

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: P624555

Luminaire Tested: **IFLD-S-SA2C-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624555
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

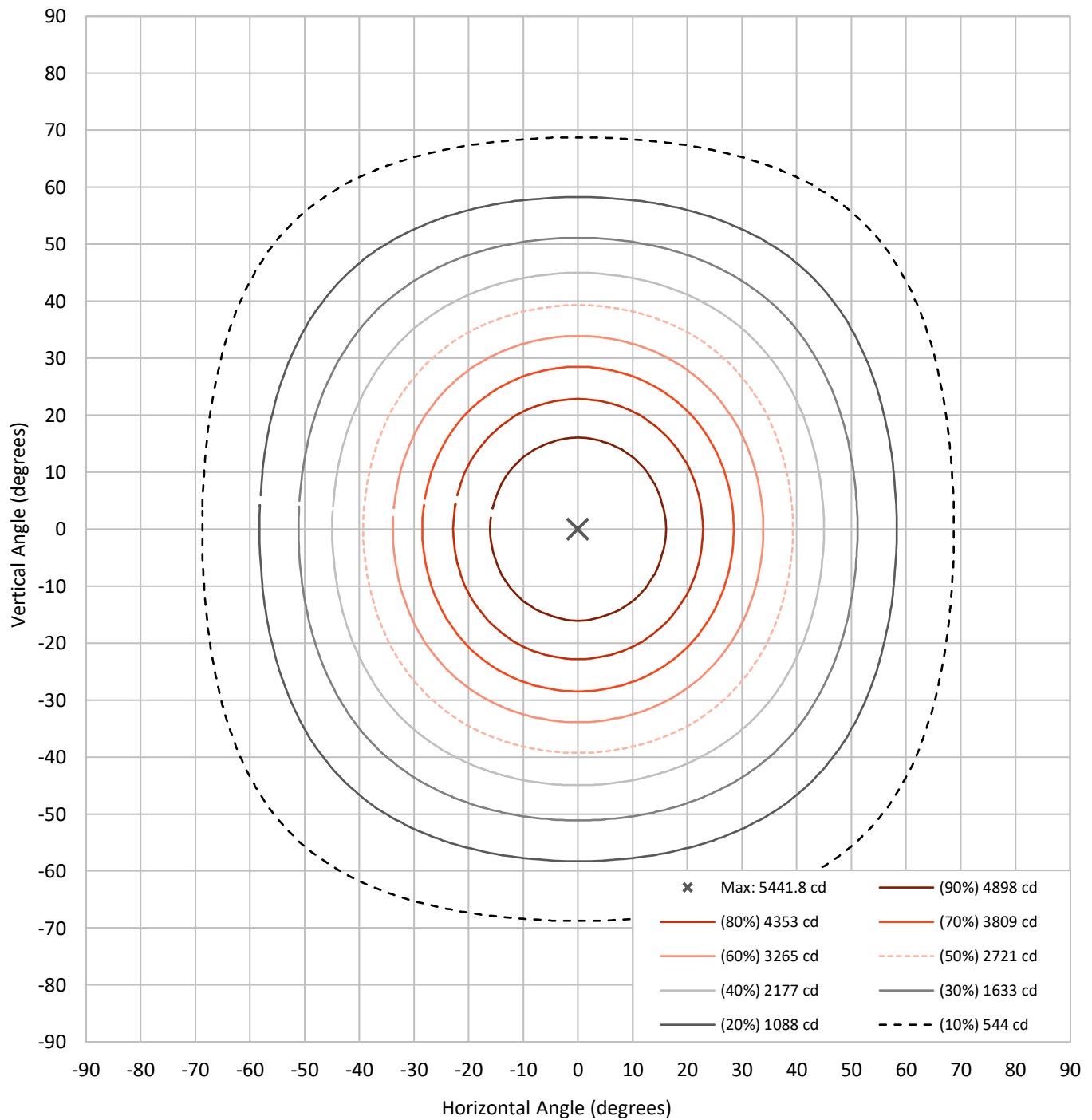
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9798.1 lumens	Max Intensity:	5441.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	90.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4239.6 lumens	Field Lumens:	6942.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	108.2		
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: P624555

