

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: P624632

Luminaire Tested: **IFLD-L-SA7B-950-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624632
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-950-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26716 lumens	Max Intensity:	14837.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.1 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:	11559.8 lumens	Field Lumens:	18928.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

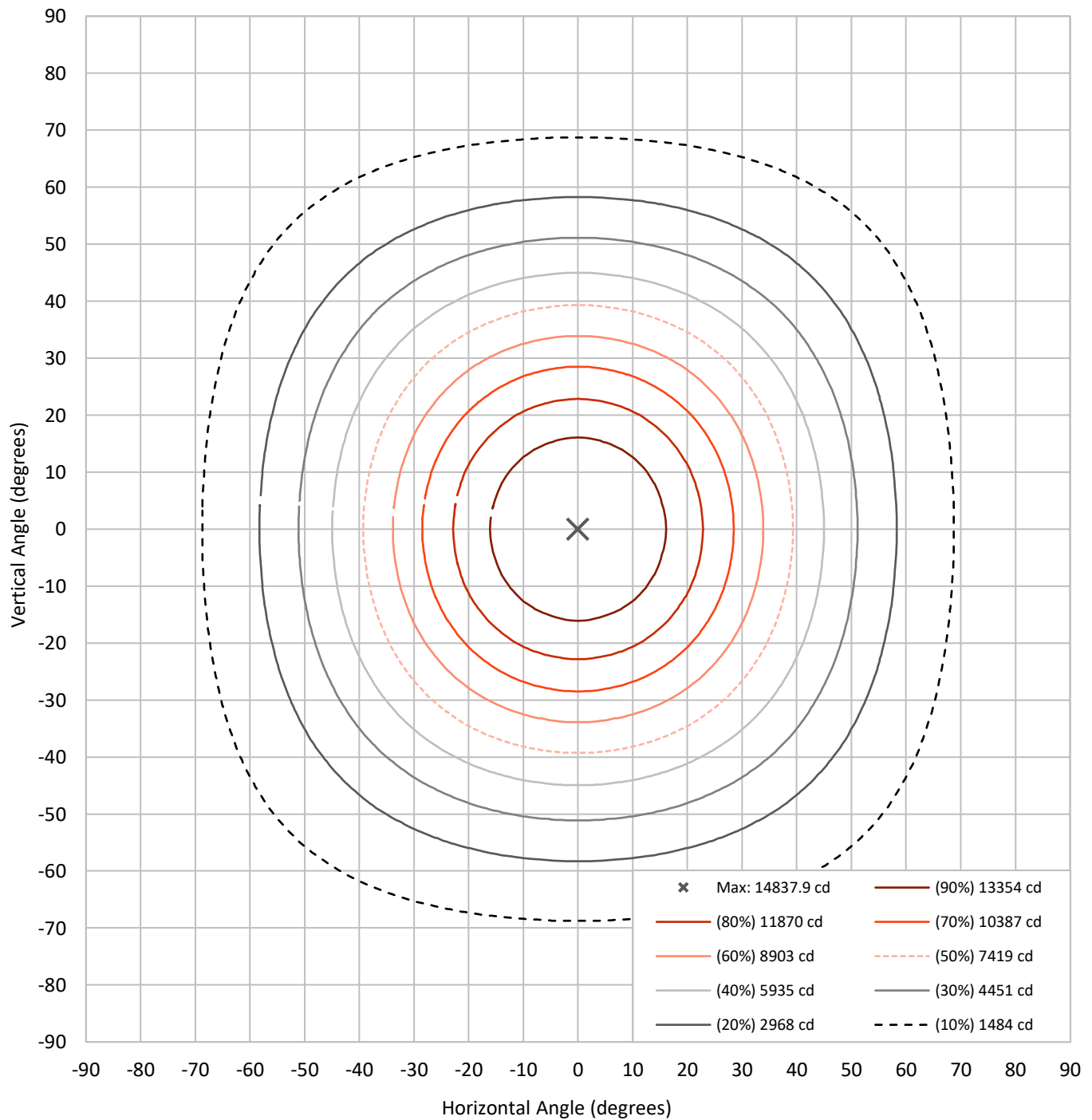
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P624632

