

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: P624589

Luminaire Tested: **IFLD-S-SA3C-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624589
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

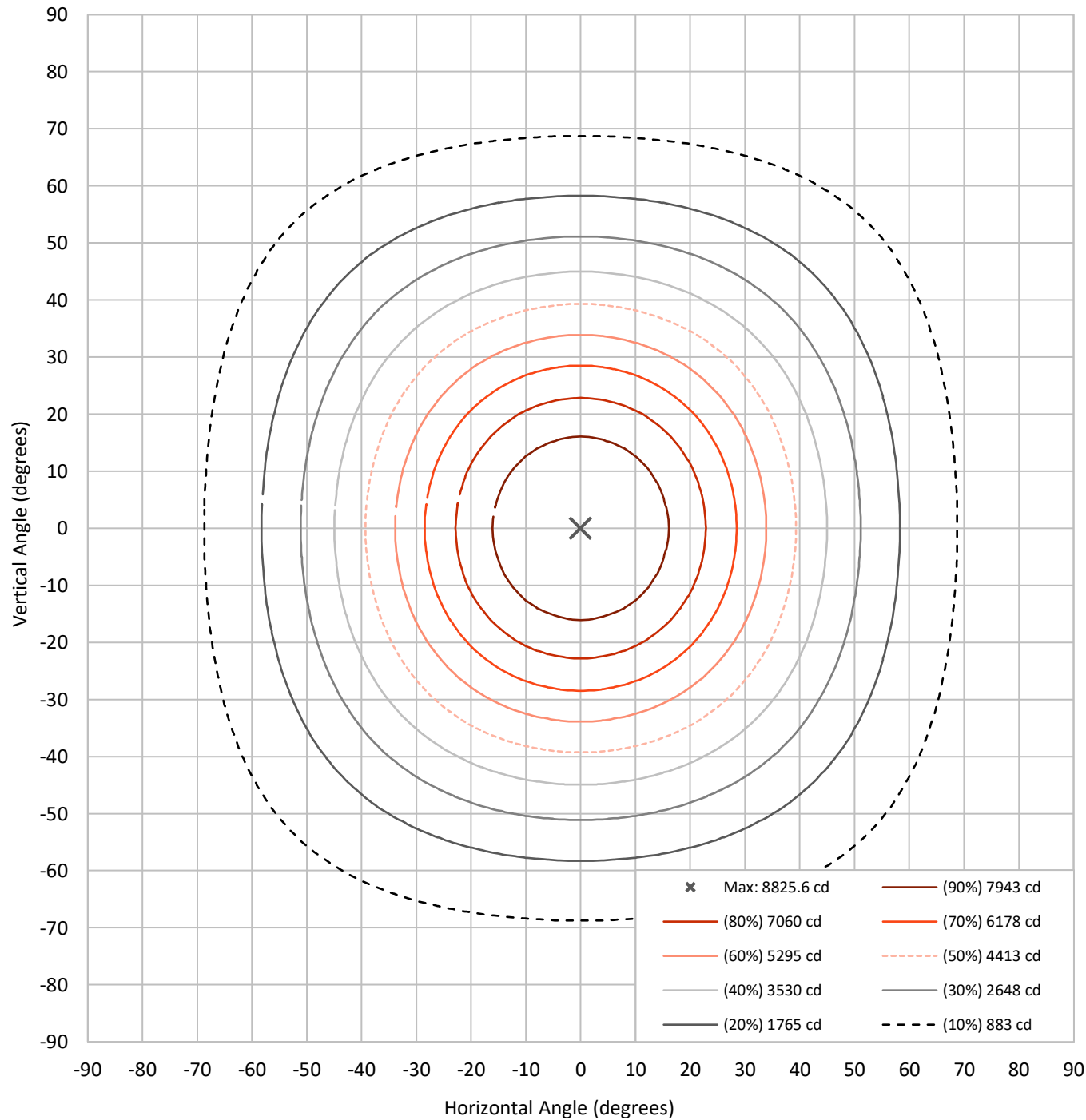
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15890.6 lumens	Max Intensity:	8825.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	98.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6875.7 lumens	Field Lumens:	11258.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	160.8		
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		





