

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: P624518

Luminaire Tested: **IFLD-L-SA7D-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624518
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

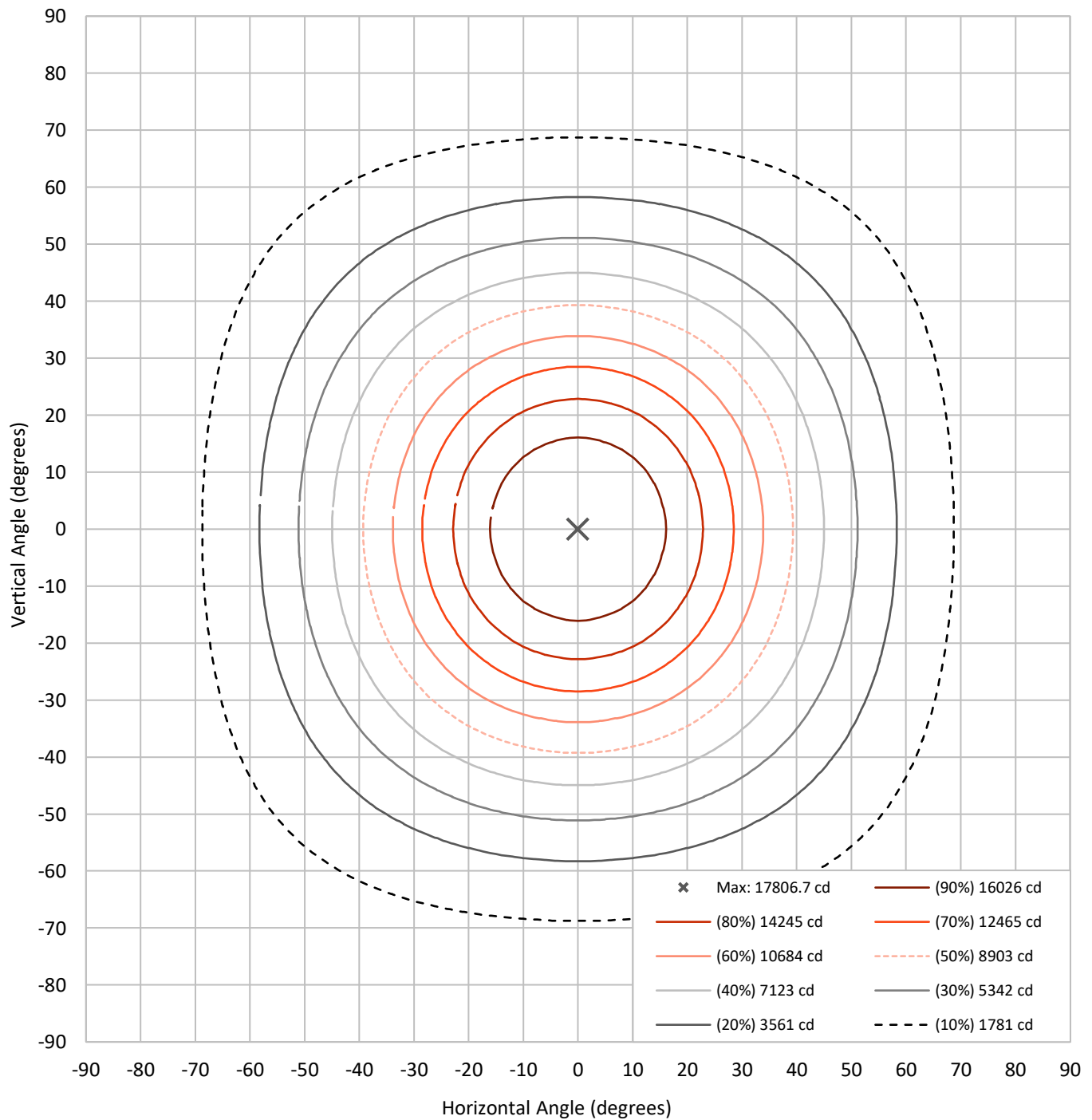
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32061.4 lumens	Max Intensity:	17806.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	75.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	13872.7 lumens	Field Lumens:	22716 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	422.6		
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: P624518