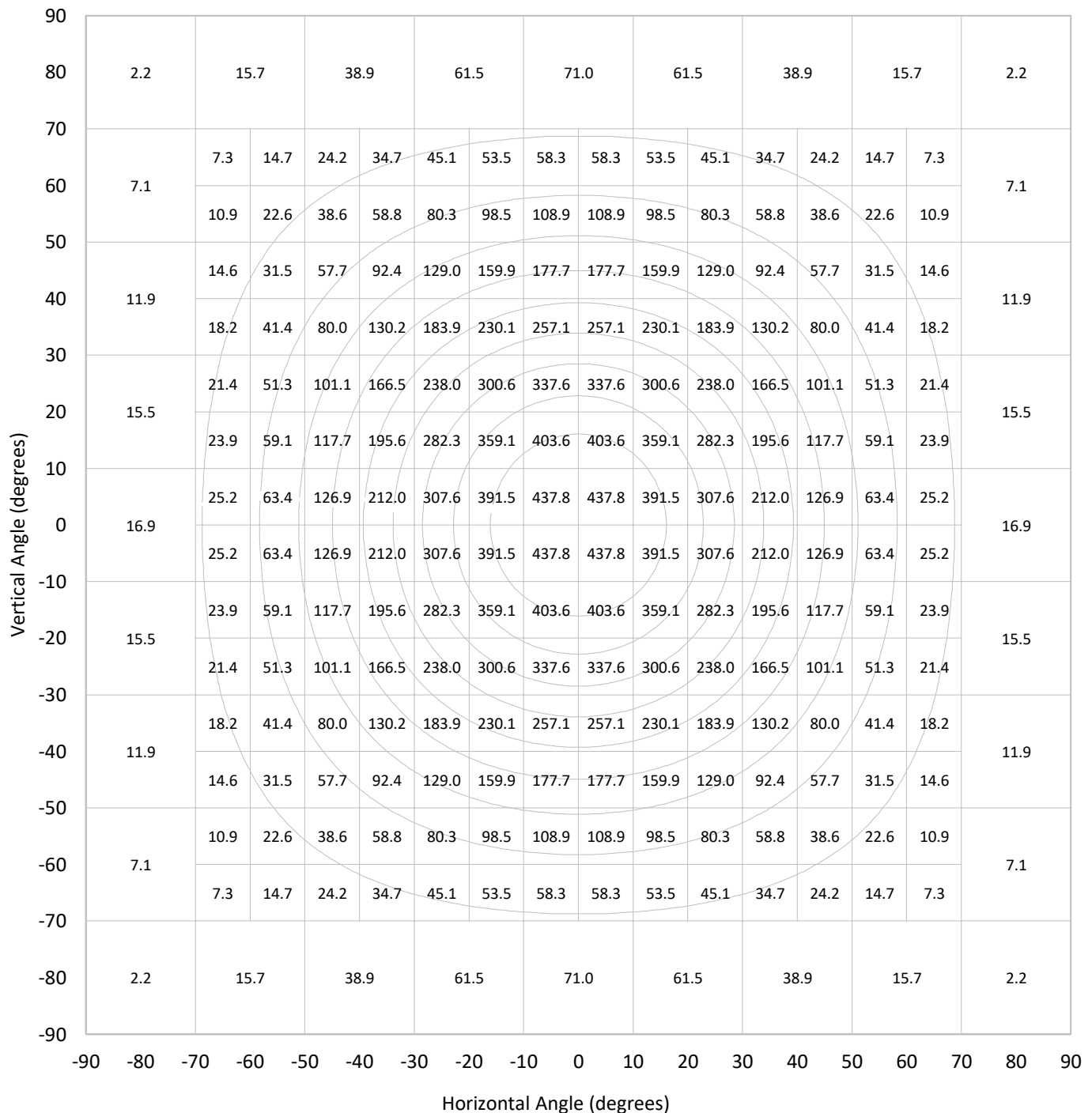
CATALOG NUMBER: IFLD-L-SA7B-950-U-77

Iso-Candela Plot



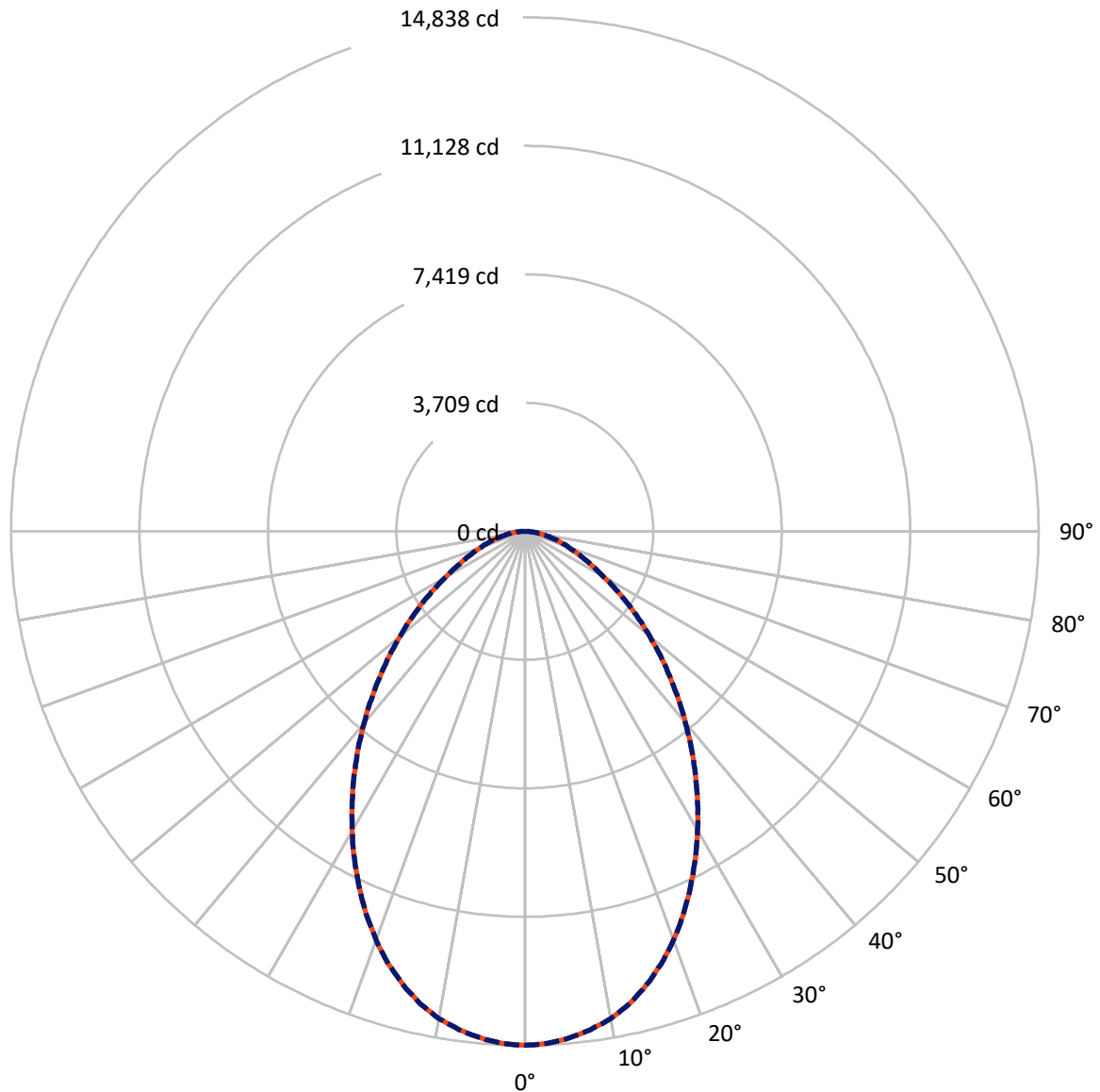
REPORT NUMBER: P624632
CATALOG NUMBER: IFLD-L-SA7B-950-U-77