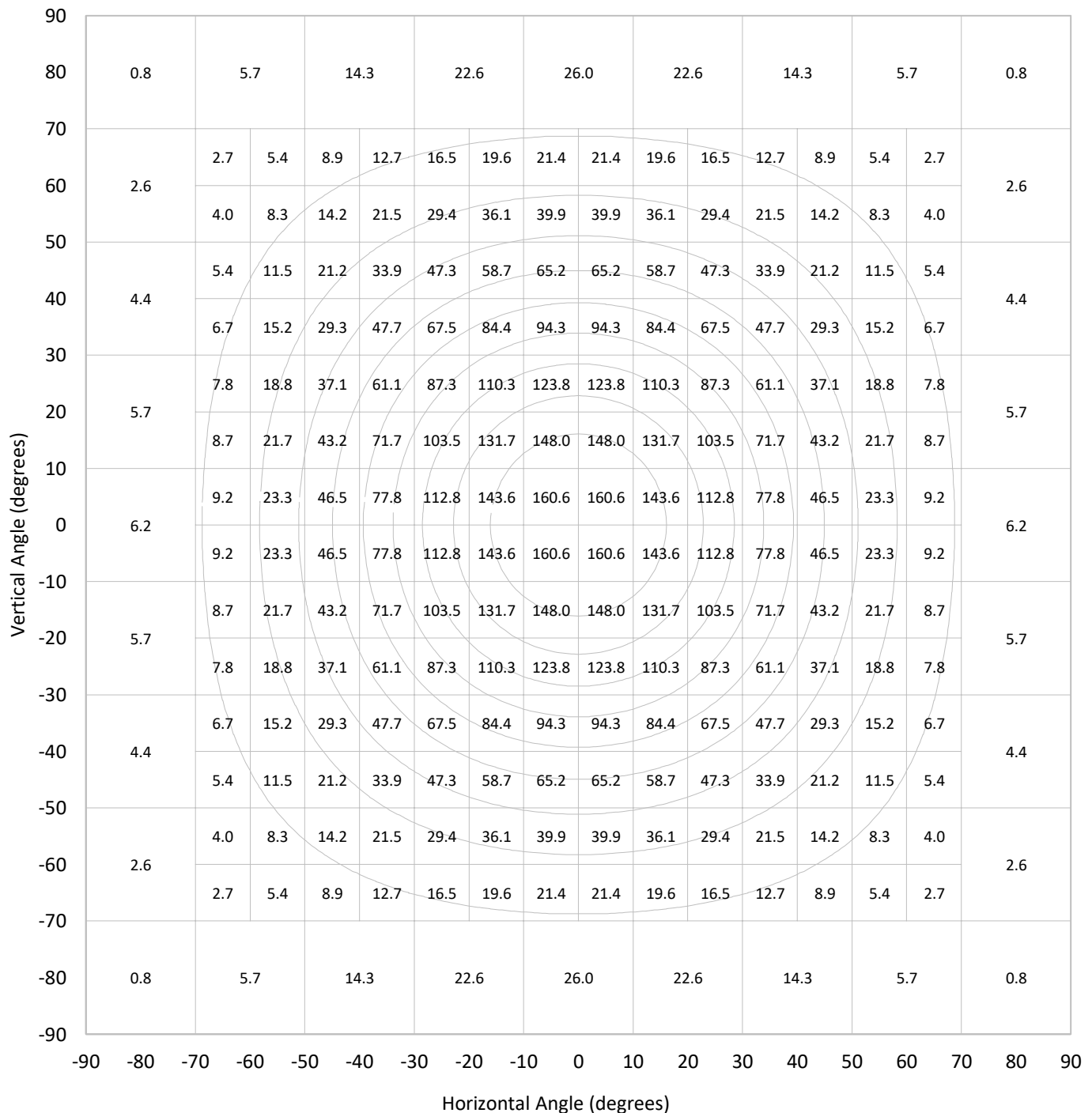
CATALOG NUMBER: IFLD-S-SA2C-935-U-77

Iso-Candela Plot



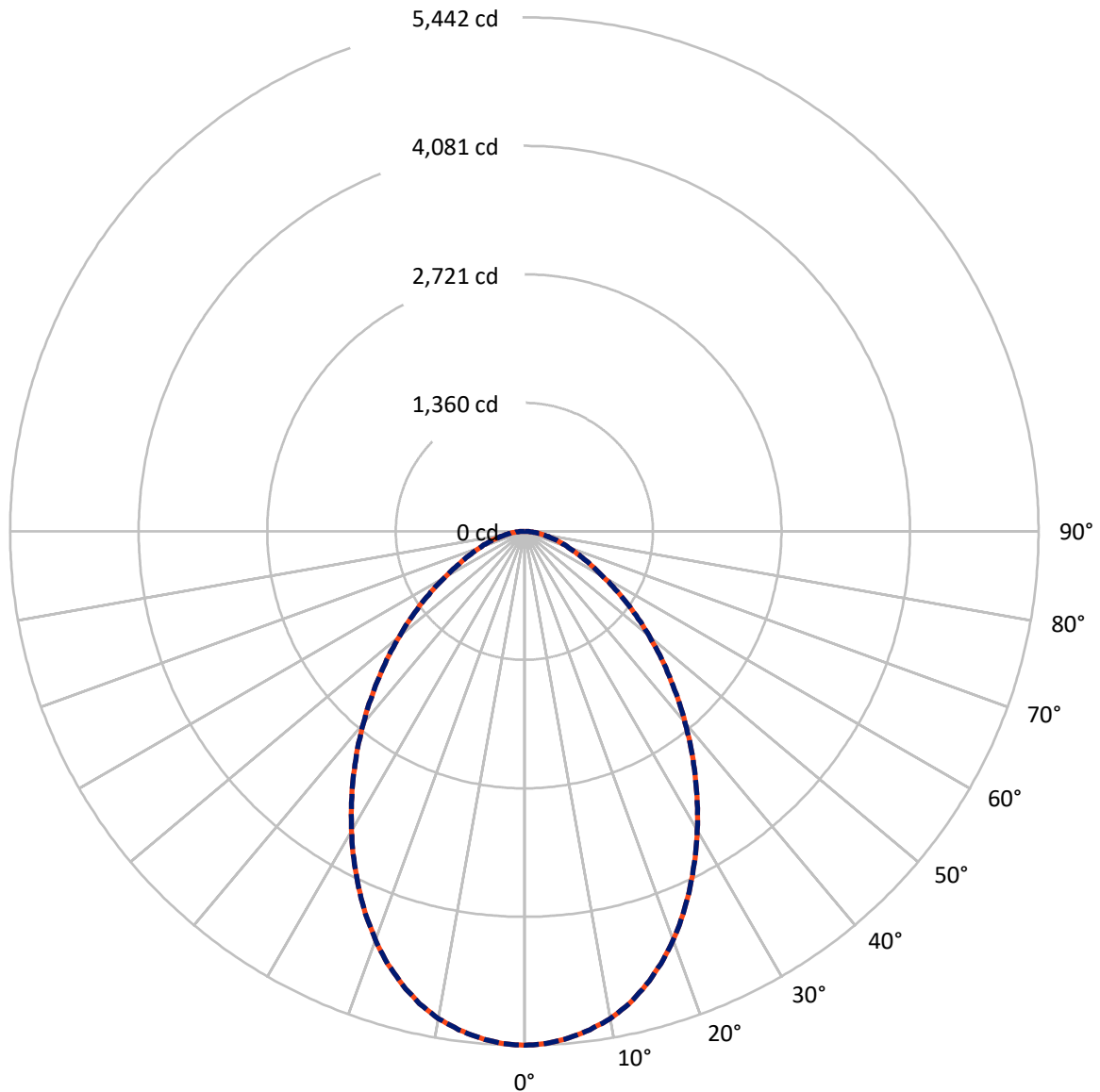
REPORT NUMBER: P624555
CATALOG NUMBER: IFLD-S-SA2C-935-U-77

