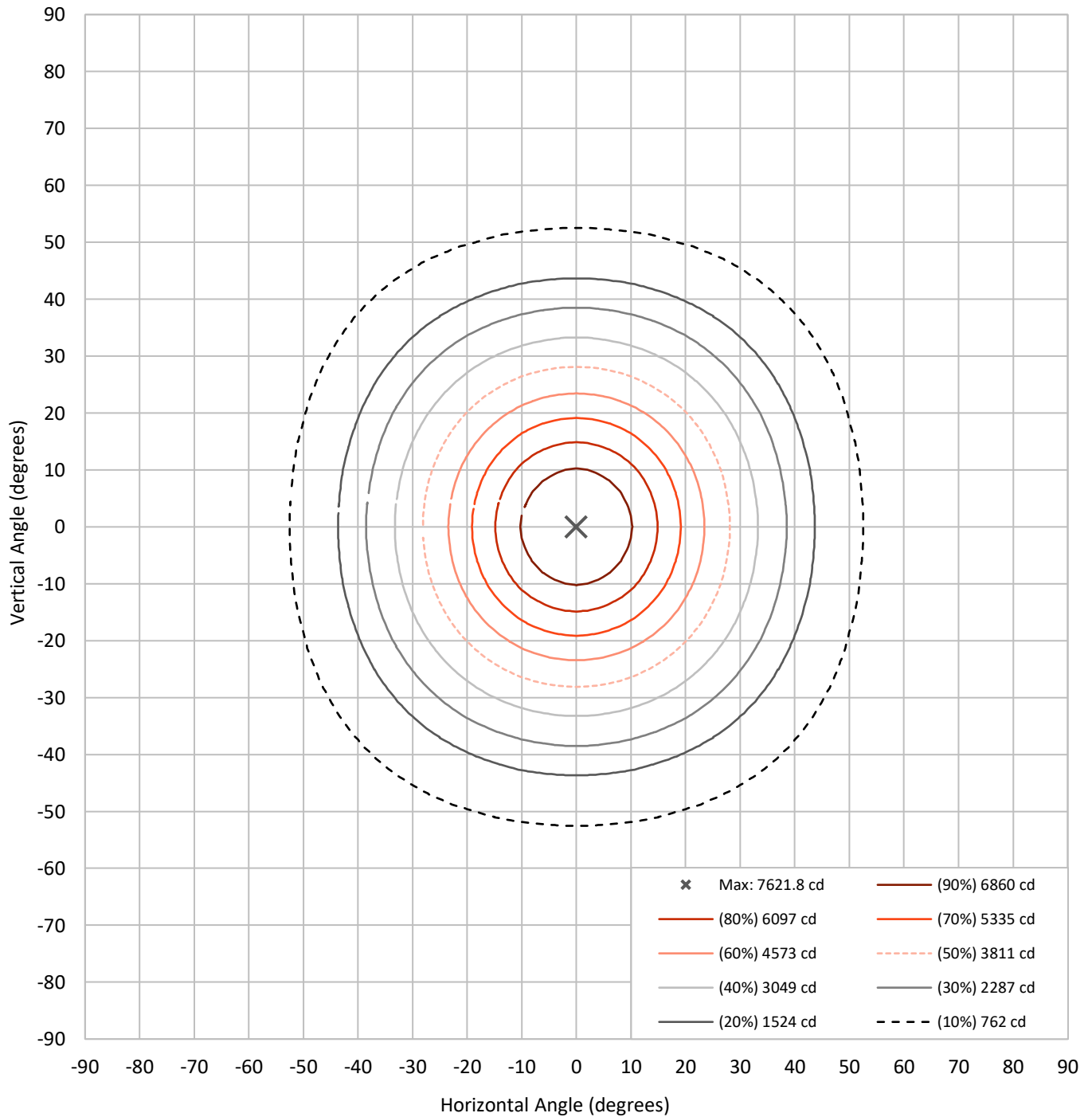
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	8341.3 lumens	Max Intensity:	7621.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	33.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	56.2°H x 56.2°V	Field Angle (10%):	104.8°H x 104.8°V
Beam Lumens:	2984.4 lumens	Field Lumens:	5512.8 lumens
Beam Efficiency:	35.8%	Field Efficiency:	66.1%
Input Watts (W):	247.8		
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		