Lumen Table



REPORT NUMBER: P624632
CATALOG NUMBER: IFLD-L-SA7B-950-U-77

Luminous Intensity Polar Plot

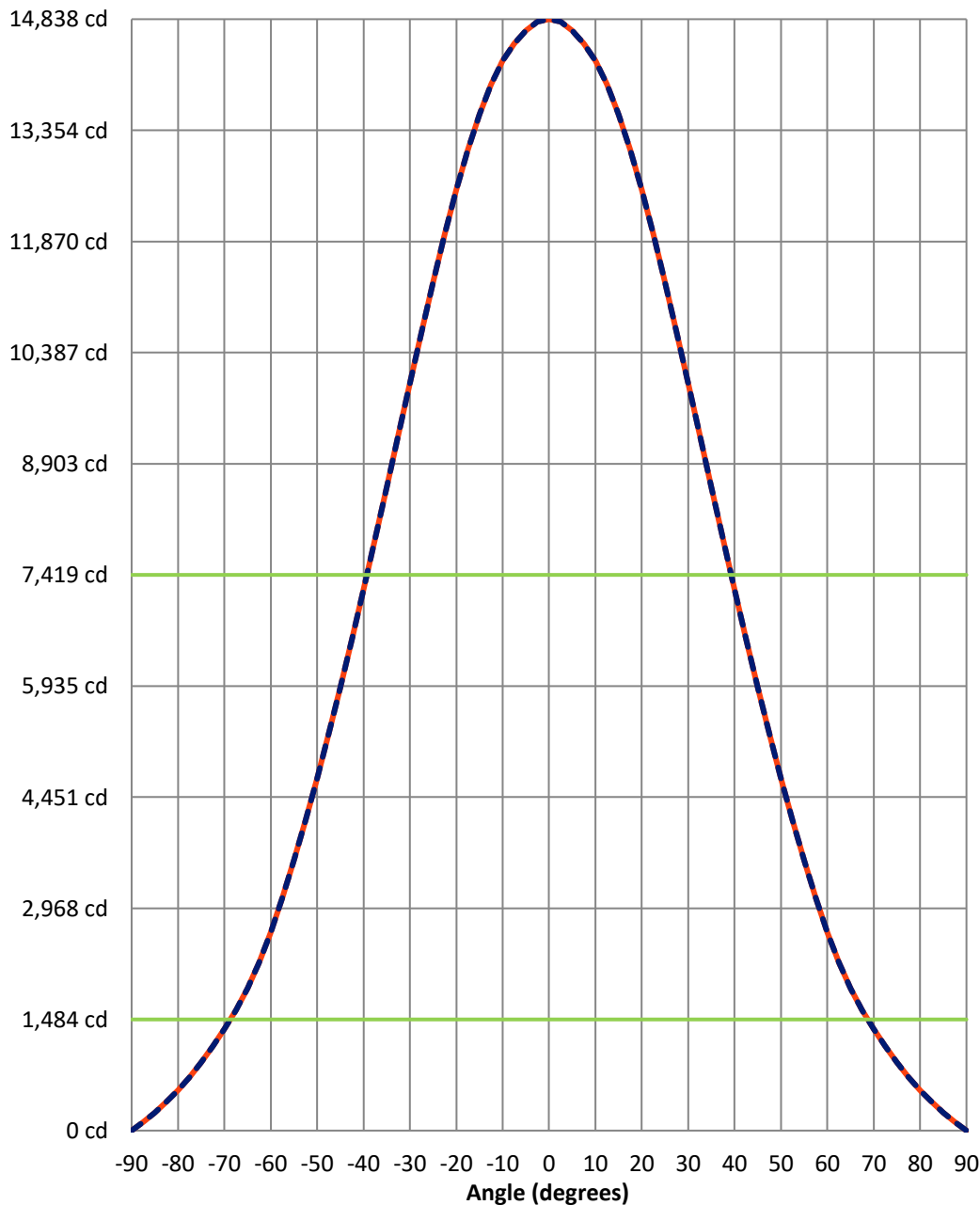


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624632

CATALOG NUMBER: IFLD-L-SA7B-950-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11559.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 18928.7
Efficiency: 70.9%

Spill:

Lumens: 7787.3
Efficiency: 29.1%

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

REPORT NUMBER: P624632

CATALOG NUMBER: IFLD-L-SA7B-950-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°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	108.6	108.6	105.8	103.1
85°	239.5	239.5	239.5	239.5	239.5	234.0	231.2	228.4	225.6	220.0	217.3
82.5°	384.4	384.4	384.4	384.4	378.8	373.2	370.5	364.9	359.3	351.0	342.6
80°	537.6	537.6	537.6	537.6	529.2	523.7	515.3	509.7	501.4	490.2	479.1
77.5°	713.1	713.1	713.1	704.7	699.1	690.8	682.4	671.3	660.1	646.2	629.5
75°	910.8	910.8	910.8	899.7	891.3	883.0	869.1	855.1	838.4	818.9	796.6
72.5°	1125.3	1125.3	1125.3	1111.4	1103.0	1089.1	1072.4	1052.9	1033.4	1008.3	980.5
70°	1356.5	1356.5	1356.5	1339.8	1325.9	1311.9	1289.7	1267.4	1239.5	1211.7	1178.2
67.5°	1607.2	1607.2	1607.2	1587.7	1571.0	1551.5	1526.4	1498.6	1465.1	1426.1	1387.1
65°	1899.7	1899.7	1888.5	1871.8	1852.3	1824.5	1793.8	1754.8	1713.0	1662.9	1610.0
62.5°	2245.0	2245.0	2228.3	2208.8	2183.8	2147.6	2105.8	2055.6	1997.1	1933.1	1869.0
60°	2646.2	2646.2	2626.7	2601.6	2565.4	2520.8	2465.1	2401.0	2328.6	2247.8	2169.8
57.5°	3108.5	3108.5	3083.5	3050.0	3005.5	2949.8	2880.1	2799.3	2707.4	2607.2	2509.7
55°	3609.9	3609.9	3579.3	3540.3	3487.3	3420.5	3336.9	3242.2	3130.8	3016.6	2891.3
52.5°	4141.9	4141.9	4105.7	4061.1	3999.9	3921.9	3827.2	3715.8	3587.6	3453.9	3306.3
50°	4701.8	4701.8	4660.0	4609.9	4540.2	4448.3	4339.7	4211.6	4069.5	3913.5	3743.6
47.5°	5300.7	5300.7	5253.3	5194.8	5111.2	5005.4	4877.3	4729.6	4568.1	4392.6	4200.4
45°	5916.2	5916.2	5863.3	5796.5	5704.5	5584.8	5442.7	5300.7	5094.5	4891.2	4668.4
42.5°	6556.9	6556.9	6495.6	6420.4	6314.6	6183.6	6022.1	5838.2	5634.9	5406.5	5164.2
40°	7222.6	7222.6	7153.0	7066.6	6949.6	6799.2	6618.2	6412.0	6183.6	5930.2	5662.8
37.5°	7902.2	7902.2	7824.2	7729.5	7598.6	7431.5	7228.2	6999.8	6743.5	6462.2	6166.9
35°	8587.5	8587.5	8501.1	8398.0	8253.2	8069.4	7849.3	7595.8	7311.7	7005.3	6673.9
32.5°	9286.6	9286.6	9191.9	9074.9	8910.6	8707.2	8464.9	8189.1	7902.2	7545.7	7183.6
30°	9977.4	9977.4	9874.3	9746.2	9570.7	9347.9	9083.3	8779.6	8442.6	8077.7	7687.8
27.5°	10657.0	10629.2	10542.8	10406.3	10214.1	9977.4	9690.5	9361.8	8996.9	8595.8	8178.0
25°	11325.5	11294.9	11200.2	11049.8	10843.6	10584.6	10275.4	9924.5	9531.7	9108.3	8651.5
22.5°	11966.2	11932.7	11832.5	11670.9	11450.9	11169.5	10838.1	10462.0	10044.2	9590.2	9108.3
20°	12559.5	12523.3	12420.2	12250.3	12021.9	11723.8	11372.9	10969.0	10523.3	10044.2	9531.7
17.5°	13094.3	13058.1	12949.4	12773.9	12559.5	12228.0	11865.9	11439.7	10969.0	10462.0	9924.5
15°	13565.0	13526.0	13414.6	13239.1	12994.0	12682.0	12300.4	11865.9	11372.9	10838.1	10275.4
12.5°	13966.1	13927.1	13812.9	13637.4	13384.0	13072.0	12682.0	12228.0	11723.8	11169.5	10584.6
10°	14283.6	14244.6	14136.0	13968.9	13707.1	13384.0	12994.0	12559.5	12021.9	11450.9	10843.6
7.5°	14512.0	14475.8	14375.6	14208.4	13968.9	13637.4	13239.1	12773.9	12250.3	11670.9	11049.8
5°	14684.7	14643.0	14542.7	14375.6	14136.0	13812.9	13414.6	12949.4	12420.2	11832.5	11200.2
2.5°	14804.5	14754.4	14643.0	14475.8	14244.6	13927.1	13526.0	13058.1	12523.3	11932.7	11294.9
0°	14837.9	14804.5	14684.7	14512.0	14283.6	13966.1	13565.0	13094.3	12559.5	11966.2	11325.5