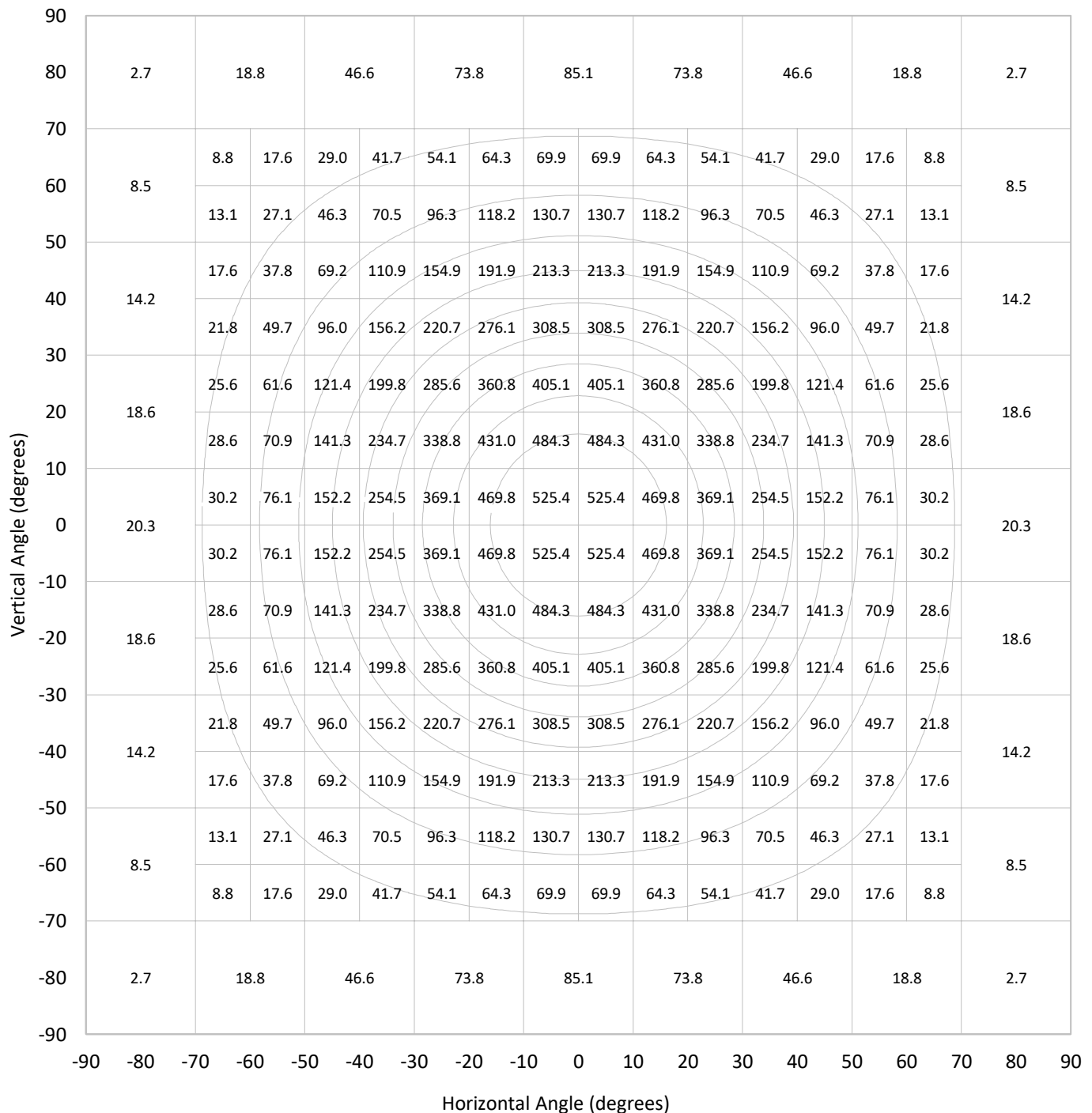
CATALOG NUMBER: IFLD-L-SA7D-927-U-77

Iso-Candela Plot



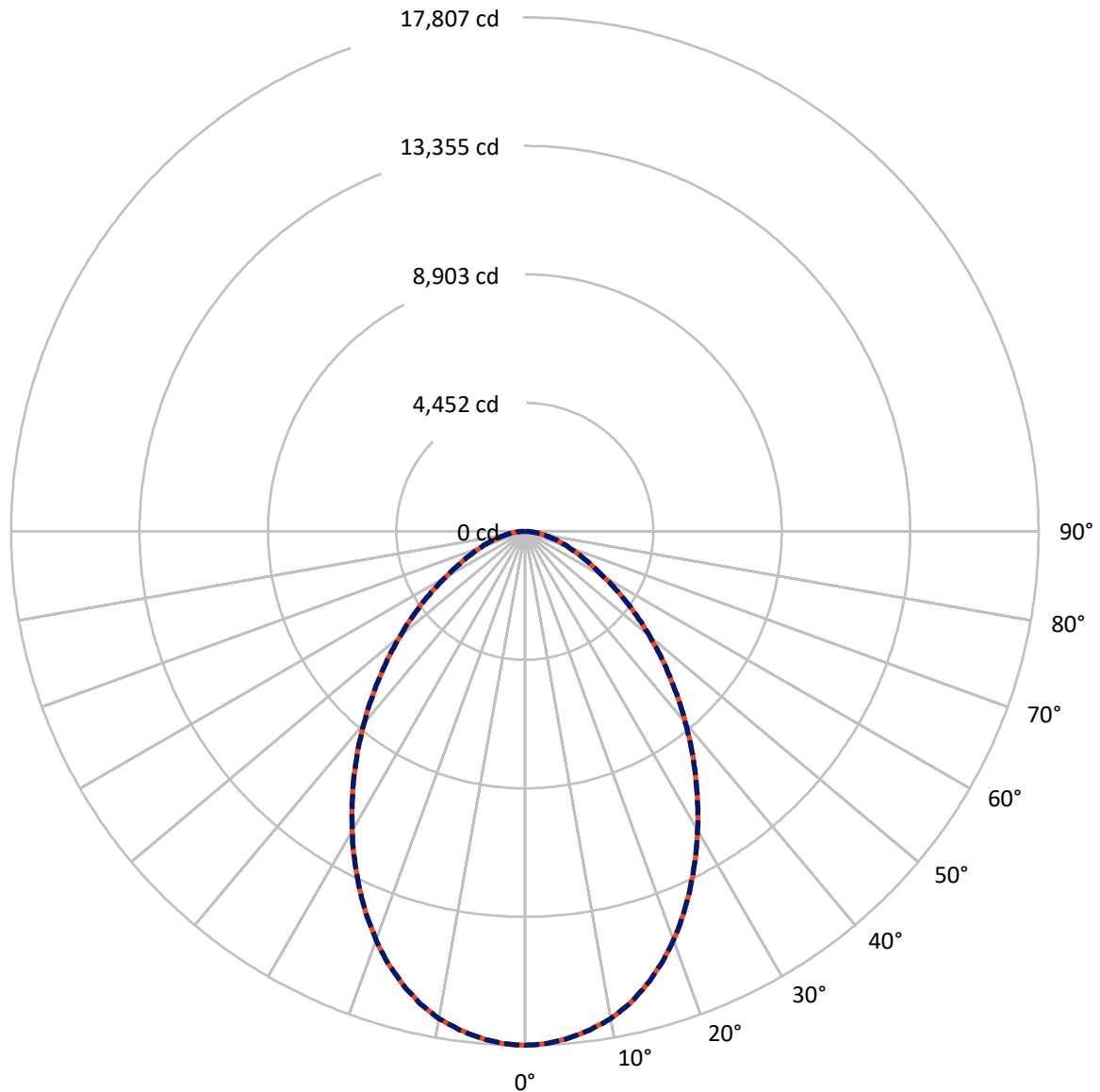
REPORT NUMBER: P624518
CATALOG NUMBER: IFLD-L-SA7D-927-U-77

