

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: P624609

Luminaire Tested: **IFLD-L-SA8C-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624609
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

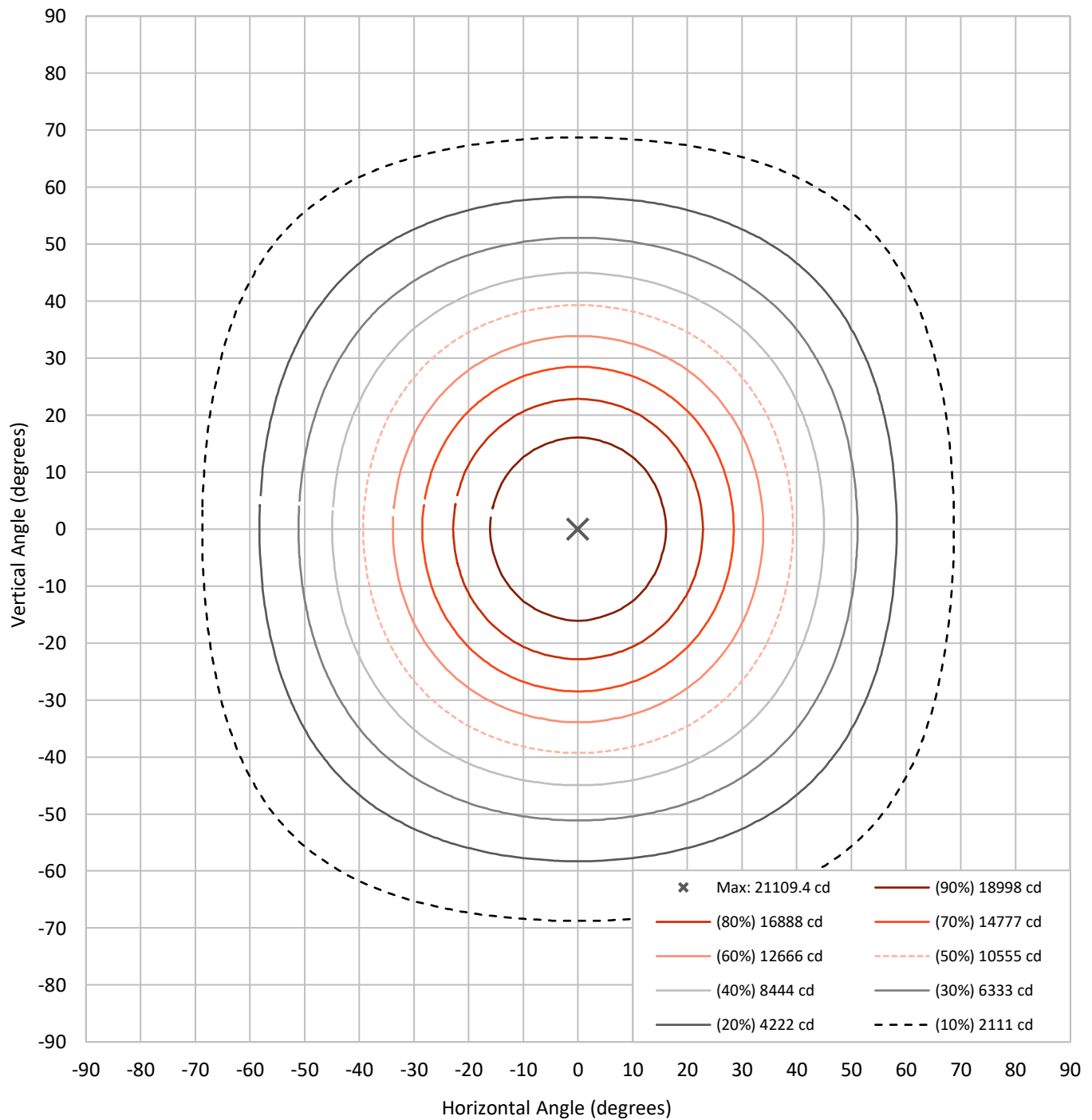
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	38007.9 lumens	Max Intensity:	21109.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	90.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	16445.7 lumens	Field Lumens:	26929.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	420.3		
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: P624609