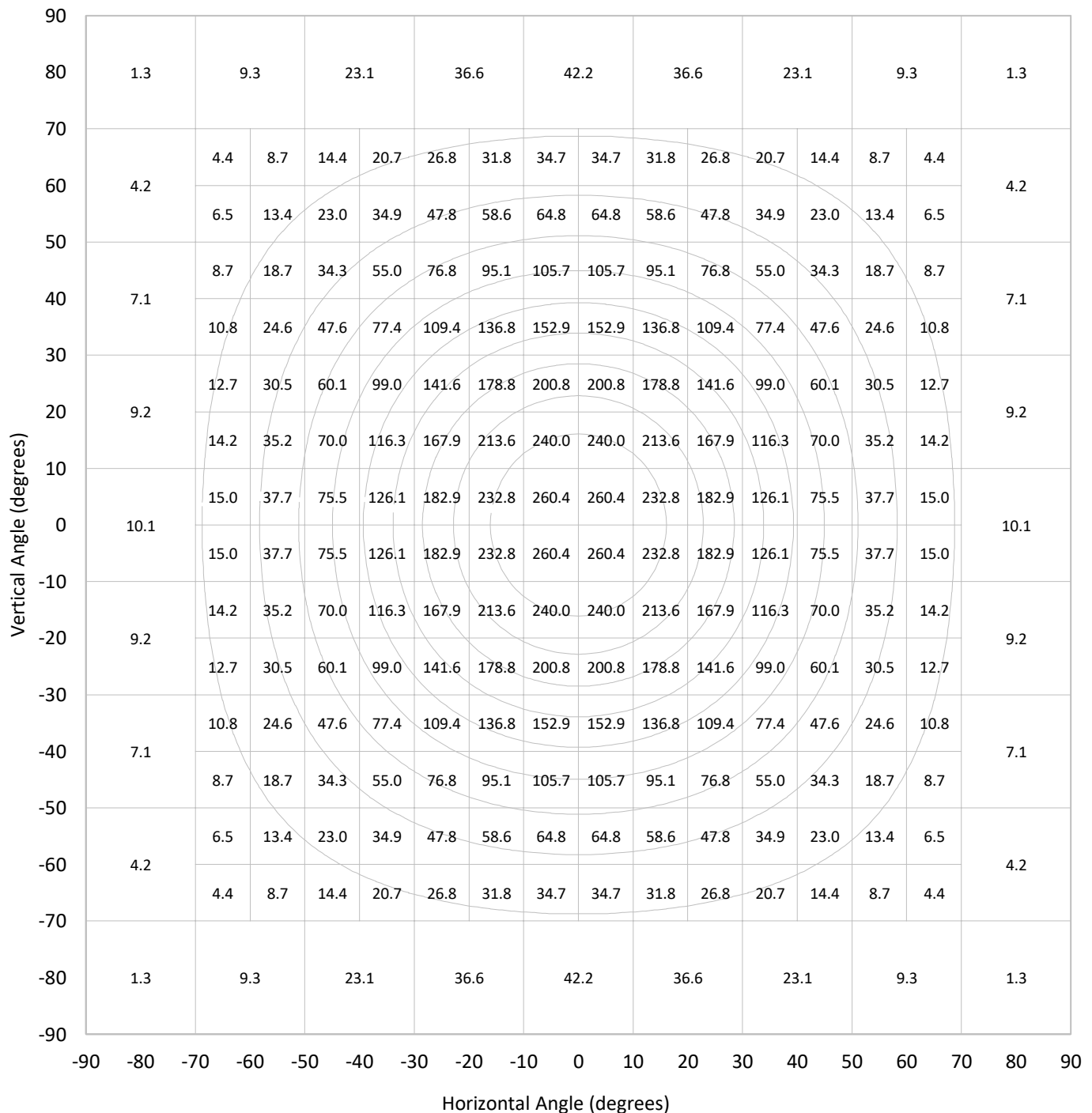
REPORT NUMBER: P624589
CATALOG NUMBER: IFLD-S-SA3C-940-U-77

Iso-Candela Plot



REPORT NUMBER: P624589
CATALOG NUMBER: IFLD-S-SA3C-940-U-77

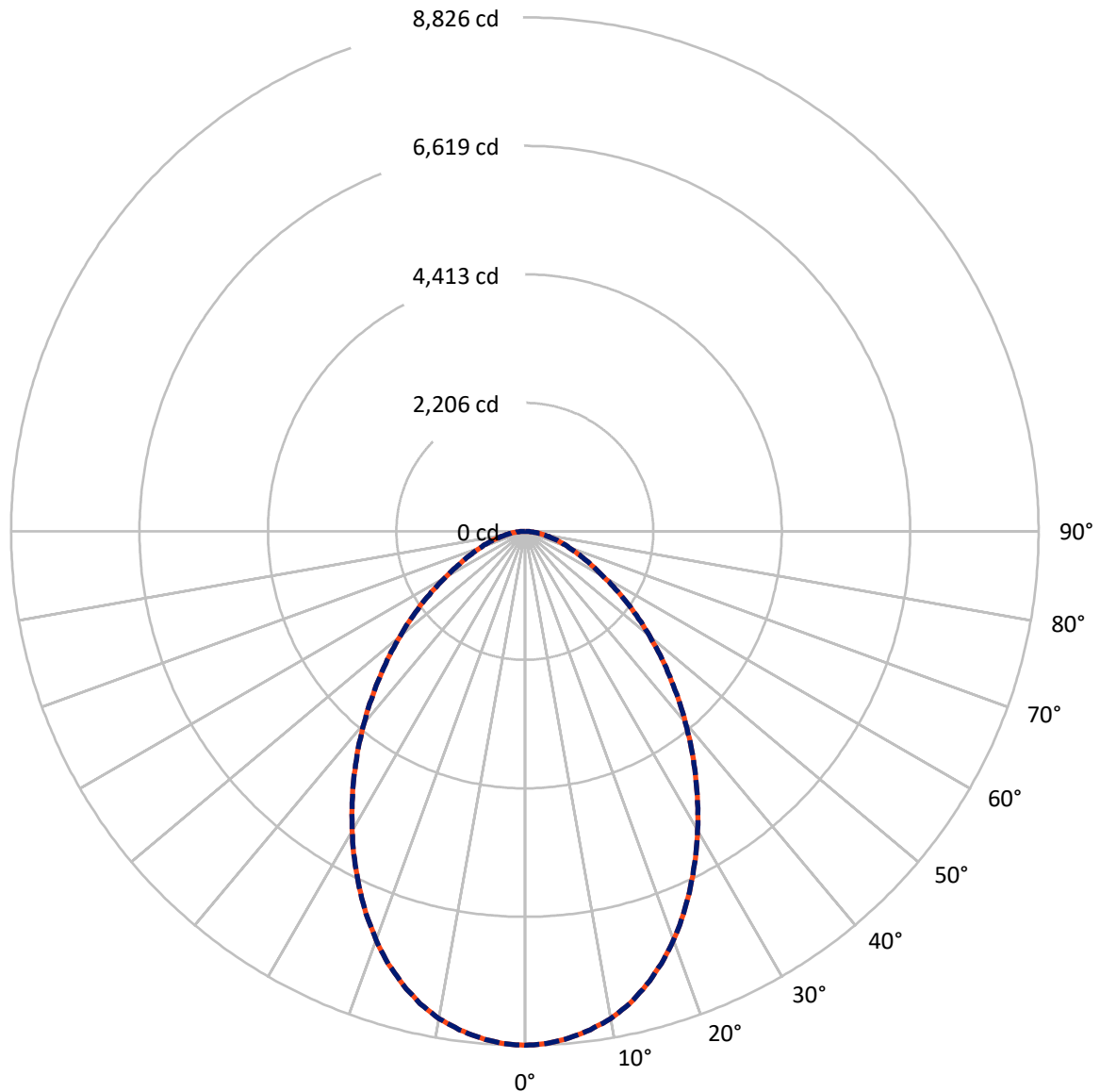