REPORT NUMBER: P624632

CATALOG NUMBER: IFLD-L-SA7B-950-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°	100.3	100.3	97.5	94.7	91.9	86.3	83.6	80.8	78.0	72.4	69.6
85°	211.7	206.1	200.6	195.0	186.6	181.1	172.7	167.1	158.8	150.4	142.1
82.5°	334.3	325.9	314.8	306.4	295.3	281.3	270.2	256.3	242.3	231.2	217.3
80°	468.0	454.0	440.1	426.2	409.5	392.7	376.0	359.3	339.8	320.3	300.8
77.5°	612.8	593.3	573.8	551.5	532.0	509.7	487.4	465.2	440.1	415.0	390.0
75°	774.3	749.3	721.4	693.6	668.5	637.9	607.2	576.6	543.2	512.5	479.1
72.5°	949.8	919.2	885.8	852.3	816.1	777.1	738.1	696.4	657.4	618.4	576.6
70°	1139.2	1103.0	1061.2	1019.5	974.9	927.5	880.2	830.1	779.9	729.8	679.6
67.5°	1342.6	1298.0	1247.9	1197.7	1142.0	1086.3	1030.6	972.1	910.8	849.6	791.1
65°	1559.8	1504.1	1445.6	1381.6	1317.5	1253.4	1186.6	1117.0	1047.3	974.9	910.8
62.5°	1802.2	1732.5	1657.3	1579.3	1506.9	1428.9	1356.5	1270.2	1186.6	1105.8	1025.0
60°	2083.5	1991.6	1899.7	1802.2	1710.2	1610.0	1520.8	1426.1	1331.4	1239.5	1144.8
57.5°	2398.2	2281.3	2169.8	2052.9	1930.3	1818.9	1704.7	1590.5	1484.6	1376.0	1272.9
55°	2754.8	2612.7	2473.5	2328.6	2186.6	2047.3	1902.4	1774.3	1643.4	1520.8	1401.1
52.5°	3144.7	2983.2	2810.5	2646.2	2465.1	2292.4	2130.8	1969.3	1816.1	1668.5	1532.0
50°	3562.6	3373.1	3175.4	2974.8	2768.7	2565.4	2370.4	2181.0	2002.7	1830.0	1668.5
47.5°	3997.1	3782.6	3557.0	3328.6	3108.5	2860.6	2626.7	2412.2	2197.7	2002.7	1816.1
45°	4442.7	4200.4	3952.5	3693.5	3434.4	3167.0	2908.0	2646.2	2412.2	2181.0	1969.3
42.5°	4902.3	4629.4	4353.6	4066.7	3779.8	3487.3	3194.9	2908.0	2626.7	2370.4	2130.8
40°	5375.9	5075.0	4760.3	4448.3	4141.9	3807.7	3487.3	3167.0	2860.6	2565.4	2292.4
37.5°	5849.4	5520.7	5180.9	4829.9	4479.0	4141.9	3779.8	3434.4	3108.5	2768.7	2465.1
35°	6325.7	5963.6	5595.9	5214.3	4829.9	4448.3	4066.7	3693.5	3328.6	2974.8	2646.2
32.5°	6804.8	6409.3	6002.6	5595.9	5180.9	4760.3	4353.6	3952.5	3557.0	3175.4	2810.5
30°	7275.5	6846.6	6409.3	5963.6	5520.7	5075.0	4629.4	4200.4	3782.6	3373.1	2983.2
27.5°	7735.1	7275.5	6804.8	6325.7	5849.4	5375.9	4902.3	4442.7	3997.1	3562.6	3144.7
25°	8178.0	7687.8	7183.6	6673.9	6166.9	5662.8	5164.2	4668.4	4200.4	3743.6	3306.3
22.5°	8595.8	8077.7	7545.7	7005.3	6462.2	5930.2	5406.5	4891.2	4392.6	3913.5	3453.9
20°	8996.9	8442.6	7902.2	7311.7	6743.5	6183.6	5634.9	5094.5	4568.1	4069.5	3587.6
17.5°	9361.8	8779.6	8189.1	7595.8	6999.8	6412.0	5838.2	5300.7	4729.6	4211.6	3715.8
15°	9690.5	9083.3	8464.9	7849.3	7228.2	6618.2	6022.1	5442.7	4877.3	4339.7	3827.2
12.5°	9977.4	9347.9	8707.2	8069.4	7431.5	6799.2	6183.6	5584.8	5005.4	4448.3	3921.9
10°	10214.1	9570.7	8910.6	8253.2	7598.6	6949.6	6314.6	5704.5	5111.2	4540.2	3999.9
7.5°	10406.3	9746.2	9074.9	8398.0	7729.5	7066.6	6420.4	5796.5	5194.8	4609.9	4061.1
5°	10542.8	9874.3	9191.9	8501.1	7824.2	7153.0	6495.6	5863.3	5253.3	4660.0	4105.7
2.5°	10629.2	9977.4	9286.6	8587.5	7902.2	7222.6	6556.9	5916.2	5300.7	4701.8	4141.9
0°	10657.0	9977.4	9286.6	8587.5	7902.2	7222.6	6556.9	5916.2	5300.7	4701.8	4141.9