Lumen Table



REPORT NUMBER: P624518
CATALOG NUMBER: IFLD-L-SA7D-927-U-77

Luminous Intensity Polar Plot

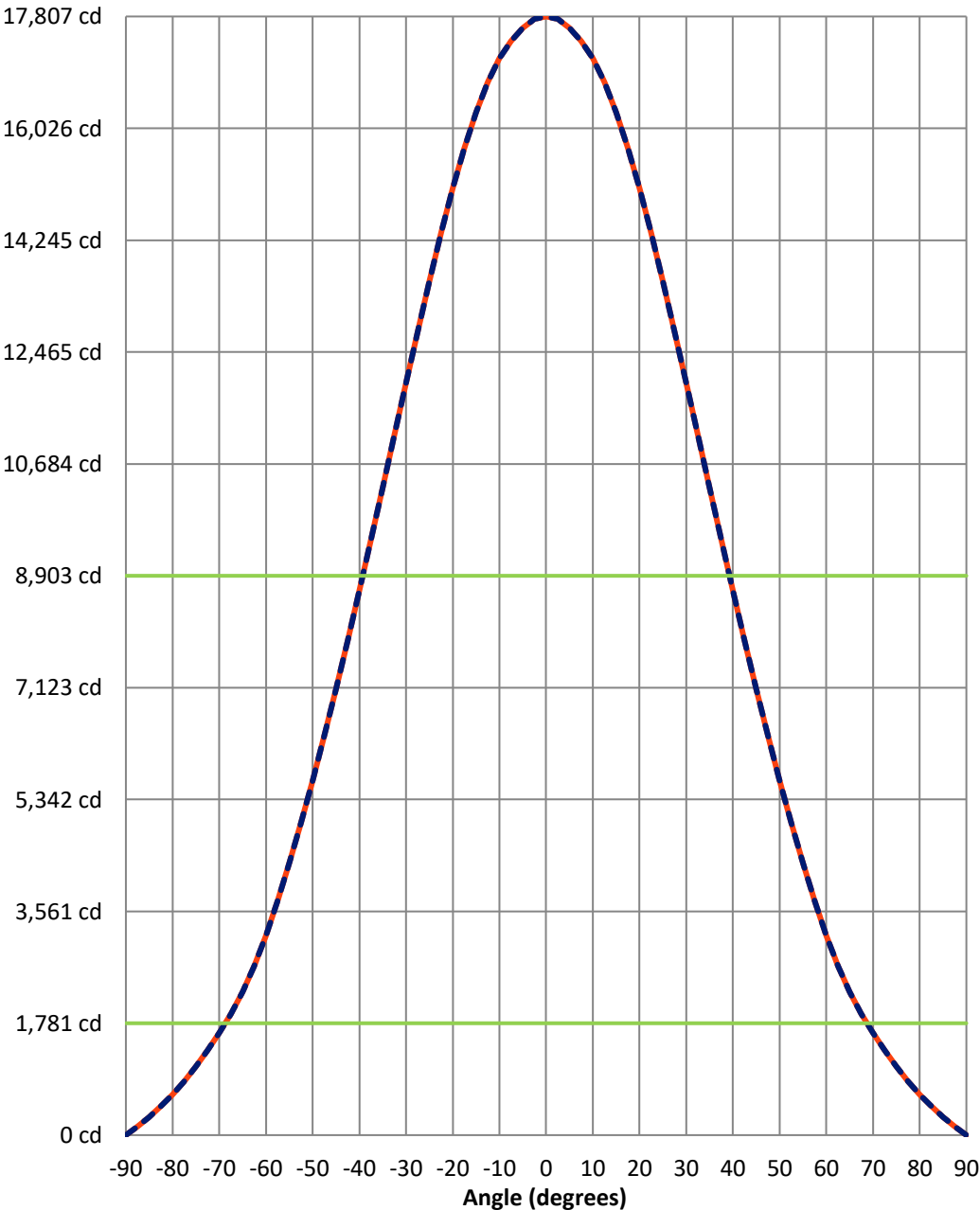


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



REPORT NUMBER: P624518
CATALOG NUMBER: IFLD-L-SA7D-927-U-77

Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 13872.7
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 22716
Efficiency: 70.9%