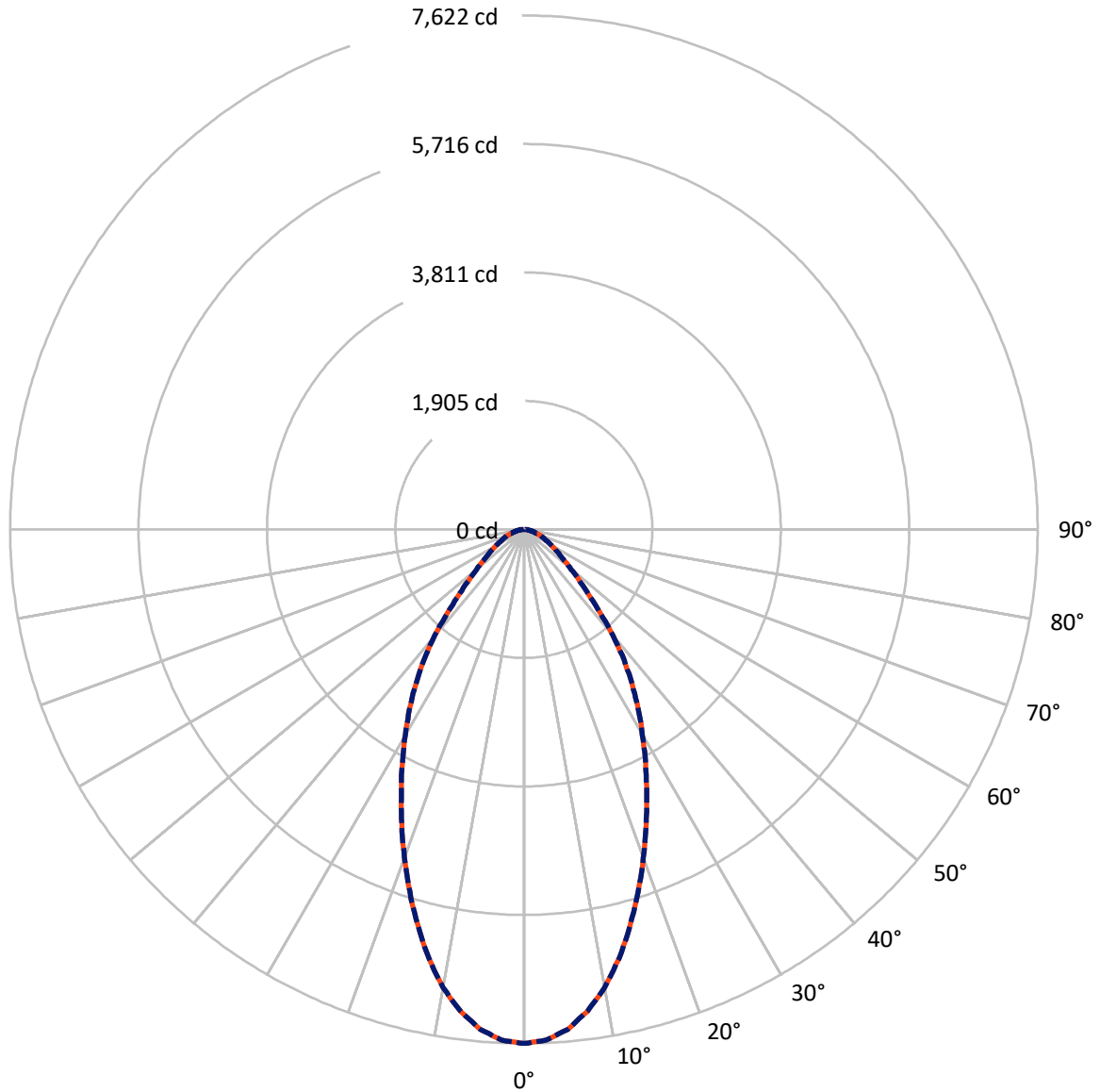
REPORT NUMBER: P640046
CATALOG NUMBER: IFLD-L-SA8A-AMB-U-66

Iso-Candela Plot



REPORT NUMBER: P640046
CATALOG NUMBER: IFLD-L-SA8A-AMB-U-66

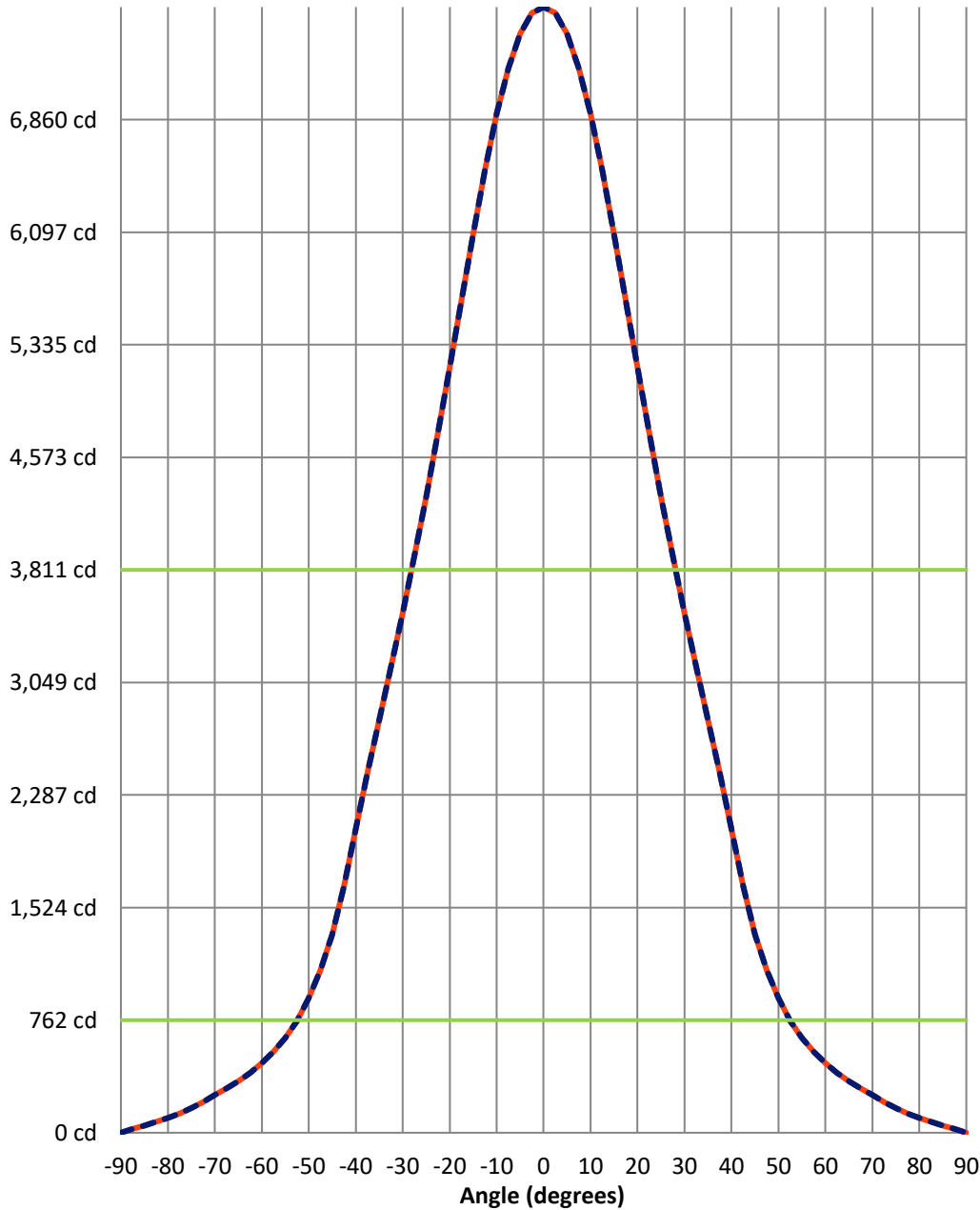
Luminous Intensity Polar Plot



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

REPORT NUMBER: P640046
CATALOG NUMBER: IFLD-L-SA8A-AMB-U-66

Luminous Intensity Plot



Beam:
H Angle: 56.2°
V Angle: 56.2°
Lumens: 2984.4
Efficiency: 35.8%

Field:
H Angle: 104.8°
V Angle: 104.8°
Lumens: 5512.8
Efficiency: 66.1%

Spill:
Lumens: 2828.5
Efficiency: 33.9%

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



REPORT NUMBER: P640046
 CATALOG NUMBER: IFLD-L-SA8A-AMB-U-66

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°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	22.3	22.3
85°	48.2	48.2	48.2	48.2	48.2	48.2	48.2	44.5	44.5	44.5	44.5
82.5°	74.2	74.2	74.2	74.2	74.2	70.5	70.5	70.5	70.5	66.8	66.8
80°	100.2	100.2	100.2	100.2	100.2	96.5	96.5	96.5	92.8	92.8	89.1
77.5°	129.9	129.9	129.9	129.9	126.2	126.2	126.2	122.5	122.5	118.7	115.0
75°	167.0	167.0	167.0	163.3	163.3	163.3	159.6	155.8	152.1	148.4	144.7