REPORT NUMBER: P624632

CATALOG NUMBER: IFLD-L-SA7B-950-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°	66.9	61.3	55.7	52.9	47.4	44.6	39.0	33.4	30.6	25.1	19.5
85°	133.7	122.6	114.2	105.8	97.5	86.3	78.0	69.6	58.5	50.1	39.0
82.5°	203.3	189.4	175.5	161.6	147.6	133.7	117.0	103.1	89.1	75.2	58.5
80°	281.3	259.0	239.5	220.0	200.6	181.1	158.8	139.3	117.0	97.5	78.0
77.5°	362.1	337.0	309.2	281.3	253.5	228.4	200.6	175.5	150.4	122.6	97.5
75°	448.5	415.0	384.4	348.2	314.8	278.5	245.1	211.7	181.1	150.4	117.0
72.5°	537.6	495.8	454.0	415.0	373.2	331.5	292.5	250.7	211.7	175.5	139.3
70°	629.5	579.4	529.2	481.9	434.5	384.4	339.8	292.5	245.1	200.6	158.8
67.5°	727.0	668.5	610.0	548.7	495.8	440.1	384.4	331.5	278.5	228.4	181.1
65°	832.8	763.2	690.8	626.7	557.1	495.8	434.5	373.2	314.8	253.5	200.6
62.5°	941.5	860.7	779.9	699.1	626.7	548.7	481.9	415.0	348.2	281.3	220.0
60°	1052.9	961.0	869.1	779.9	690.8	610.0	529.2	454.0	384.4	309.2	239.5
57.5°	1167.1	1064.0	961.0	860.7	763.2	668.5	579.4	495.8	415.0	337.0	259.0
55°	1284.1	1167.1	1052.9	941.5	832.8	727.0	629.5	537.6	448.5	362.1	281.3
52.5°	1401.1	1272.9	1144.8	1025.0	910.8	791.1	679.6	576.6	479.1	390.0	300.8
50°	1520.8	1376.0	1239.5	1105.8	974.9	849.6	729.8	618.4	512.5	415.0	320.3
47.5°	1643.4	1484.6	1331.4	1186.6	1047.3	910.8	779.9	657.4	543.2	440.1	339.8
45°	1774.3	1590.5	1426.1	1270.2	1117.0	972.1	830.1	696.4	576.6	465.2	359.3
42.5°	1902.4	1704.7	1520.8	1356.5	1186.6	1030.6	880.2	738.1	607.2	487.4	376.0
40°	2047.3	1818.9	1610.0	1428.9	1253.4	1086.3	927.5	777.1	637.9	509.7	392.7
37.5°	2186.6	1930.3	1710.2	1506.9	1317.5	1142.0	974.9	816.1	668.5	532.0	409.5
35°	2328.6	2052.9	1802.2	1579.3	1381.6	1197.7	1019.5	852.3	693.6	551.5	426.2
32.5°	2473.5	2169.8	1899.7	1657.3	1445.6	1247.9	1061.2	885.8	721.4	573.8	440.1
30°	2612.7	2281.3	1991.6	1732.5	1504.1	1298.0	1103.0	919.2	749.3	593.3	454.0
27.5°	2754.8	2398.2	2083.5	1802.2	1559.8	1342.6	1139.2	949.8	774.3	612.8	468.0
25°	2891.3	2509.7	2169.8	1869.0	1610.0	1387.1	1178.2	980.5	796.6	629.5	479.1
22.5°	3016.6	2607.2	2247.8	1933.1	1662.9	1426.1	1211.7	1008.3	818.9	646.2	490.2
20°	3130.8	2707.4	2328.6	1997.1	1713.0	1465.1	1239.5	1033.4	838.4	660.1	501.4
17.5°	3242.2	2799.3	2401.0	2055.6	1754.8	1498.6	1267.4	1052.9	855.1	671.3	509.7
15°	3336.9	2880.1	2465.1	2105.8	1793.8	1526.4	1289.7	1072.4	869.1	682.4	515.3
12.5°	3420.5	2949.8	2520.8	2147.6	1824.5	1551.5	1311.9	1089.1	883.0	690.8	523.7
10°	3487.3	3005.5	2565.4	2183.8	1852.3	1571.0	1325.9	1103.0	891.3	699.1	529.2
7.5°	3540.3	3050.0	2601.6	2208.8	1871.8	1587.7	1339.8	1111.4	899.7	704.7	537.6
5°	3579.3	3083.5	2626.7	2228.3	1888.5	1607.2	1356.5	1125.3	910.8	713.1	537.6
2.5°	3609.9	3108.5	2646.2	2245.0	1899.7	1607.2	1356.5	1125.3	910.8	713.1	537.6
0°	3609.9	3108.5	2646.2	2245.0	1899.7	1607.2	1356.5	1125.3	910.8	713.1	537.6