Lumen Table



REPORT NUMBER: P624555
CATALOG NUMBER: IFLD-S-SA2C-935-U-77

Luminous Intensity Polar Plot

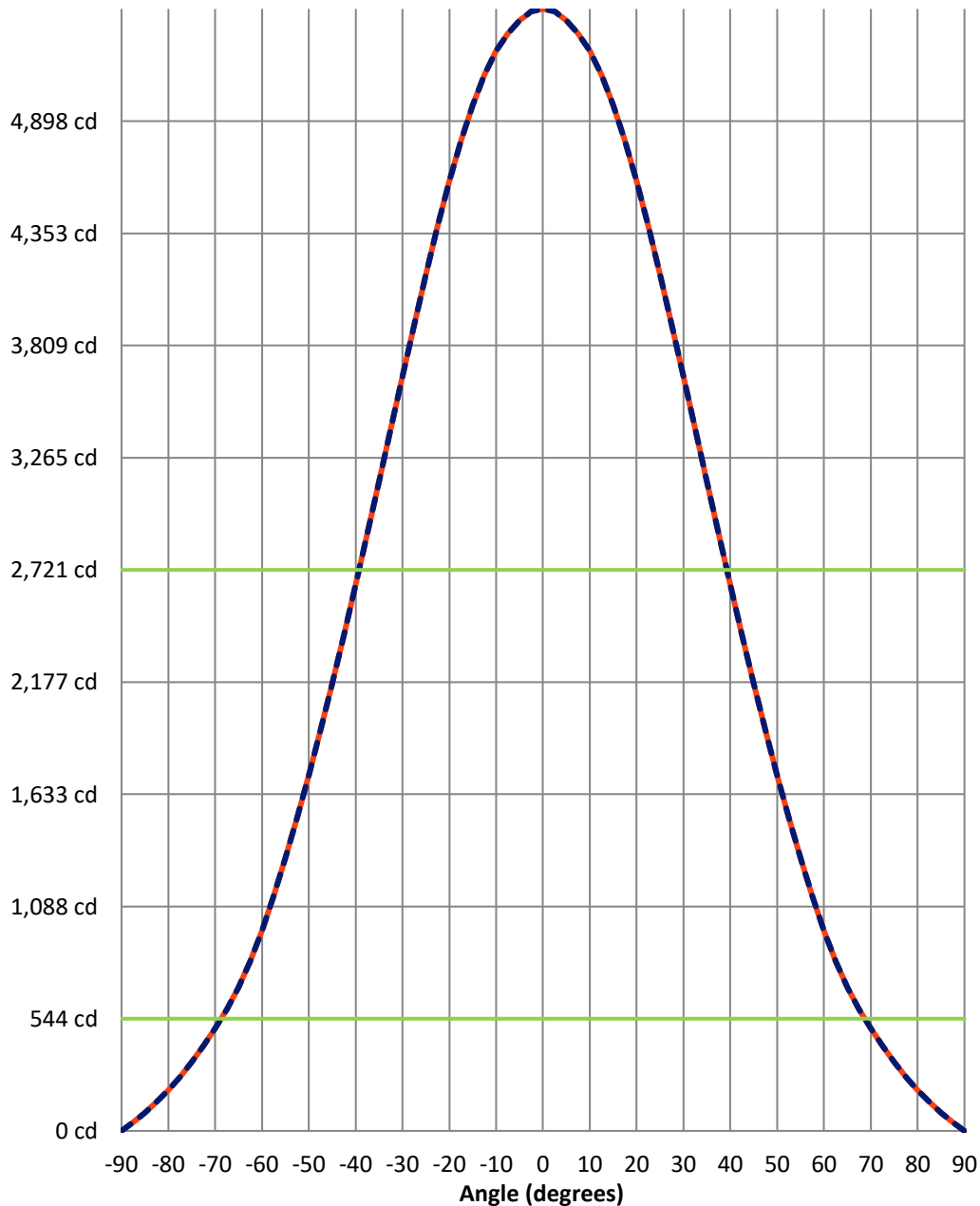


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624555

CATALOG NUMBER: IFLD-S-SA2C-935-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 4239.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 6942.1
Efficiency: 70.9%

Spill:

Lumens: 2856
Efficiency: 29.1%

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

REPORT NUMBER: P624555

CATALOG NUMBER: IFLD-S-SA2C-935-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°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	39.8	39.8	38.8	37.8
85°	87.9	87.9	87.9	87.9	87.9	85.8	84.8	83.8	82.7	80.7	79.7
82.5°	141.0	141.0	141.0	141.0	138.9	136.9	135.9	133.8	131.8	128.7	125.7
80°	197.2	197.2	197.2	197.2	194.1	192.1	189.0	186.9	183.9	179.8	175.7
77.5°	261.5	261.5	261.5	258.5	256.4	253.3	250.3	246.2	242.1	237.0	230.9
75°	334.0	334.0	334.0	330.0	326.9	323.8	318.7	313.6	307.5	300.3	292.2
72.5°	412.7	412.7	412.7	407.6	404.5	399.4	393.3	386.1	379.0	369.8	359.6
70°	497.5	497.5	497.5	491.4	486.3	481.2	473.0	464.8	454.6	444.4	432.1
67.5°	589.4	589.4	589.4	582.3	576.2	569.0	559.8	549.6	537.3	523.0	508.7
65°	696.7	696.7	692.6	686.5	679.3	669.1	657.9	643.6	628.3	609.9	590.5
62.5°	823.4	823.4	817.2	810.1	800.9	787.6	772.3	753.9	732.5	709.0	685.5
60°	970.5	970.5	963.3	954.1	940.9	924.5	904.1	880.6	854.0	824.4	795.8
57.5°	1140.1	1140.1	1130.9	1118.6	1102.3	1081.8	1056.3	1026.7	993.0	956.2	920.4
55°	1323.9	1323.9	1312.7	1298.4	1279.0	1254.5	1223.8	1189.1	1148.2	1106.3	1060.4
52.5°	1519.1	1519.1	1505.8	1489.4	1467.0	1438.3	1403.6	1362.8	1315.8	1266.7	1212.6
50°	1724.4	1724.4	1709.1	1690.7	1665.1	1631.4	1591.6	1544.6	1492.5	1435.3	1373.0
47.5°	1944.0	1944.0	1926.7	1905.2	1874.6	1835.7	1788.7	1734.6	1675.4	1611.0	1540.5
45°	2169.8	2169.8	2150.4	2125.9	2092.1	2048.2	1996.1	1944.0	1868.4	1793.9	1712.1
42.5°	2404.7	2404.7	2382.3	2354.7	2315.9	2267.9	2208.6	2141.2	2066.6	1982.8	1894.0
40°	2648.9	2648.9	2623.4	2591.7	2548.8	2493.6	2427.2	2351.6	2267.9	2174.9	2076.8
37.5°	2898.2	2898.2	2869.5	2834.8	2786.8	2725.5	2650.9	2567.2	2473.2	2370.0	2261.7
35°	3149.5	3149.5	3117.8	3080.0	3026.9	2959.4	2878.7	2785.8	2681.6	2569.2	2447.6
32.5°	3405.9	3405.9	3371.1	3328.2	3268.0	3193.4	3104.5	3003.4	2898.2	2767.4	2634.6
30°	3659.2	3659.2	3621.4	3574.4	3510.1	3428.3	3331.3	3219.9	3096.3	2962.5	2819.5
27.5°	3908.5	3898.3	3866.6	3816.5	3746.0	3659.2	3554.0	3433.4	3299.6	3152.5	2999.3
25°	4153.6	4142.4	4107.7	4052.5	3976.9	3881.9	3768.5	3639.8	3495.8	3340.5	3172.9
22.5°	4388.6	4376.3	4339.6	4280.3	4199.6	4096.4	3974.9	3837.0	3683.7	3517.2	3340.5
20°	4606.2	4592.9	4555.1	4492.8	4409.0	4299.7	4171.0	4022.9	3859.4	3683.7	3495.8
17.5°	4802.3	4789.0	4749.2	4684.9	4606.2	4484.6	4351.8	4195.5	4022.9	3837.0	3639.8
15°	4975.0	4960.7	4919.8	4855.5	4765.6	4651.1	4511.2	4351.8	4171.0	3974.9	3768.5
12.5°	5122.1	5107.8	5065.9	5001.5	4908.6	4794.2	4651.1	4484.6	4299.7	4096.4	3881.9
10°	5238.5	5224.2	5184.4	5123.1	5027.1	4908.6	4765.6	4606.2	4409.0	4199.6	3976.9
7.5°	5322.3	5309.0	5272.2	5211.0	5123.1	5001.5	4855.5	4684.9	4492.8	4280.3	4052.5
5°	5385.6	5370.3	5333.5	5272.2	5184.4	5065.9	4919.8	4749.2	4555.1	4339.6	4107.7
2.5°	5429.6	5411.2	5370.3	5309.0	5224.2	5107.8	4960.7	4789.0	4592.9	4376.3	4142.4
0°	5441.8	5429.6	5385.6	5322.3	5238.5	5122.1	4975.0	4802.3	4606.2	4388.6	4153.6