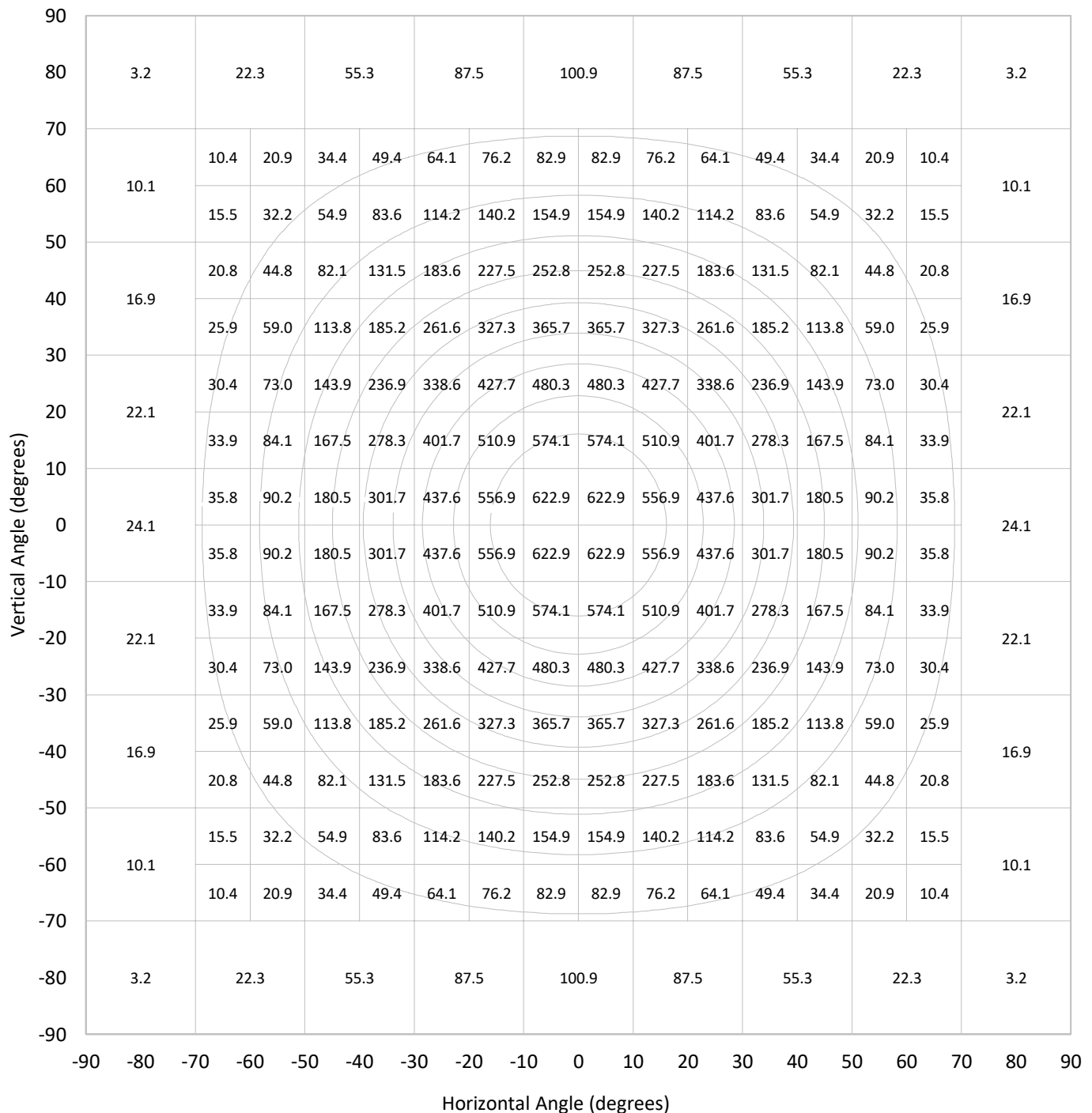
CATALOG NUMBER: IFLD-L-SA8C-940-U-77

Iso-Candela Plot



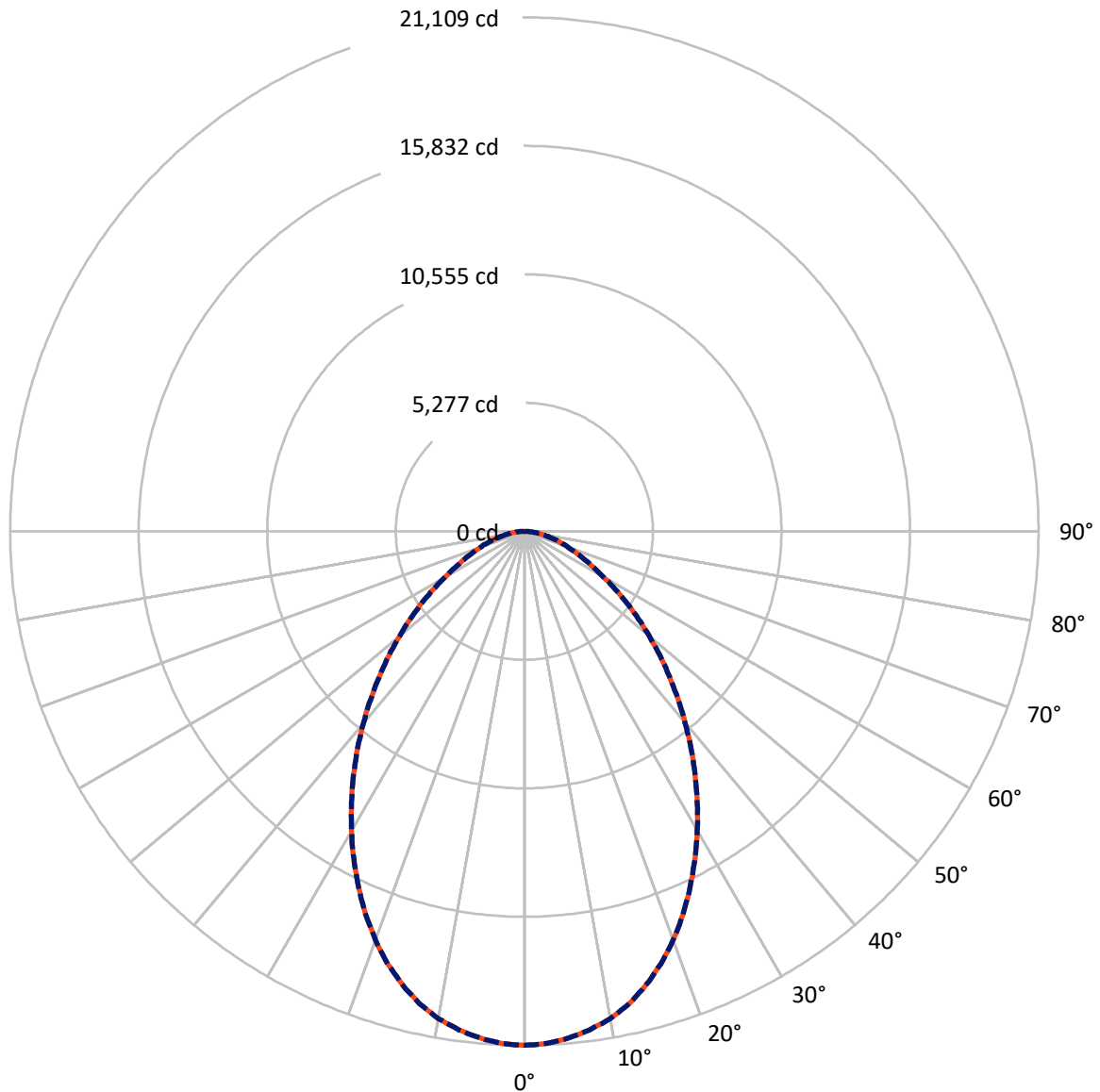
REPORT NUMBER: P624609
CATALOG NUMBER: IFLD-L-SA8C-940-U-77