72.5°	207.8	207.8	207.8	204.1	204.1	200.4	196.7	193.0	189.2	185.5	181.8
70°	256.0	256.0	256.0	252.3	248.6	244.9	241.2	237.5	230.1	226.4	218.9
67.5°	300.6	300.6	300.6	296.9	293.1	289.4	285.7	282.0	274.6	267.2	259.7
65°	348.8	348.8	345.1	345.1	341.4	337.7	330.3	326.5	319.1	311.7	300.6
62.5°	404.5	404.5	400.8	397.0	393.3	389.6	382.2	374.8	363.6	356.2	345.1
60°	471.3	471.3	467.5	463.8	456.4	449.0	441.6	430.4	419.3	404.5	393.3
57.5°	549.2	549.2	545.5	538.1	530.6	523.2	512.1	497.2	482.4	463.8	449.0
55°	642.0	642.0	634.5	630.8	619.7	608.6	590.0	575.2	552.9	534.3	512.1
52.5°	757.0	757.0	749.6	738.4	727.3	708.7	690.2	664.2	638.2	612.3	586.3
50°	912.8	912.8	901.7	886.9	868.3	842.3	812.6	775.5	742.1	708.7	671.6
47.5°	1102.1	1102.1	1087.2	1068.7	1042.7	1009.3	968.5	920.3	875.7	827.5	771.8
45°	1343.3	1343.3	1321.0	1295.0	1261.6	1213.4	1157.7	1102.1	1035.3	972.2	905.4
42.5°	1669.8	1669.8	1640.1	1599.3	1547.4	1480.6	1395.2	1313.6	1232.0	1142.9	1057.5
40°	2055.7	2055.7	2014.9	1966.7	1896.2	1810.8	1703.2	1595.6	1480.6	1350.7	1243.1
37.5°	2437.9	2437.9	2393.4	2341.4	2267.2	2170.8	2059.4	1925.9	1777.4	1621.6	1469.4
35°	2794.2	2794.2	2749.6	2694.0	2619.8	2523.3	2408.2	2267.2	2107.7	1929.6	1736.6