Spill:
Lumens: 9345.4
Efficiency: 29.1%

REPORT NUMBER: P624518

CATALOG NUMBER: IFLD-L-SA7D-927-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°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	130.4	130.4	127.0	123.7
85°	287.5	287.5	287.5	287.5	287.5	280.8	277.4	274.1	270.8	264.1	260.7
82.5°	461.3	461.3	461.3	461.3	454.6	447.9	444.6	437.9	431.2	421.2	411.2
80°	645.1	645.1	645.1	645.1	635.1	628.4	618.4	611.7	601.7	588.3	574.9
77.5°	855.7	855.7	855.7	845.7	839.0	829.0	819.0	805.6	792.2	775.5	755.5
75°	1093.1	1093.1	1093.1	1079.7	1069.7	1059.6	1042.9	1026.2	1006.2	982.8	956.0
72.5°	1350.5	1350.5	1350.5	1333.7	1323.7	1307.0	1287.0	1263.6	1240.2	1210.1	1176.6
70°	1627.9	1627.9	1627.9	1607.9	1591.1	1574.4	1547.7	1520.9	1487.5	1454.1	1414.0
67.5°	1928.8	1928.8	1928.8	1905.4	1885.3	1861.9	1831.8	1798.4	1758.3	1711.5	1664.7
65°	2279.7	2279.7	2266.4	2246.3	2222.9	2189.5	2152.7	2105.9	2055.8	1995.6	1932.1
62.5°	2694.2	2694.2	2674.2	2650.8	2620.7	2577.2	2527.1	2466.9	2396.7	2319.9	2243.0
60°	3175.6	3175.6	3152.2	3122.1	3078.7	3025.2	2958.3	2881.4	2794.5	2697.6	2604.0
57.5°	3730.5	3730.5	3700.4	3660.3	3606.8	3540.0	3456.4	3359.4	3249.1	3128.8	3011.8
55°	4332.2	4332.2	4295.4	4248.6	4185.1	4104.9	4004.6	3890.9	3757.2	3620.2	3469.8
52.5°	4970.6	4970.6	4927.2	4873.7	4800.2	4706.6	4592.9	4459.2	4305.4	4145.0	3967.8
50°	5642.5	5642.5	5592.4	5532.2	5448.7	5338.3	5208.0	5054.2	4883.7	4696.5	4492.6
47.5°	6361.2	6361.2	6304.4	6234.2	6133.9	6006.9	5853.1	5676.0	5482.1	5271.5	5040.8
45°	7100.0	7100.0	7036.4	6956.2	6845.9	6702.2	6531.7	6361.2	6113.9	5869.8	5602.4
42.5°	7868.8	7868.8	7795.3	7705.0	7578.0	7420.9	7227.0	7006.4	6762.3	6488.2	6197.4
40°	8667.7	8667.7	8584.1	8480.5	8340.1	8159.6	7942.3	7695.0	7420.9	7116.7	6795.8
37.5°	9483.3	9483.3	9389.7	9276.1	9119.0	8918.4	8674.4	8400.3	8092.8	7755.1	7400.8
35°	10305.6	10305.6	10202.0	10078.3	9904.5	9683.9	9419.8	9115.6	8774.7	8407.0	8009.2
32.5°	11144.7	11144.7	11031.0	10890.6	10693.4	10449.4	10158.6	9827.6	9483.3	9055.5	8620.9
30°	11973.7	11973.7	11850.0	11696.2	11485.6	11218.2	10900.6	10536.3	10131.8	9693.9	9225.9
27.5°	12789.3	12755.9	12652.2	12488.4	12257.8	11973.7	11629.4	11234.9	10797.0	10315.7	9814.3
25°	13591.5	13554.8	13441.1	13260.6	13013.3	12702.4	12331.3	11910.2	11438.8	10930.7	10382.5
22.5°	14360.4	14320.3	14199.9	14006.0	13742.0	13404.4	13006.6	12555.3	12053.9	11509.0	10930.7
20°	15072.4	15028.9	14905.2	14701.3	14427.2	14069.6	13648.4	13163.7	12628.8	12053.9	11438.8
17.5°	15714.2	15670.7	15540.4	15329.8	15072.4	14674.6	14240.0	13728.6	13163.7	12555.3	11910.2
15°	16279.1	16232.3	16098.6	15888.0	15593.8	15219.5	14761.5	14240.0	13648.4	13006.6	12331.3
12.5°	16760.5	16713.7	16576.6	16366.0	16061.8	15687.4	15219.5	14674.6	14069.6	13404.4	12702.4
10°	17141.5	17094.7	16964.4	16763.8	16449.6	16061.8	15593.8	15072.4	14427.2	13742.0	13013.3
7.5°	17415.6	17372.2	17251.8	17051.3	16763.8	16366.0	15888.0	15329.8	14701.3	14006.0	13260.6
5°	17622.9	17572.7	17452.4	17251.8	16964.4	16576.6	16098.6	15540.4	14905.2	14199.9	13441.1
2.5°	17766.6	17706.4	17572.7	17372.2	17094.7	16713.7	16232.3	15670.7	15028.9	14320.3	13554.8
0°	17806.7	17766.6	17622.9	17415.6	17141.5	16760.5	16279.1	15714.2	15072.4	14360.4	13591.5