Lumen Table



REPORT NUMBER: P624609
CATALOG NUMBER: IFLD-L-SA8C-940-U-77

Luminous Intensity Polar Plot

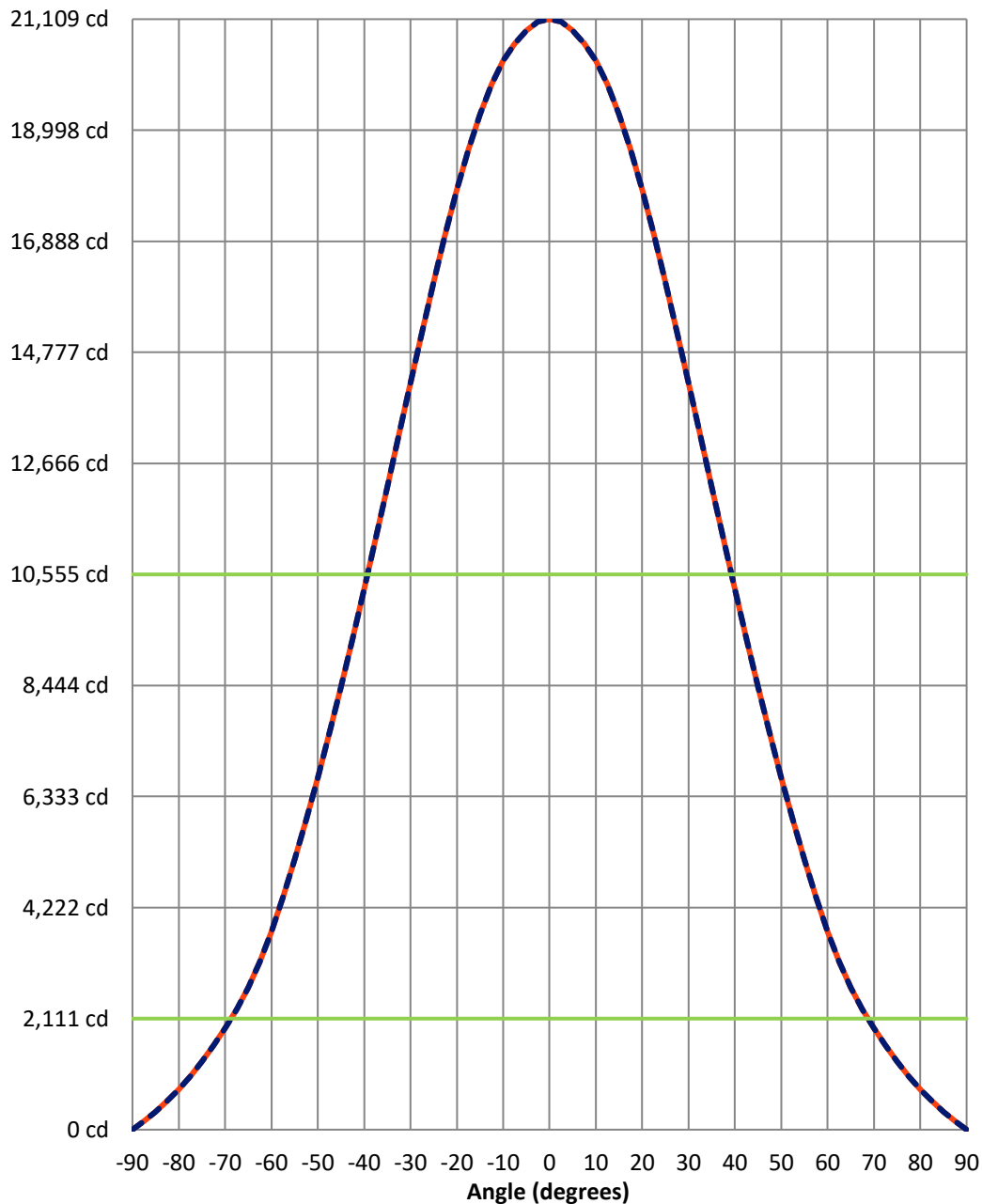


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624609

CATALOG NUMBER: IFLD-L-SA8C-940-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 16445.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 26929.2
Efficiency: 70.9%

Spill:

Lumens: 11078.7
Efficiency: 29.1%

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

REPORT NUMBER: P624609

CATALOG NUMBER: IFLD-L-SA8C-940-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°	162.5	162.5	162.5	162.5	162.5	162.5	162.5	154.5	154.5	150.6	146.6
85°	340.8	340.8	340.8	340.8	340.8	332.9	328.9	324.9	321.0	313.1	309.1
82.5°	546.9	546.9	546.9	546.9	538.9	531.0	527.0	519.1	511.2	499.3	487.4
80°	764.8	764.8	764.8	764.8	752.9	745.0	733.1	725.2	713.3	697.4	681.6
77.5°	1014.5	1014.5	1014.5	1002.6	994.6	982.8	970.9	955.0	939.2	919.3	895.6
75°	1295.8	1295.8	1295.8	1280.0	1268.1	1256.2	1236.4	1216.6	1192.8	1165.0	1133.3
72.5°	1600.9	1600.9	1600.9	1581.1	1569.2	1549.4	1525.6	1497.9	1470.2	1434.5	1394.9
70°	1929.8	1929.8	1929.8	1906.1	1886.3	1866.4	1834.7	1803.0	1763.4	1723.8	1676.2
67.5°	2286.5	2286.5	2286.5	2258.7	2235.0	2207.2	2171.6	2131.9	2084.4	2028.9	1973.4
65°	2702.6	2702.6	2686.7	2662.9	2635.2	2595.6	2552.0	2496.5	2437.1	2365.7	2290.4
62.5°	3193.9	3193.9	3170.2	3142.4	3106.8	3055.3	2995.8	2924.5	2841.3	2750.1	2659.0
60°	3764.6	3764.6	3736.8	3701.2	3649.7	3586.3	3507.0	3415.9	3312.8	3197.9	3087.0
57.5°	4422.4	4422.4	4386.7	4339.2	4275.8	4196.5	4097.4	3982.5	3851.8	3709.1	3570.4
55°	5135.7	5135.7	5092.1	5036.6	4961.3	4866.2	4747.3	4612.6	4454.1	4291.6	4113.3
52.5°	5892.6	5892.6	5841.0	5777.6	5690.5	5579.5	5444.8	5286.3	5104.0	4913.8	4703.7
50°	6689.1	6689.1	6629.6	6558.3	6459.2	6328.5	6173.9	5991.6	5789.5	5567.6	5325.9
47.5°	7541.0	7541.0	7473.7	7390.5	7271.6	7121.0	6938.7	6728.7	6498.9	6249.2	5975.8
45°	8416.8	8416.8	8341.5	8246.4	8115.6	7945.2	7743.1	7541.0	7247.8	6958.5	6641.5
42.5°	9328.2	9328.2	9241.1	9134.1	8983.5	8797.2	8567.4	8305.9	8016.6	7691.6	7346.9
40°	10275.3	10275.3	10176.3	10053.4	9887.0	9673.0	9415.4	9122.2	8797.2	8436.6	8056.2
37.5°	11242.2	11242.2	11131.3	10996.5	10810.3	10572.5	10283.2	9958.3	9593.7	9193.5	8773.5
35°	12217.1	12217.1	12094.2	11947.6	11741.5	11480.0	11166.9	10806.3	10402.1	9966.2	9494.7
32.5°	13211.7	13211.7	13077.0	12910.5	12676.7	12387.4	12042.7	11650.4	11242.2	10735.0	10219.8
30°	14194.4	14194.4	14047.8	13865.5	13615.9	13298.9	12922.4	12490.5	12011.0	11491.9	10937.1
27.5°	15161.3	15121.7	14998.9	14804.7	14531.3	14194.4	13786.3	13318.7	12799.6	12228.9	11634.5
25°	16112.4	16068.8	15934.1	15720.1	15426.9	15058.3	14618.5	14119.2	13560.4	12958.1	12308.2
22.5°	17023.8	16976.3	16833.6	16603.8	16290.7	15890.5	15418.9	14884.0	14289.6	13643.6	12958.1
20°	17867.9	17816.4	17669.7	17428.0	17103.1	16679.1	16179.8	15605.2	14971.1	14289.6	13560.4
17.5°	18628.7	18577.2	18422.7	18173.0	17867.9	17396.3	16881.2	16274.9	15605.2	14884.0	14119.2
15°	19298.4	19242.9	19084.4	18834.8	18486.1	18042.2	17499.4	16881.2	16179.8	15418.9	14618.5
12.5°	19869.1	19813.6	19651.1	19401.5	19040.8	18597.0	18042.2	17396.3	16679.1	15890.5	15058.3
10°	20320.8	20265.3	20110.8	19873.0	19500.5	19040.8	18486.1	17867.9	17103.1	16290.7	15426.9
7.5°	20645.7	20594.2	20451.6	20213.8	19873.0	19401.5	18834.8	18173.0	17428.0	16603.8	15720.1
5°	20891.4	20832.0	20689.3	20451.6	20110.8	19651.1	19084.4	18422.7	17669.7	16833.6	15934.1
2.5°	21061.8	20990.5	20832.0	20594.2	20265.3	19813.6	19242.9	18577.2	17816.4	16976.3	16068.8
0°	21109.4	21061.8	20891.4	20645.7	20320.8	19869.1	19298.4	18628.7	17867.9	17023.8	16112.4