Lumen Table



REPORT NUMBER: P624589

CATALOG NUMBER: IFLD-S-SA3C-940-U-77

Luminous Intensity Polar Plot



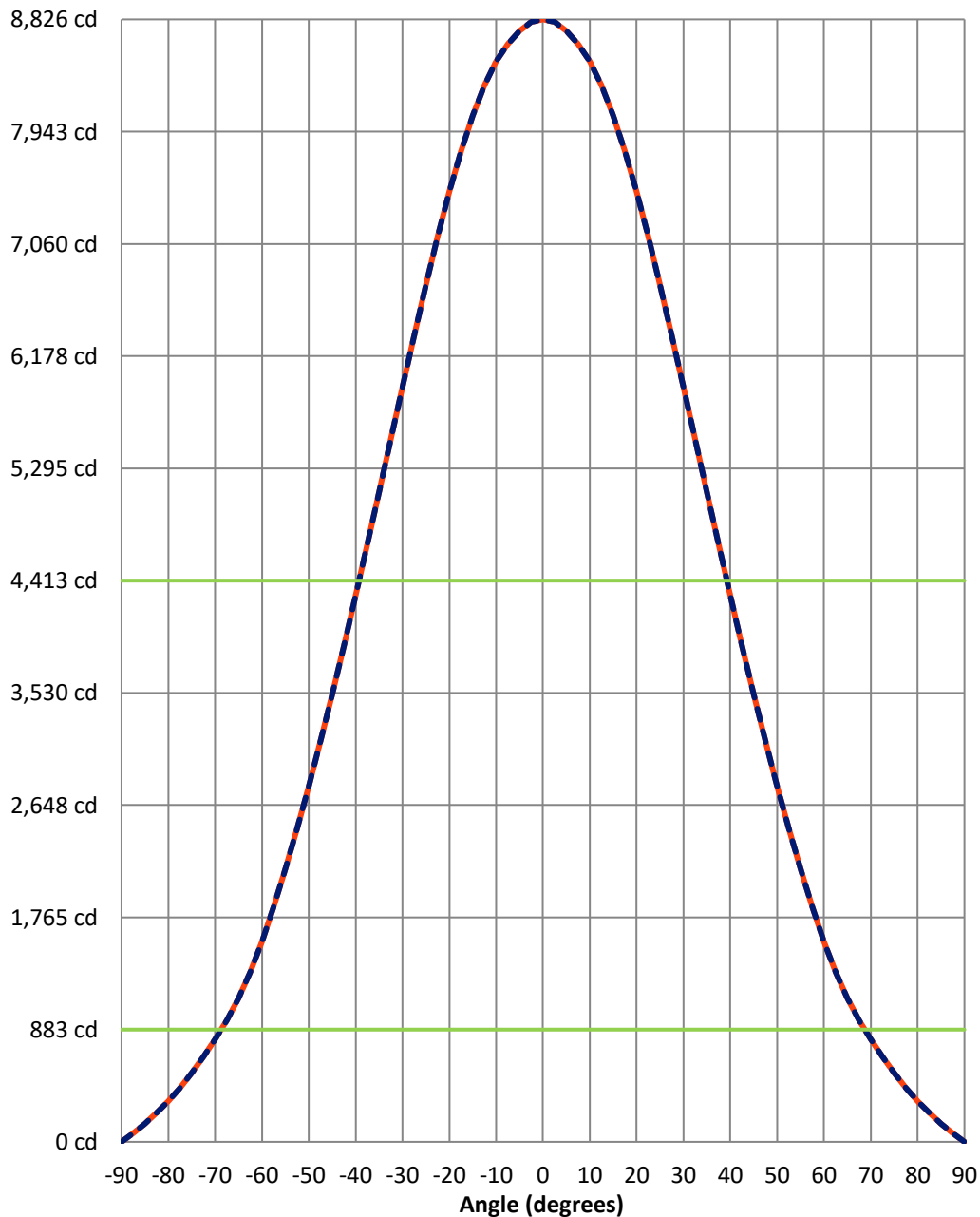
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624589

CATALOG NUMBER: IFLD-S-SA3C-940-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6875.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 11258.7
Efficiency: 70.9%

Spill:

Lumens: 4631.9
Efficiency: 29.1%

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

REPORT NUMBER: P624589

CATALOG NUMBER: IFLD-S-SA3C-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°	67.9	67.9	67.9	67.9	67.9	67.9	67.9	64.6	64.6	63.0	61.3
85°	142.5	142.5	142.5	142.5	142.5	139.2	137.5	135.9	134.2	130.9	129.2
82.5°	228.6	228.6	228.6	228.6	225.3	222.0	220.3	217.0	213.7	208.8	203.8
80°	319.8	319.8	319.8	319.8	314.8	311.5	306.5	303.2	298.2	291.6	285.0
77.5°	424.1	424.1	424.1	419.2	415.8	410.9	405.9	399.3	392.7	384.4	374.4
75°	541.8	541.8	541.8	535.1	530.2	525.2	516.9	508.6	498.7	487.1	473.8
72.5°	669.3	669.3	669.3	661.0	656.1	647.8	637.9	626.3	614.7	599.7	583.2
70°	806.8	806.8	806.8	796.9	788.6	780.3	767.1	753.8	737.3	720.7	700.8
67.5°	956.0	956.0	956.0	944.4	934.4	922.8	907.9	891.3	871.5	848.3	825.1
65°	1129.9	1129.9	1123.3	1113.3	1101.7	1085.2	1067.0	1043.8	1018.9	989.1	957.6
62.5°	1335.4	1335.4	1325.4	1313.8	1298.9	1277.4	1252.5	1222.7	1187.9	1149.8	1111.7
60°	1573.9	1573.9	1562.3	1547.4	1525.9	1499.4	1466.2	1428.1	1385.1	1337.0	1290.6
57.5°	1848.9	1848.9	1834.0	1814.2	1787.6	1754.5	1713.1	1665.0	1610.4	1550.7	1492.7
55°	2147.2	2147.2	2128.9	2105.7	2074.3	2034.5	1984.8	1928.5	1862.2	1794.3	1719.7
52.5°	2463.6	2463.6	2442.1	2415.6	2379.1	2332.7	2276.4	2210.1	2133.9	2054.4	1966.6
50°	2796.6	2796.6	2771.8	2741.9	2700.5	2645.8	2581.2	2505.0	2420.5	2327.8	2226.7
47.5°	3152.8	3152.8	3124.7	3089.9	3040.2	2977.2	2901.0	2813.2	2717.1	2612.7	2498.4
45°	3519.0	3519.0	3487.5	3447.7	3393.0	3321.8	3237.3	3152.8	3030.2	2909.3	2776.7
42.5°	3900.0	3900.0	3863.6	3818.8	3755.9	3678.0	3581.9	3472.6	3351.6	3215.8	3071.6
40°	4296.0	4296.0	4254.6	4203.2	4133.6	4044.2	3936.5	3813.9	3678.0	3527.2	3368.2
37.5°	4700.2	4700.2	4653.8	4597.5	4519.6	4420.2	4299.3	4163.4	4011.0	3843.7	3668.1
35°	5107.8	5107.8	5056.4	4995.1	4909.0	4799.6	4668.8	4518.0	4349.0	4166.8	3969.6
32.5°	5523.6	5523.6	5467.3	5397.7	5300.0	5179.0	5034.9	4870.9	4700.2	4488.2	4272.8
30°	5934.5	5934.5	5873.2	5797.0	5692.6	5560.1	5402.7	5222.1	5021.6	4804.6	4572.7
27.5°	6338.8	6322.2	6270.8	6189.7	6075.3	5934.5	5763.9	5568.4	5351.3	5112.8	4864.3
25°	6736.4	6718.2	6661.8	6572.4	6449.8	6295.7	6111.8	5903.0	5669.4	5417.6	5145.9
22.5°	7117.4	7097.6	7037.9	6941.8	6810.9	6643.6	6446.5	6222.8	5974.3	5704.2	5417.6
20°	7470.3	7448.8	7387.5	7286.4	7150.6	6973.3	6764.6	6524.3	6259.2	5974.3	5669.4
17.5°	7788.4	7766.9	7702.3	7597.9	7470.3	7273.2	7057.8	6804.3	6524.3	6222.8	5903.0
15°	8068.4	8045.2	7979.0	7874.6	7728.8	7543.2	7316.3	7057.8	6764.6	6446.5	6111.8
12.5°	8307.0	8283.8	8215.9	8111.5	7960.7	7775.2	7543.2	7273.2	6973.3	6643.6	6295.7
10°	8495.9	8472.7	8408.1	8308.7	8152.9	7960.7	7728.8	7470.3	7150.6	6810.9	6449.8
7.5°	8631.7	8610.2	8550.5	8451.1	8308.7	8111.5	7874.6	7597.9	7286.4	6941.8	6572.4
5°	8734.4	8709.6	8650.0	8550.5	8408.1	8215.9	7979.0	7702.3	7387.5	7037.9	6661.8
2.5°	8805.7	8775.9	8709.6	8610.2	8472.7	8283.8	8045.2	7766.9	7448.8	7097.6	6718.2
0°	8825.6	8805.7	8734.4	8631.7	8495.9	8307.0	8068.4	7788.4	7470.3	7117.4	6736.4