REPORT NUMBER: P624632

CATALOG NUMBER: IFLD-L-SA7B-950-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.9	11.1	5.6	0.0
85°	30.6	19.5	11.1	0.0
82.5°	44.6	30.6	13.9	0.0
80°	58.5	39.0	19.5	0.0
77.5°	75.2	50.1	25.1	0.0
75°	89.1	58.5	30.6	0.0
72.5°	103.1	69.6	33.4	0.0
70°	117.0	78.0	39.0	0.0
67.5°	133.7	86.3	44.6	0.0
65°	147.6	97.5	47.4	0.0
62.5°	161.6	105.8	52.9	0.0
60°	175.5	114.2	55.7	0.0
57.5°	189.4	122.6	61.3	0.0
55°	203.3	133.7	66.9	0.0
52.5°	217.3	142.1	69.6	0.0
50°	231.2	150.4	72.4	0.0
47.5°	242.3	158.8	78.0	0.0
45°	256.3	167.1	80.8	0.0
42.5°	270.2	172.7	83.6	0.0
40°	281.3	181.1	86.3	0.0
37.5°	295.3	186.6	91.9	0.0
35°	306.4	195.0	94.7	0.0
32.5°	314.8	200.6	97.5	0.0
30°	325.9	206.1	100.3	0.0
27.5°	334.3	211.7	100.3	0.0
25°	342.6	217.3	103.1	0.0
22.5°	351.0	220.0	105.8	0.0
20°	359.3	225.6	108.6	0.0
17.5°	364.9	228.4	108.6	0.0
15°	370.5	231.2	114.2	0.0
12.5°	373.2	234.0	114.2	0.0
10°	378.8	239.5	114.2	0.0
7.5°	384.4	239.5	114.2	0.0
5°	384.4	239.5	114.2	0.0
2.5°	384.4	239.5	114.2	0.0
0°	384.4	239.5	114.2	0.0

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