REPORT NUMBER: P624609

CATALOG NUMBER: IFLD-L-SA8C-940-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°	142.7	142.7	138.7	134.7	130.8	122.8	118.9	114.9	111.0	103.0	99.1
85°	301.2	293.2	285.3	277.4	265.5	257.6	245.7	237.8	225.9	214.0	202.1
82.5°	475.5	463.6	447.8	435.9	420.0	400.2	384.4	364.6	344.8	328.9	309.1
80°	665.7	645.9	626.1	606.3	582.5	558.7	535.0	511.2	483.5	455.7	428.0
77.5°	871.8	844.1	816.3	784.6	756.9	725.2	693.5	661.8	626.1	590.4	554.8
75°	1101.6	1066.0	1026.3	986.7	951.1	907.5	863.9	820.3	772.7	729.1	681.6
72.5°	1351.3	1307.7	1260.1	1212.6	1161.1	1105.6	1050.1	990.7	935.2	879.7	820.3
70°	1620.8	1569.2	1509.8	1450.4	1387.0	1319.6	1252.2	1180.9	1109.6	1038.2	966.9
67.5°	1910.0	1846.6	1775.3	1704.0	1624.7	1545.5	1466.2	1383.0	1295.8	1208.6	1125.4
65°	2219.1	2139.9	2056.6	1965.5	1874.4	1783.2	1688.1	1589.0	1490.0	1387.0	1295.8
62.5°	2563.9	2464.8	2357.8	2246.9	2143.8	2032.9	1929.8	1807.0	1688.1	1573.2	1458.3
60°	2964.1	2833.3	2702.6	2563.9	2433.1	2290.4	2163.6	2028.9	1894.2	1763.4	1628.7
57.5°	3411.9	3245.5	3087.0	2920.5	2746.2	2587.7	2425.2	2262.7	2112.1	1957.6	1811.0
55°	3919.1	3717.0	3518.9	3312.8	3110.7	2912.6	2706.5	2524.2	2338.0	2163.6	1993.2
52.5°	4473.9	4244.1	3998.4	3764.6	3507.0	3261.3	3031.5	2801.6	2583.7	2373.7	2179.5
50°	5068.3	4798.8	4517.5	4232.2	3938.9	3649.7	3372.3	3102.8	2849.2	2603.5	2373.7
47.5°	5686.5	5381.4	5060.4	4735.4	4422.4	4069.7	3736.8	3431.7	3126.6	2849.2	2583.7
45°	6320.5	5975.8	5623.1	5254.6	4886.0	4505.6	4137.1	3764.6	3431.7	3102.8	2801.6
42.5°	6974.4	6586.0	6193.7	5785.6	5377.4	4961.3	4545.2	4137.1	3736.8	3372.3	3031.5
40°	7648.0	7220.1	6772.3	6328.5	5892.6	5417.0	4961.3	4505.6	4069.7	3649.7	3261.3
37.5°	8321.7	7854.1	7370.7	6871.3	6372.0	5892.6	5377.4	4886.0	4422.4	3938.9	3507.0
35°	8999.3	8484.2	7961.1	7418.2	6871.3	6328.5	5785.6	5254.6	4735.4	4232.2	3764.6
32.5°	9680.9	9118.2	8539.7	7961.1	7370.7	6772.3	6193.7	5623.1	5060.4	4517.5	3998.4
30°	10350.6	9740.4	9118.2	8484.2	7854.1	7220.1	6586.0	5975.8	5381.4	4798.8	4244.1
27.5°	11004.5	10350.6	9680.9	8999.3	8321.7	7648.0	6974.4	6320.5	5686.5	5068.3	4473.9
25°	11634.5	10937.1	10219.8	9494.7	8773.5	8056.2	7346.9	6641.5	5975.8	5325.9	4703.7
22.5°	12228.9	11491.9	10735.0	9966.2	9193.5	8436.6	7691.6	6958.5	6249.2	5567.6	4913.8
20°	12799.6	12011.0	11242.2	10402.1	9593.7	8797.2	8016.6	7247.8	6498.9	5789.5	5104.0
17.5°	13318.7	12490.5	11650.4	10806.3	9958.3	9122.2	8305.9	7541.0	6728.7	5991.6	5286.3
15°	13786.3	12922.4	12042.7	11166.9	10283.2	9415.4	8567.4	7743.1	6938.7	6173.9	5444.8
12.5°	14194.4	13298.9	12387.4	11480.0	10572.5	9673.0	8797.2	7945.2	7121.0	6328.5	5579.5
10°	14531.3	13615.9	12676.7	11741.5	10810.3	9887.0	8983.5	8115.6	7271.6	6459.2	5690.5
7.5°	14804.7	13865.5	12910.5	11947.6	10996.5	10053.4	9134.1	8246.4	7390.5	6558.3	5777.6
5°	14998.9	14047.8	13077.0	12094.2	11131.3	10176.3	9241.1	8341.5	7473.7	6629.6	5841.0
2.5°	15121.7	14194.4	13211.7	12217.1	11242.2	10275.3	9328.2	8416.8	7541.0	6689.1	5892.6
0°	15161.3	14194.4	13211.7	12217.1	11242.2	10275.3	9328.2	8416.8	7541.0	6689.1	5892.6