32.5°	3154.1	3154.1	3105.9	3042.8	2961.1	2857.2	2731.1	2586.4	2437.9	2237.5	2033.5
30°	3517.7	3517.7	3462.1	3395.3	3302.5	3187.5	3050.2	2894.3	2719.9	2530.7	2315.5
27.5°	3907.4	3892.5	3844.3	3762.6	3655.0	3517.7	3365.6	3194.9	3005.7	2797.9	2582.6
25°	4304.4	4285.9	4230.2	4141.1	4018.7	3866.5	3688.4	3491.8	3284.0	3061.3	2827.5
22.5°	4738.6	4716.3	4649.5	4538.2	4389.8	4211.6	4015.0	3796.0	3554.8	3313.7	3061.3
20°	5180.1	5154.2	5076.2	4950.1	4779.4	4575.3	4337.8	4092.9	3829.4	3554.8	3284.0
17.5°	5632.8	5603.1	5510.4	5362.0	5180.1	4935.2	4671.8	4382.3	4092.9	3796.0	3491.8
15°	6081.8	6044.7	5940.8	5770.1	5547.5	5284.0	4987.2	4671.8	4337.8	4015.0	3688.4
12.5°	6516.0	6475.2	6352.7	6159.8	5911.1	5614.3	5284.0	4935.2	4575.3	4211.6	3866.5
10°	6898.2	6849.9	6720.1	6519.7	6237.7	5911.1	5547.5	5180.1	4779.4	4389.8	4018.7
7.5°	7206.2	7157.9	7020.6	6809.1	6519.7	6159.8	5770.1	5362.0	4950.1	4538.2	4141.1
5°	7439.9	7384.3	7247.0	7020.6	6720.1	6352.7	5940.8	5510.4	5076.2	4649.5	4230.2
2.5°	7581.0	7521.6	7384.3	7157.9	6849.9	6475.2	6044.7	5603.1	5154.2	4716.3	4285.9
0°	7621.8	7581.0	7439.9	7206.2	6898.2	6516.0	6081.8	5632.8	5180.1	4738.6	4304.4