REPORT NUMBER: P624589

CATALOG NUMBER: IFLD-S-SA3C-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°	59.6	59.6	58.0	56.3	54.7	51.4	49.7	48.0	46.4	43.1	41.4
85°	125.9	122.6	119.3	116.0	111.0	107.7	102.7	99.4	94.4	89.5	84.5
82.5°	198.8	193.8	187.2	182.2	175.6	167.3	160.7	152.4	144.1	137.5	129.2
80°	278.3	270.1	261.8	253.5	243.5	233.6	223.7	213.7	202.1	190.5	178.9
77.5°	364.5	352.9	341.3	328.0	316.4	303.2	289.9	276.7	261.8	246.9	231.9
75°	460.6	445.7	429.1	412.5	397.6	379.4	361.2	342.9	323.1	304.8	285.0
72.5°	565.0	546.7	526.9	507.0	485.4	462.2	439.0	414.2	391.0	367.8	342.9
70°	677.6	656.1	631.2	606.4	579.9	551.7	523.5	493.7	463.9	434.1	404.2
67.5°	798.6	772.1	742.2	712.4	679.3	646.1	613.0	578.2	541.8	505.3	470.5
65°	927.8	894.7	859.9	821.8	783.6	745.5	705.8	664.4	622.9	579.9	541.8
62.5°	1071.9	1030.5	985.8	939.4	896.3	849.9	806.8	755.5	705.8	657.7	609.7
60°	1239.3	1184.6	1129.9	1071.9	1017.3	957.6	904.6	848.3	791.9	737.3	680.9
57.5°	1426.5	1356.9	1290.6	1221.0	1148.1	1081.9	1013.9	946.0	883.1	818.4	757.1
55°	1638.5	1554.0	1471.2	1385.1	1300.6	1217.7	1131.6	1055.4	977.5	904.6	833.4
52.5°	1870.5	1774.4	1671.7	1573.9	1466.2	1363.5	1267.4	1171.3	1080.2	992.4	911.2
50°	2119.0	2006.3	1888.7	1769.4	1646.8	1525.9	1409.9	1297.2	1191.2	1088.5	992.4
47.5°	2377.5	2249.9	2115.7	1979.8	1848.9	1701.5	1562.3	1434.8	1307.2	1191.2	1080.2
45°	2642.5	2498.4	2350.9	2196.9	2042.8	1883.7	1729.7	1573.9	1434.8	1297.2	1171.3
42.5°	2915.9	2753.5	2589.5	2418.9	2248.2	2074.3	1900.3	1729.7	1562.3	1409.9	1267.4
40°	3197.6	3018.6	2831.4	2645.8	2463.6	2264.8	2074.3	1883.7	1701.5	1525.9	1363.5
37.5°	3479.2	3283.7	3081.6	2872.8	2664.1	2463.6	2248.2	2042.8	1848.9	1646.8	1466.2
35°	3762.5	3547.1	3328.4	3101.5	2872.8	2645.8	2418.9	2196.9	1979.8	1769.4	1573.9
32.5°	4047.5	3812.2	3570.3	3328.4	3081.6	2831.4	2589.5	2350.9	2115.7	1888.7	1671.7
30°	4327.5	4072.3	3812.2	3547.1	3283.7	3018.6	2753.5	2498.4	2249.9	2006.3	1774.4
27.5°	4600.8	4327.5	4047.5	3762.5	3479.2	3197.6	2915.9	2642.5	2377.5	2119.0	1870.5
25°	4864.3	4572.7	4272.8	3969.6	3668.1	3368.2	3071.6	2776.7	2498.4	2226.7	1966.6
22.5°	5112.8	4804.6	4488.2	4166.8	3843.7	3527.2	3215.8	2909.3	2612.7	2327.8	2054.4
20°	5351.3	5021.6	4700.2	4349.0	4011.0	3678.0	3351.6	3030.2	2717.1	2420.5	2133.9
17.5°	5568.4	5222.1	4870.9	4518.0	4163.4	3813.9	3472.6	3152.8	2813.2	2505.0	2210.1
15°	5763.9	5402.7	5034.9	4668.8	4299.3	3936.5	3581.9	3237.3	2901.0	2581.2	2276.4
12.5°	5934.5	5560.1	5179.0	4799.6	4420.2	4044.2	3678.0	3321.8	2977.2	2645.8	2332.7
10°	6075.3	5692.6	5300.0	4909.0	4519.6	4133.6	3755.9	3393.0	3040.2	2700.5	2379.1
7.5°	6189.7	5797.0	5397.7	4995.1	4597.5	4203.2	3818.8	3447.7	3089.9	2741.9	2415.6
5°	6270.8	5873.2	5467.3	5056.4	4653.8	4254.6	3863.6	3487.5	3124.7	2771.8	2442.1
2.5°	6322.2	5934.5	5523.6	5107.8	4700.2	4296.0	3900.0	3519.0	3152.8	2796.6	2463.6
0°	6338.8	5934.5	5523.6	5107.8	4700.2	4296.0	3900.0	3519.0	3152.8	2796.6	2463.6