REPORT NUMBER: P624609

CATALOG NUMBER: IFLD-L-SA8C-940-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°	95.1	87.2	79.3	75.3	67.4	63.4	55.5	47.6	43.6	35.7	27.7
85°	190.2	174.4	162.5	150.6	138.7	122.8	111.0	99.1	83.2	71.3	55.5
82.5°	289.3	269.5	249.7	229.8	210.0	190.2	166.4	146.6	126.8	107.0	83.2
80°	400.2	368.5	340.8	313.1	285.3	257.6	225.9	198.1	166.4	138.7	111.0
77.5°	515.2	479.5	439.9	400.2	360.6	324.9	285.3	249.7	214.0	174.4	138.7
75°	638.0	590.4	546.9	495.3	447.8	396.3	348.7	301.2	257.6	214.0	166.4
72.5°	764.8	705.4	645.9	590.4	531.0	471.6	416.1	356.6	301.2	249.7	198.1
70°	895.6	824.2	752.9	685.5	618.2	546.9	483.5	416.1	348.7	285.3	225.9
67.5°	1034.3	951.1	867.8	780.7	705.4	626.1	546.9	471.6	396.3	324.9	257.6
65°	1184.9	1085.8	982.8	891.6	792.5	705.4	618.2	531.0	447.8	360.6	285.3
62.5°	1339.4	1224.5	1109.6	994.6	891.6	780.7	685.5	590.4	495.3	400.2	313.1
60°	1497.9	1367.1	1236.4	1109.6	982.8	867.8	752.9	645.9	546.9	439.9	340.8
57.5°	1660.4	1513.8	1367.1	1224.5	1085.8	951.1	824.2	705.4	590.4	479.5	368.5
55°	1826.8	1660.4	1497.9	1339.4	1184.9	1034.3	895.6	764.8	638.0	515.2	400.2
52.5°	1993.2	1811.0	1628.7	1458.3	1295.8	1125.4	966.9	820.3	681.6	554.8	428.0
50°	2163.6	1957.6	1763.4	1573.2	1387.0	1208.6	1038.2	879.7	729.1	590.4	455.7
47.5°	2338.0	2112.1	1894.2	1688.1	1490.0	1295.8	1109.6	935.2	772.7	626.1	483.5
45°	2524.2	2262.7	2028.9	1807.0	1589.0	1383.0	1180.9	990.7	820.3	661.8	511.2
42.5°	2706.5	2425.2	2163.6	1929.8	1688.1	1466.2	1252.2	1050.1	863.9	693.5	535.0
40°	2912.6	2587.7	2290.4	2032.9	1783.2	1545.5	1319.6	1105.6	907.5	725.2	558.7
37.5°	3110.7	2746.2	2433.1	2143.8	1874.4	1624.7	1387.0	1161.1	951.1	756.9	582.5
35°	3312.8	2920.5	2563.9	2246.9	1965.5	1704.0	1450.4	1212.6	986.7	784.6	606.3
32.5°	3518.9	3087.0	2702.6	2357.8	2056.6	1775.3	1509.8	1260.1	1026.3	816.3	626.1
30°	3717.0	3245.5	2833.3	2464.8	2139.9	1846.6	1569.2	1307.7	1066.0	844.1	645.9
27.5°	3919.1	3411.9	2964.1	2563.9	2219.1	1910.0	1620.8	1351.3	1101.6	871.8	665.7
25°	4113.3	3570.4	3087.0	2659.0	2290.4	1973.4	1676.2	1394.9	1133.3	895.6	681.6
22.5°	4291.6	3709.1	3197.9	2750.1	2365.7	2028.9	1723.8	1434.5	1165.0	919.3	697.4
20°	4454.1	3851.8	3312.8	2841.3	2437.1	2084.4	1763.4	1470.2	1192.8	939.2	713.3
17.5°	4612.6	3982.5	3415.9	2924.5	2496.5	2131.9	1803.0	1497.9	1216.6	955.0	725.2
15°	4747.3	4097.4	3507.0	2995.8	2552.0	2171.6	1834.7	1525.6	1236.4	970.9	733.1
12.5°	4866.2	4196.5	3586.3	3055.3	2595.6	2207.2	1866.4	1549.4	1256.2	982.8	745.0
10°	4961.3	4275.8	3649.7	3106.8	2635.2	2235.0	1886.3	1569.2	1268.1	994.6	752.9
7.5°	5036.6	4339.2	3701.2	3142.4	2662.9	2258.7	1906.1	1581.1	1280.0	1002.6	764.8
5°	5092.1	4386.7	3736.8	3170.2	2686.7	2286.5	1929.8	1600.9	1295.8	1014.5	764.8
2.5°	5135.7	4422.4	3764.6	3193.9	2702.6	2286.5	1929.8	1600.9	1295.8	1014.5	764.8
0°	5135.7	4422.4	3764.6	3193.9	2702.6	2286.5	1929.8	1600.9	1295.8	1014.5	764.8