REPORT NUMBER: P624555

CATALOG NUMBER: IFLD-S-SA2C-935-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°	36.8	36.8	35.8	34.7	33.7	31.7	30.6	29.6	28.6	26.6	25.5
85°	77.6	75.6	73.6	71.5	68.4	66.4	63.3	61.3	58.2	55.2	52.1
82.5°	122.6	119.5	115.4	112.4	108.3	103.2	99.1	94.0	88.9	84.8	79.7
80°	171.6	166.5	161.4	156.3	150.2	144.0	137.9	131.8	124.6	117.5	110.3
77.5°	224.7	217.6	210.4	202.3	195.1	186.9	178.8	170.6	161.4	152.2	143.0
75°	284.0	274.8	264.6	254.4	245.2	233.9	222.7	211.5	199.2	188.0	175.7
72.5°	348.4	337.1	324.9	312.6	299.3	285.0	270.7	255.4	241.1	226.8	211.5
70°	417.8	404.5	389.2	373.9	357.5	340.2	322.8	304.4	286.0	267.6	249.3
67.5°	492.4	476.0	457.7	439.3	418.8	398.4	378.0	356.5	334.0	311.6	290.1
65°	572.1	551.6	530.2	506.7	483.2	459.7	435.2	409.6	384.1	357.5	334.0
62.5°	660.9	635.4	607.8	579.2	552.7	524.1	497.5	465.8	435.2	405.6	375.9
60°	764.1	730.4	696.7	660.9	627.2	590.5	557.8	523.0	488.3	454.6	419.9
57.5°	879.6	836.7	795.8	752.9	707.9	667.1	625.2	583.3	544.5	504.6	466.9
55°	1010.3	958.2	907.1	854.0	801.9	750.8	697.7	650.7	602.7	557.8	513.8
52.5°	1153.3	1094.1	1030.7	970.5	904.1	840.7	781.5	722.2	666.1	611.9	561.9
50°	1306.6	1237.1	1164.6	1091.0	1015.4	940.9	869.3	799.9	734.5	671.2	611.9
47.5°	1465.9	1387.3	1304.5	1220.8	1140.1	1049.1	963.3	884.7	806.0	734.5	666.1
45°	1629.4	1540.5	1449.6	1354.6	1259.6	1161.5	1066.5	970.5	884.7	799.9	722.2
42.5°	1797.9	1697.8	1596.7	1491.5	1386.3	1279.0	1171.7	1066.5	963.3	869.3	781.5
40°	1971.6	1861.3	1745.8	1631.4	1519.1	1396.5	1279.0	1161.5	1049.1	940.9	840.7
37.5°	2145.3	2024.7	1900.1	1771.4	1642.7	1519.1	1386.3	1259.6	1140.1	1015.4	904.1
35°	2320.0	2187.1	2052.3	1912.4	1771.4	1631.4	1491.5	1354.6	1220.8	1091.0	970.5
32.5°	2495.7	2350.6	2201.5	2052.3	1900.1	1745.8	1596.7	1449.6	1304.5	1164.6	1030.7
30°	2668.3	2511.0	2350.6	2187.1	2024.7	1861.3	1697.8	1540.5	1387.3	1237.1	1094.1
27.5°	2836.9	2668.3	2495.7	2320.0	2145.3	1971.6	1797.9	1629.4	1465.9	1306.6	1153.3
25°	2999.3	2819.5	2634.6	2447.6	2261.7	2076.8	1894.0	1712.1	1540.5	1373.0	1212.6
22.5°	3152.5	2962.5	2767.4	2569.2	2370.0	2174.9	1982.8	1793.9	1611.0	1435.3	1266.7
20°	3299.6	3096.3	2898.2	2681.6	2473.2	2267.9	2066.6	1868.4	1675.4	1492.5	1315.8
17.5°	3433.4	3219.9	3003.4	2785.8	2567.2	2351.6	2141.2	1944.0	1734.6	1544.6	1362.8
15°	3554.0	3331.3	3104.5	2878.7	2650.9	2427.2	2208.6	1996.1	1788.7	1591.6	1403.6
12.5°	3659.2	3428.3	3193.4	2959.4	2725.5	2493.6	2267.9	2048.2	1835.7	1631.4	1438.3
10°	3746.0	3510.1	3268.0	3026.9	2786.8	2548.8	2315.9	2092.1	1874.6	1665.1	1467.0
7.5°	3816.5	3574.4	3328.2	3080.0	2834.8	2591.7	2354.7	2125.9	1905.2	1690.7	1489.4
5°	3866.6	3621.4	3371.1	3117.8	2869.5	2623.4	2382.3	2150.4	1926.7	1709.1	1505.8
2.5°	3898.3	3659.2	3405.9	3149.5	2898.2	2648.9	2404.7	2169.8	1944.0	1724.4	1519.1
0°	3908.5	3659.2	3405.9	3149.5	2898.2	2648.9	2404.7	2169.8	1944.0	1724.4	1519.1