REPORT NUMBER: P640046
 CATALOG NUMBER: IFLD-L-SA8A-AMB-U-66

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°	22.3	22.3	22.3	22.3	22.3	18.6	18.6	18.6	18.6	14.8	14.8
85°	44.5	40.8	40.8	40.8	40.8	37.1	37.1	33.4	33.4	33.4	29.7
82.5°	66.8	63.1	63.1	59.4	59.4	55.7	51.9	51.9	48.2	48.2	44.5
80°	89.1	85.3	85.3	81.6	77.9	74.2	74.2	70.5	66.8	63.1	59.4
77.5°	111.3	111.3	107.6	103.9	100.2	96.5	92.8	89.1	85.3	77.9	74.2
75°	141.0	137.3	129.9	126.2	122.5	118.7	111.3	107.6	100.2	96.5	89.1
72.5°	174.4	167.0	163.3	155.8	148.4	141.0	133.6	126.2	122.5	115.0	107.6
70°	211.5	204.1	196.7	189.2	178.1	170.7	159.6	152.1	141.0	133.6	122.5
67.5°	252.3	244.9	233.8	222.6	211.5	200.4	189.2	178.1	167.0	155.8	144.7
65°	293.1	282.0	270.9	259.7	248.6	233.8	218.9	207.8	193.0	178.1	167.0
62.5°	334.0	322.8	308.0	296.9	282.0	267.2	256.0	237.5	222.6	204.1	189.2
60°	378.5	363.6	348.8	334.0	319.1	300.6	285.7	267.2	252.3	230.1	211.5
57.5°	430.4	411.9	393.3	374.8	352.5	334.0	315.4	296.9	278.3	259.7	237.5
55°	489.8	463.8	441.6	419.3	393.3	371.1	348.8	326.5	308.0	285.7	263.5
52.5°	556.6	526.9	497.2	471.3	441.6	411.9	385.9	359.9	334.0	311.7	285.7
50°	634.5	597.4	560.3	526.9	493.5	456.4	426.7	393.3	363.6	337.7	311.7
47.5°	727.3	679.1	630.8	590.0	549.2	508.4	467.5	430.4	397.0	363.6	334.0
45°	842.3	771.8	716.2	660.5	608.6	560.3	515.8	471.3	430.4	393.3	359.9
42.5°	975.9	894.3	816.4	742.1	679.1	619.7	564.0	515.8	467.5	426.7	385.9
40°	1131.8	1031.6	931.4	842.3	757.0	686.5	619.7	560.3	508.4	456.4	411.9
37.5°	1317.3	1187.4	1065.0	953.6	849.7	757.0	679.1	608.6	549.2	493.5	441.6
35°	1551.1	1369.2	1217.1	1076.1	953.6	842.3	742.1	660.5	590.0	526.9	471.3
32.5°	1814.5	1595.6	1387.8	1217.1	1065.0	931.4	816.4	716.2	630.8	560.3	497.2
30°	2085.4	1836.8	1595.6	1369.2	1187.4	1031.6	894.3	771.8	679.1	597.4	526.9
27.5°	2345.2	2085.4	1814.5	1551.1	1317.3	1131.8	975.9	842.3	727.3	634.5	556.6
25°	2582.6	2315.5	2033.5	1736.6	1469.4	1243.1	1057.5	905.4	771.8	671.6	586.3
22.5°	2797.9	2530.7	2237.5	1929.6	1621.6	1350.7	1142.9	972.2	827.5	708.7	612.3
20°	3005.7	2719.9	2437.9	2107.7	1777.4	1480.6	1232.0	1035.3	875.7	742.1	638.2
17.5°	3194.9	2894.3	2586.4	2267.2	1925.9	1595.6	1313.6	1102.1	920.3	775.5	664.2
15°	3365.6	3050.2	2731.1	2408.2	2059.4	1703.2	1395.2	1157.7	968.5	812.6	690.2
12.5°	3517.7	3187.5	2857.2	2523.3	2170.8	1810.8	1480.6	1213.4	1009.3	842.3	708.7
10°	3655.0	3302.5	2961.1	2619.8	2267.2	1896.2	1547.4	1261.6	1042.7	868.3	727.3
7.5°	3762.6	3395.3	3042.8	2694.0	2341.4	1966.7	1599.3	1295.0	1068.7	886.9	738.4
5°	3844.3	3462.1	3105.9	2749.6	2393.4	2014.9	1640.1	1321.0	1087.2	901.7	749.6
2.5°	3892.5	3517.7	3154.1	2794.2	2437.9	2055.7	1669.8	1343.3	1102.1	912.8	757.0
0°	3907.4	3517.7	3154.1	2794.2	2437.9	2055.7	1669.8	1343.3	1102.1	912.8	757.0