REPORT NUMBER: P624609

CATALOG NUMBER: IFLD-L-SA8C-940-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.8	15.9	7.9	0.0
85°	43.6	27.7	15.9	0.0
82.5°	63.4	43.6	19.8	0.0
80°	83.2	55.5	27.7	0.0
77.5°	107.0	71.3	35.7	0.0
75°	126.8	83.2	43.6	0.0
72.5°	146.6	99.1	47.6	0.0
70°	166.4	111.0	55.5	0.0
67.5°	190.2	122.8	63.4	0.0
65°	210.0	138.7	67.4	0.0
62.5°	229.8	150.6	75.3	0.0
60°	249.7	162.5	79.3	0.0
57.5°	269.5	174.4	87.2	0.0
55°	289.3	190.2	95.1	0.0
52.5°	309.1	202.1	99.1	0.0
50°	328.9	214.0	103.0	0.0
47.5°	344.8	225.9	111.0	0.0
45°	364.6	237.8	114.9	0.0
42.5°	384.4	245.7	118.9	0.0
40°	400.2	257.6	122.8	0.0
37.5°	420.0	265.5	130.8	0.0
35°	435.9	277.4	134.7	0.0
32.5°	447.8	285.3	138.7	0.0
30°	463.6	293.2	142.7	0.0
27.5°	475.5	301.2	142.7	0.0
25°	487.4	309.1	146.6	0.0
22.5°	499.3	313.1	150.6	0.0
20°	511.2	321.0	154.5	0.0
17.5°	519.1	324.9	154.5	0.0
15°	527.0	328.9	162.5	0.0
12.5°	531.0	332.9	162.5	0.0
10°	538.9	340.8	162.5	0.0
7.5°	546.9	340.8	162.5	0.0
5°	546.9	340.8	162.5	0.0
2.5°	546.9	340.8	162.5	0.0
0°	546.9	340.8	162.5	0.0

(END OF REPORT)