REPORT NUMBER: P624555

CATALOG NUMBER: IFLD-S-SA2C-935-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°	24.5	22.5	20.4	19.4	17.4	16.3	14.3	12.3	11.2	9.2	7.2
85°	49.0	44.9	41.9	38.8	35.8	31.7	28.6	25.5	21.5	18.4	14.3
82.5°	74.6	69.5	64.4	59.3	54.1	49.0	42.9	37.8	32.7	27.6	21.5
80°	103.2	95.0	87.9	80.7	73.6	66.4	58.2	51.1	42.9	35.8	28.6
77.5°	132.8	123.6	113.4	103.2	93.0	83.8	73.6	64.4	55.2	44.9	35.8
75°	164.5	152.2	141.0	127.7	115.4	102.2	89.9	77.6	66.4	55.2	42.9
72.5°	197.2	181.8	166.5	152.2	136.9	121.6	107.3	91.9	77.6	64.4	51.1
70°	230.9	212.5	194.1	176.7	159.4	141.0	124.6	107.3	89.9	73.6	58.2
67.5°	266.6	245.2	223.7	201.2	181.8	161.4	141.0	121.6	102.2	83.8	66.4
65°	305.4	279.9	253.3	229.8	204.3	181.8	159.4	136.9	115.4	93.0	73.6
62.5°	345.3	315.7	286.0	256.4	229.8	201.2	176.7	152.2	127.7	103.2	80.7
60°	386.1	352.4	318.7	286.0	253.3	223.7	194.1	166.5	141.0	113.4	87.9
57.5°	428.0	390.2	352.4	315.7	279.9	245.2	212.5	181.8	152.2	123.6	95.0
55°	470.9	428.0	386.1	345.3	305.4	266.6	230.9	197.2	164.5	132.8	103.2
52.5°	513.8	466.9	419.9	375.9	334.0	290.1	249.3	211.5	175.7	143.0	110.3
50°	557.8	504.6	454.6	405.6	357.5	311.6	267.6	226.8	188.0	152.2	117.5
47.5°	602.7	544.5	488.3	435.2	384.1	334.0	286.0	241.1	199.2	161.4	124.6
45°	650.7	583.3	523.0	465.8	409.6	356.5	304.4	255.4	211.5	170.6	131.8
42.5°	697.7	625.2	557.8	497.5	435.2	378.0	322.8	270.7	222.7	178.8	137.9
40°	750.8	667.1	590.5	524.1	459.7	398.4	340.2	285.0	233.9	186.9	144.0
37.5°	801.9	707.9	627.2	552.7	483.2	418.8	357.5	299.3	245.2	195.1	150.2
35°	854.0	752.9	660.9	579.2	506.7	439.3	373.9	312.6	254.4	202.3	156.3
32.5°	907.1	795.8	696.7	607.8	530.2	457.7	389.2	324.9	264.6	210.4	161.4
30°	958.2	836.7	730.4	635.4	551.6	476.0	404.5	337.1	274.8	217.6	166.5
27.5°	1010.3	879.6	764.1	660.9	572.1	492.4	417.8	348.4	284.0	224.7	171.6
25°	1060.4	920.4	795.8	685.5	590.5	508.7	432.1	359.6	292.2	230.9	175.7
22.5°	1106.3	956.2	824.4	709.0	609.9	523.0	444.4	369.8	300.3	237.0	179.8
20°	1148.2	993.0	854.0	732.5	628.3	537.3	454.6	379.0	307.5	242.1	183.9
17.5°	1189.1	1026.7	880.6	753.9	643.6	549.6	464.8	386.1	313.6	246.2	186.9
15°	1223.8	1056.3	904.1	772.3	657.9	559.8	473.0	393.3	318.7	250.3	189.0
12.5°	1254.5	1081.8	924.5	787.6	669.1	569.0	481.2	399.4	323.8	253.3	192.1
10°	1279.0	1102.3	940.9	800.9	679.3	576.2	486.3	404.5	326.9	256.4	194.1
7.5°	1298.4	1118.6	954.1	810.1	686.5	582.3	491.4	407.6	330.0	258.5	197.2
5°	1312.7	1130.9	963.3	817.2	692.6	589.4	497.5	412.7	334.0	261.5	197.2
2.5°	1323.9	1140.1	970.5	823.4	696.7	589.4	497.5	412.7	334.0	261.5	197.2
0°	1323.9	1140.1	970.5	823.4	696.7	589.4	497.5	412.7	334.0	261.5	197.2