REPORT NUMBER: P640046
 CATALOG NUMBER: IFLD-L-SA8A-AMB-U-66

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°	14.8	14.8	11.1	11.1	11.1	11.1	7.4	7.4	7.4	7.4	3.7
85°	29.7	26.0	26.0	22.3	22.3	18.6	18.6	14.8	14.8	11.1	7.4
82.5°	40.8	40.8	37.1	33.4	33.4	29.7	26.0	22.3	18.6	18.6	14.8
80°	55.7	51.9	48.2	44.5	40.8	37.1	33.4	29.7	26.0	22.3	18.6
77.5°	70.5	66.8	59.4	55.7	51.9	44.5	40.8	37.1	33.4	26.0	22.3
75°	85.3	77.9	74.2	66.8	63.1	55.7	48.2	44.5	37.1	33.4	26.0
72.5°	100.2	92.8	85.3	77.9	70.5	66.8	59.4	51.9	44.5	37.1	29.7
70°	115.0	107.6	100.2	89.1	81.6	74.2	66.8	59.4	48.2	40.8	33.4
67.5°	133.6	122.5	111.3	103.9	92.8	85.3	74.2	66.8	55.7	44.5	37.1
65°	152.1	137.3	126.2	115.0	103.9	92.8	81.6	70.5	63.1	51.9	40.8
62.5°	174.4	155.8	141.0	126.2	115.0	103.9	89.1	77.9	66.8	55.7	44.5
60°	193.0	178.1	159.6	141.0	126.2	111.3	100.2	85.3	74.2	59.4	48.2
57.5°	215.2	196.7	178.1	155.8	137.3	122.5	107.6	92.8	77.9	66.8	51.9
55°	241.2	215.2	193.0	174.4	152.1	133.6	115.0	100.2	85.3	70.5	55.7
52.5°	263.5	237.5	211.5	189.2	167.0	144.7	122.5	107.6	89.1	74.2	59.4
50°	285.7	259.7	230.1	204.1	178.1	155.8	133.6	115.0	96.5	77.9	63.1
47.5°	308.0	278.3	252.3	222.6	193.0	167.0	141.0	122.5	100.2	85.3	66.8
45°	326.5	296.9	267.2	237.5	207.8	178.1	152.1	126.2	107.6	89.1	70.5
42.5°	348.8	315.4	285.7	256.0	218.9	189.2	159.6	133.6	111.3	92.8	74.2
40°	371.1	334.0	300.6	267.2	233.8	200.4	170.7	141.0	118.7	96.5	74.2
37.5°	393.3	352.5	319.1	282.0	248.6	211.5	178.1	148.4	122.5	100.2	77.9
35°	419.3	374.8	334.0	296.9	259.7	222.6	189.2	155.8	126.2	103.9	81.6
32.5°	441.6	393.3	348.8	308.0	270.9	233.8	196.7	163.3	129.9	107.6	85.3
30°	463.8	411.9	363.6	322.8	282.0	244.9	204.1	167.0	137.3	111.3	85.3
27.5°	489.8	430.4	378.5	334.0	293.1	252.3	211.5	174.4	141.0	111.3	89.1