REPORT NUMBER: P624518

CATALOG NUMBER: IFLD-L-SA7D-927-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°	120.3	120.3	117.0	113.7	110.3	103.6	100.3	96.9	93.6	86.9	83.6
85°	254.0	247.4	240.7	234.0	224.0	217.3	207.2	200.6	190.5	180.5	170.5
82.5°	401.1	391.1	377.7	367.7	354.3	337.6	324.2	307.5	290.8	277.4	260.7
80°	561.6	544.9	528.2	511.4	491.4	471.3	451.3	431.2	407.8	384.4	361.0
77.5°	735.4	712.0	688.6	661.9	638.5	611.7	585.0	558.2	528.2	498.1	468.0
75°	929.3	899.2	865.8	832.3	802.3	765.5	728.7	691.9	651.8	615.1	574.9
72.5°	1139.9	1103.1	1063.0	1022.9	979.4	932.6	885.8	835.7	788.9	742.1	691.9
70°	1367.2	1323.7	1273.6	1223.4	1170.0	1113.1	1056.3	996.1	936.0	875.8	815.6
67.5°	1611.2	1557.7	1497.5	1437.4	1370.5	1303.7	1236.8	1166.6	1093.1	1019.5	949.3
65°	1871.9	1805.1	1734.9	1658.0	1581.1	1504.2	1424.0	1340.4	1256.9	1170.0	1093.1
62.5°	2162.7	2079.2	1988.9	1895.3	1808.4	1714.8	1627.9	1524.3	1424.0	1327.1	1230.1
60°	2500.4	2390.1	2279.7	2162.7	2052.4	1932.1	1825.1	1711.5	1597.8	1487.5	1373.9
57.5°	2878.1	2737.7	2604.0	2463.6	2316.5	2182.8	2045.8	1908.7	1781.7	1651.3	1527.6
55°	3306.0	3135.5	2968.3	2794.5	2624.0	2456.9	2283.1	2129.3	1972.2	1825.1	1681.4
52.5°	3773.9	3580.1	3372.8	3175.6	2958.3	2751.1	2557.2	2363.3	2179.5	2002.3	1838.5
50°	4275.4	4048.0	3810.7	3570.0	3322.7	3078.7	2844.7	2617.4	2403.4	2196.2	2002.3
47.5°	4796.8	4539.4	4268.7	3994.6	3730.5	3433.0	3152.2	2894.8	2637.4	2403.4	2179.5
45°	5331.7	5040.8	4743.3	4432.5	4121.6	3800.7	3489.8	3175.6	2894.8	2617.4	2363.3
42.5°	5883.2	5555.6	5224.7	4880.4	4536.1	4185.1	3834.1	3489.8	3152.2	2844.7	2557.2
40°	6451.5	6090.5	5712.7	5338.3	4970.6	4569.5	4185.1	3800.7	3433.0	3078.7	2751.1
37.5°	7019.7	6625.3	6217.5	5796.3	5375.1	4970.6	4536.1	4121.6	3730.5	3322.7	2958.3
35°	7591.3	7156.8	6715.5	6257.6	5796.3	5338.3	4880.4	4432.5	3994.6	3570.0	3175.6
32.5°	8166.3	7691.6	7203.6	6715.5	6217.5	5712.7	5224.7	4743.3	4268.7	3810.7	3372.8
30°	8731.2	8216.4	7691.6	7156.8	6625.3	6090.5	5555.6	5040.8	4539.4	4048.0	3580.1
27.5°	9282.8	8731.2	8166.3	7591.3	7019.7	6451.5	5883.2	5331.7	4796.8	4275.4	3773.9
25°	9814.3	9225.9	8620.9	8009.2	7400.8	6795.8	6197.4	5602.4	5040.8	4492.6	3967.8
22.5°	10315.7	9693.9	9055.5	8407.0	7755.1	7116.7	6488.2	5869.8	5271.5	4696.5	4145.0
20°	10797.0	10131.8	9483.3	8774.7	8092.8	7420.9	6762.3	6113.9	5482.1	4883.7	4305.4
17.5°	11234.9	10536.3	9827.6	9115.6	8400.3	7695.0	7006.4	6361.2	5676.0	5054.2	4459.2
15°	11629.4	10900.6	10158.6	9419.8	8674.4	7942.3	7227.0	6531.7	5853.1	5208.0	4592.9
12.5°	11973.7	11218.2	10449.4	9683.9	8918.4	8159.6	7420.9	6702.2	6006.9	5338.3	4706.6
10°	12257.8	11485.6	10693.4	9904.5	9119.0	8340.1	7578.0	6845.9	6133.9	5448.7	4800.2
7.5°	12488.4	11696.2	10890.6	10078.3	9276.1	8480.5	7705.0	6956.2	6234.2	5532.2	4873.7
5°	12652.2	11850.0	11031.0	10202.0	9389.7	8584.1	7795.3	7036.4	6304.4	5592.4	4927.2
2.5°	12755.9	11973.7	11144.7	10305.6	9483.3	8667.7	7868.8	7100.0	6361.2	5642.5	4970.6
0°	12789.3	11973.7	11144.7	10305.6	9483.3	8667.7	7868.8	7100.0	6361.2	5642.5	4970.6