REPORT NUMBER: P624555

CATALOG NUMBER: IFLD-S-SA2C-935-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.1	4.1	2.0	0.0
85°	11.2	7.2	4.1	0.0
82.5°	16.3	11.2	5.1	0.0
80°	21.5	14.3	7.2	0.0
77.5°	27.6	18.4	9.2	0.0
75°	32.7	21.5	11.2	0.0
72.5°	37.8	25.5	12.3	0.0
70°	42.9	28.6	14.3	0.0
67.5°	49.0	31.7	16.3	0.0
65°	54.1	35.8	17.4	0.0
62.5°	59.3	38.8	19.4	0.0
60°	64.4	41.9	20.4	0.0
57.5°	69.5	44.9	22.5	0.0
55°	74.6	49.0	24.5	0.0
52.5°	79.7	52.1	25.5	0.0
50°	84.8	55.2	26.6	0.0
47.5°	88.9	58.2	28.6	0.0
45°	94.0	61.3	29.6	0.0
42.5°	99.1	63.3	30.6	0.0
40°	103.2	66.4	31.7	0.0
37.5°	108.3	68.4	33.7	0.0
35°	112.4	71.5	34.7	0.0
32.5°	115.4	73.6	35.8	0.0
30°	119.5	75.6	36.8	0.0
27.5°	122.6	77.6	36.8	0.0
25°	125.7	79.7	37.8	0.0
22.5°	128.7	80.7	38.8	0.0
20°	131.8	82.7	39.8	0.0
17.5°	133.8	83.8	39.8	0.0
15°	135.9	84.8	41.9	0.0
12.5°	136.9	85.8	41.9	0.0
10°	138.9	87.9	41.9	0.0
7.5°	141.0	87.9	41.9	0.0
5°	141.0	87.9	41.9	0.0
2.5°	141.0	87.9	41.9	0.0
0°	141.0	87.9	41.9	0.0

(END OF REPORT)