REPORT NUMBER: P624589

CATALOG NUMBER: IFLD-S-SA3C-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°	39.8	36.4	33.1	31.5	28.2	26.5	23.2	19.9	18.2	14.9	11.6
85°	79.5	72.9	67.9	63.0	58.0	51.4	46.4	41.4	34.8	29.8	23.2
82.5°	120.9	112.7	104.4	96.1	87.8	79.5	69.6	61.3	53.0	44.7	34.8
80°	167.3	154.1	142.5	130.9	119.3	107.7	94.4	82.8	69.6	58.0	46.4
77.5°	215.4	200.5	183.9	167.3	150.8	135.9	119.3	104.4	89.5	72.9	58.0
75°	266.7	246.9	228.6	207.1	187.2	165.7	145.8	125.9	107.7	89.5	69.6
72.5°	319.8	294.9	270.1	246.9	222.0	197.2	174.0	149.1	125.9	104.4	82.8
70°	374.4	344.6	314.8	286.6	258.5	228.6	202.1	174.0	145.8	119.3	94.4
67.5°	432.4	397.6	362.8	326.4	294.9	261.8	228.6	197.2	165.7	135.9	107.7
65°	495.4	454.0	410.9	372.8	331.4	294.9	258.5	222.0	187.2	150.8	119.3
62.5°	560.0	511.9	463.9	415.8	372.8	326.4	286.6	246.9	207.1	167.3	130.9
60°	626.3	571.6	516.9	463.9	410.9	362.8	314.8	270.1	228.6	183.9	142.5
57.5°	694.2	632.9	571.6	511.9	454.0	397.6	344.6	294.9	246.9	200.5	154.1
55°	763.8	694.2	626.3	560.0	495.4	432.4	374.4	319.8	266.7	215.4	167.3
52.5°	833.4	757.1	680.9	609.7	541.8	470.5	404.2	342.9	285.0	231.9	178.9
50°	904.6	818.4	737.3	657.7	579.9	505.3	434.1	367.8	304.8	246.9	190.5
47.5°	977.5	883.1	791.9	705.8	622.9	541.8	463.9	391.0	323.1	261.8	202.1
45°	1055.4	946.0	848.3	755.5	664.4	578.2	493.7	414.2	342.9	276.7	213.7
42.5°	1131.6	1013.9	904.6	806.8	705.8	613.0	523.5	439.0	361.2	289.9	223.7
40°	1217.7	1081.9	957.6	849.9	745.5	646.1	551.7	462.2	379.4	303.2	233.6
37.5°	1300.6	1148.1	1017.3	896.3	783.6	679.3	579.9	485.4	397.6	316.4	243.5
35°	1385.1	1221.0	1071.9	939.4	821.8	712.4	606.4	507.0	412.5	328.0	253.5
32.5°	1471.2	1290.6	1129.9	985.8	859.9	742.2	631.2	526.9	429.1	341.3	261.8
30°	1554.0	1356.9	1184.6	1030.5	894.7	772.1	656.1	546.7	445.7	352.9	270.1
27.5°	1638.5	1426.5	1239.3	1071.9	927.8	798.6	677.6	565.0	460.6	364.5	278.3
25°	1719.7	1492.7	1290.6	1111.7	957.6	825.1	700.8	583.2	473.8	374.4	285.0
22.5°	1794.3	1550.7	1337.0	1149.8	989.1	848.3	720.7	599.7	487.1	384.4	291.6
20°	1862.2	1610.4	1385.1	1187.9	1018.9	871.5	737.3	614.7	498.7	392.7	298.2
17.5°	1928.5	1665.0	1428.1	1222.7	1043.8	891.3	753.8	626.3	508.6	399.3	303.2
15°	1984.8	1713.1	1466.2	1252.5	1067.0	907.9	767.1	637.9	516.9	405.9	306.5
12.5°	2034.5	1754.5	1499.4	1277.4	1085.2	922.8	780.3	647.8	525.2	410.9	311.5
10°	2074.3	1787.6	1525.9	1298.9	1101.7	934.4	788.6	656.1	530.2	415.8	314.8
7.5°	2105.7	1814.2	1547.4	1313.8	1113.3	944.4	796.9	661.0	535.1	419.2	319.8
5°	2128.9	1834.0	1562.3	1325.4	1123.3	956.0	806.8	669.3	541.8	424.1	319.8
2.5°	2147.2	1848.9	1573.9	1335.4	1129.9	956.0	806.8	669.3	541.8	424.1	319.8
0°	2147.2	1848.9	1573.9	1335.4	1129.9	956.0	806.8	669.3	541.8	424.1	319.8