25°	512.1	449.0	393.3	345.1	300.6	259.7	218.9	181.8	144.7	115.0	89.1
22.5°	534.3	463.8	404.5	356.2	311.7	267.2	226.4	185.5	148.4	118.7	92.8
20°	552.9	482.4	419.3	363.6	319.1	274.6	230.1	189.2	152.1	122.5	92.8
17.5°	575.2	497.2	430.4	374.8	326.5	282.0	237.5	193.0	155.8	122.5	96.5
15°	590.0	512.1	441.6	382.2	330.3	285.7	241.2	196.7	159.6	126.2	96.5
12.5°	608.6	523.2	449.0	389.6	337.7	289.4	244.9	200.4	163.3	126.2	96.5
10°	619.7	530.6	456.4	393.3	341.4	293.1	248.6	204.1	163.3	126.2	100.2
7.5°	630.8	538.1	463.8	397.0	345.1	296.9	252.3	204.1	163.3	129.9	100.2
5°	634.5	545.5	467.5	400.8	345.1	300.6	256.0	207.8	167.0	129.9	100.2
2.5°	642.0	549.2	471.3	404.5	348.8	300.6	256.0	207.8	167.0	129.9	100.2
0°	642.0	549.2	471.3	404.5	348.8	300.6	256.0	207.8	167.0	129.9	100.2



REPORT NUMBER: P640046
 CATALOG NUMBER: IFLD-L-SA8A-AMB-U-66

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.7	3.7	0.0	0.0
85°	7.4	3.7	3.7	0.0
82.5°	11.1	7.4	3.7	0.0
80°	14.8	7.4	3.7	0.0
77.5°	18.6	11.1	7.4	0.0
75°	18.6	14.8	7.4	0.0
72.5°	22.3	14.8	7.4	0.0
70°	26.0	18.6	7.4	0.0
67.5°	29.7	18.6	11.1	0.0
65°	33.4	22.3	11.1	0.0
62.5°	33.4	22.3	11.1	0.0
60°	37.1	26.0	11.1	0.0
57.5°	40.8	26.0	14.8	0.0
55°	40.8	29.7	14.8	0.0
52.5°	44.5	29.7	14.8	0.0
50°	48.2	33.4	14.8	0.0
47.5°	48.2	33.4	18.6	0.0
45°	51.9	33.4	18.6	0.0
42.5°	51.9	37.1	18.6	0.0
40°	55.7	37.1	18.6	0.0
37.5°	59.4	40.8	22.3	0.0
35°	59.4	40.8	22.3	0.0
32.5°	63.1	40.8	22.3	0.0
30°	63.1	40.8	22.3	0.0
27.5°	66.8	44.5	22.3	0.0
25°	66.8	44.5	22.3	0.0
22.5°	66.8	44.5	22.3	0.0
20°	70.5	44.5	26.0	0.0
17.5°	70.5	44.5	26.0	0.0
15°	70.5	48.2	26.0	0.0
12.5°	70.5	48.2	26.0	0.0
10°	74.2	48.2	26.0	0.0
7.5°	74.2	48.2	26.0	0.0
5°	74.2	48.2	26.0	0.0
2.5°	74.2	48.2	26.0	0.0
0°	74.2	48.2	26.0	0.0

(END OF REPORT)