REPORT NUMBER: P624518

CATALOG NUMBER: IFLD-L-SA7D-927-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°	80.2	73.5	66.9	63.5	56.8	53.5	46.8	40.1	36.8	30.1	23.4
85°	160.5	147.1	137.1	127.0	117.0	103.6	93.6	83.6	70.2	60.2	46.8
82.5°	244.0	227.3	210.6	193.9	177.2	160.5	140.4	123.7	107.0	90.3	70.2
80°	337.6	310.9	287.5	264.1	240.7	217.3	190.5	167.1	140.4	117.0	93.6
77.5°	434.6	404.5	371.0	337.6	304.2	274.1	240.7	210.6	180.5	147.1	117.0
75°	538.2	498.1	461.3	417.8	377.7	334.3	294.2	254.0	217.3	180.5	140.4
72.5°	645.1	595.0	544.9	498.1	447.9	397.8	351.0	300.8	254.0	210.6	167.1
70°	755.5	695.3	635.1	578.3	521.5	461.3	407.8	351.0	294.2	240.7	190.5
67.5°	872.5	802.3	732.1	658.5	595.0	528.2	461.3	397.8	334.3	274.1	217.3
65°	999.5	915.9	829.0	752.1	668.5	595.0	521.5	447.9	377.7	304.2	240.7
62.5°	1129.8	1032.9	936.0	839.0	752.1	658.5	578.3	498.1	417.8	337.6	264.1
60°	1263.6	1153.2	1042.9	936.0	829.0	732.1	635.1	544.9	461.3	371.0	287.5
57.5°	1400.6	1276.9	1153.2	1032.9	915.9	802.3	695.3	595.0	498.1	404.5	310.9
55°	1541.0	1400.6	1263.6	1129.8	999.5	872.5	755.5	645.1	538.2	434.6	337.6
52.5°	1681.4	1527.6	1373.9	1230.1	1093.1	949.3	815.6	691.9	574.9	468.0	361.0
50°	1825.1	1651.3	1487.5	1327.1	1170.0	1019.5	875.8	742.1	615.1	498.1	384.4
47.5°	1972.2	1781.7	1597.8	1424.0	1256.9	1093.1	936.0	788.9	651.8	528.2	407.8
45°	2129.3	1908.7	1711.5	1524.3	1340.4	1166.6	996.1	835.7	691.9	558.2	431.2
42.5°	2283.1	2045.8	1825.1	1627.9	1424.0	1236.8	1056.3	885.8	728.7	585.0	451.3
40°	2456.9	2182.8	1932.1	1714.8	1504.2	1303.7	1113.1	932.6	765.5	611.7	471.3
37.5°	2624.0	2316.5	2052.4	1808.4	1581.1	1370.5	1170.0	979.4	802.3	638.5	491.4
35°	2794.5	2463.6	2162.7	1895.3	1658.0	1437.4	1223.4	1022.9	832.3	661.9	511.4
32.5°	2968.3	2604.0	2279.7	1988.9	1734.9	1497.5	1273.6	1063.0	865.8	688.6	528.2
30°	3135.5	2737.7	2390.1	2079.2	1805.1	1557.7	1323.7	1103.1	899.2	712.0	544.9
27.5°	3306.0	2878.1	2500.4	2162.7	1871.9	1611.2	1367.2	1139.9	929.3	735.4	561.6
25°	3469.8	3011.8	2604.0	2243.0	1932.1	1664.7	1414.0	1176.6	956.0	755.5	574.9
22.5°	3620.2	3128.8	2697.6	2319.9	1995.6	1711.5	1454.1	1210.1	982.8	775.5	588.3
20°	3757.2	3249.1	2794.5	2396.7	2055.8	1758.3	1487.5	1240.2	1006.2	792.2	601.7
17.5°	3890.9	3359.4	2881.4	2466.9	2105.9	1798.4	1520.9	1263.6	1026.2	805.6	611.7
15°	4004.6	3456.4	2958.3	2527.1	2152.7	1831.8	1547.7	1287.0	1042.9	819.0	618.4
12.5°	4104.9	3540.0	3025.2	2577.2	2189.5	1861.9	1574.4	1307.0	1059.6	829.0	628.4
10°	4185.1	3606.8	3078.7	2620.7	2222.9	1885.3	1591.1	1323.7	1069.7	839.0	635.1
7.5°	4248.6	3660.3	3122.1	2650.8	2246.3	1905.4	1607.9	1333.7	1079.7	845.7	645.1
5°	4295.4	3700.4	3152.2	2674.2	2266.4	1928.8	1627.9	1350.5	1093.1	855.7	645.1
2.5°	4332.2	3730.5	3175.6	2694.2	2279.7	1928.8	1627.9	1350.5	1093.1	855.7	645.1
0°	4332.2	3730.5	3175.6	2694.2	2279.7	1928.8	1627.9	1350.5	1093.1	855.7	645.1