REPORT NUMBER: P624589

CATALOG NUMBER: IFLD-S-SA3C-940-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.3	6.6	3.3	0.0
85°	18.2	11.6	6.6	0.0
82.5°	26.5	18.2	8.3	0.0
80°	34.8	23.2	11.6	0.0
77.5°	44.7	29.8	14.9	0.0
75°	53.0	34.8	18.2	0.0
72.5°	61.3	41.4	19.9	0.0
70°	69.6	46.4	23.2	0.0
67.5°	79.5	51.4	26.5	0.0
65°	87.8	58.0	28.2	0.0
62.5°	96.1	63.0	31.5	0.0
60°	104.4	67.9	33.1	0.0
57.5°	112.7	72.9	36.4	0.0
55°	120.9	79.5	39.8	0.0
52.5°	129.2	84.5	41.4	0.0
50°	137.5	89.5	43.1	0.0
47.5°	144.1	94.4	46.4	0.0
45°	152.4	99.4	48.0	0.0
42.5°	160.7	102.7	49.7	0.0
40°	167.3	107.7	51.4	0.0
37.5°	175.6	111.0	54.7	0.0
35°	182.2	116.0	56.3	0.0
32.5°	187.2	119.3	58.0	0.0
30°	193.8	122.6	59.6	0.0
27.5°	198.8	125.9	59.6	0.0
25°	203.8	129.2	61.3	0.0
22.5°	208.8	130.9	63.0	0.0
20°	213.7	134.2	64.6	0.0
17.5°	217.0	135.9	64.6	0.0
15°	220.3	137.5	67.9	0.0
12.5°	222.0	139.2	67.9	0.0
10°	225.3	142.5	67.9	0.0
7.5°	228.6	142.5	67.9	0.0
5°	228.6	142.5	67.9	0.0
2.5°	228.6	142.5	67.9	0.0
0°	228.6	142.5	67.9	0.0

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