REPORT NUMBER: P624518

CATALOG NUMBER: IFLD-L-SA7D-927-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.7	13.4	6.7	0.0
85°	36.8	23.4	13.4	0.0
82.5°	53.5	36.8	16.7	0.0
80°	70.2	46.8	23.4	0.0
77.5°	90.3	60.2	30.1	0.0
75°	107.0	70.2	36.8	0.0
72.5°	123.7	83.6	40.1	0.0
70°	140.4	93.6	46.8	0.0
67.5°	160.5	103.6	53.5	0.0
65°	177.2	117.0	56.8	0.0
62.5°	193.9	127.0	63.5	0.0
60°	210.6	137.1	66.9	0.0
57.5°	227.3	147.1	73.5	0.0
55°	244.0	160.5	80.2	0.0
52.5°	260.7	170.5	83.6	0.0
50°	277.4	180.5	86.9	0.0
47.5°	290.8	190.5	93.6	0.0
45°	307.5	200.6	96.9	0.0
42.5°	324.2	207.2	100.3	0.0
40°	337.6	217.3	103.6	0.0
37.5°	354.3	224.0	110.3	0.0
35°	367.7	234.0	113.7	0.0
32.5°	377.7	240.7	117.0	0.0
30°	391.1	247.4	120.3	0.0
27.5°	401.1	254.0	120.3	0.0
25°	411.2	260.7	123.7	0.0
22.5°	421.2	264.1	127.0	0.0
20°	431.2	270.8	130.4	0.0
17.5°	437.9	274.1	130.4	0.0
15°	444.6	277.4	137.1	0.0
12.5°	447.9	280.8	137.1	0.0
10°	454.6	287.5	137.1	0.0
7.5°	461.3	287.5	137.1	0.0
5°	461.3	287.5	137.1	0.0
2.5°	461.3	287.5	137.1	0.0
0°	461.3	287.5	137.1	0.0

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