

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: P624551

Luminaire Tested: **IFLD-L-SA8C-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624551
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

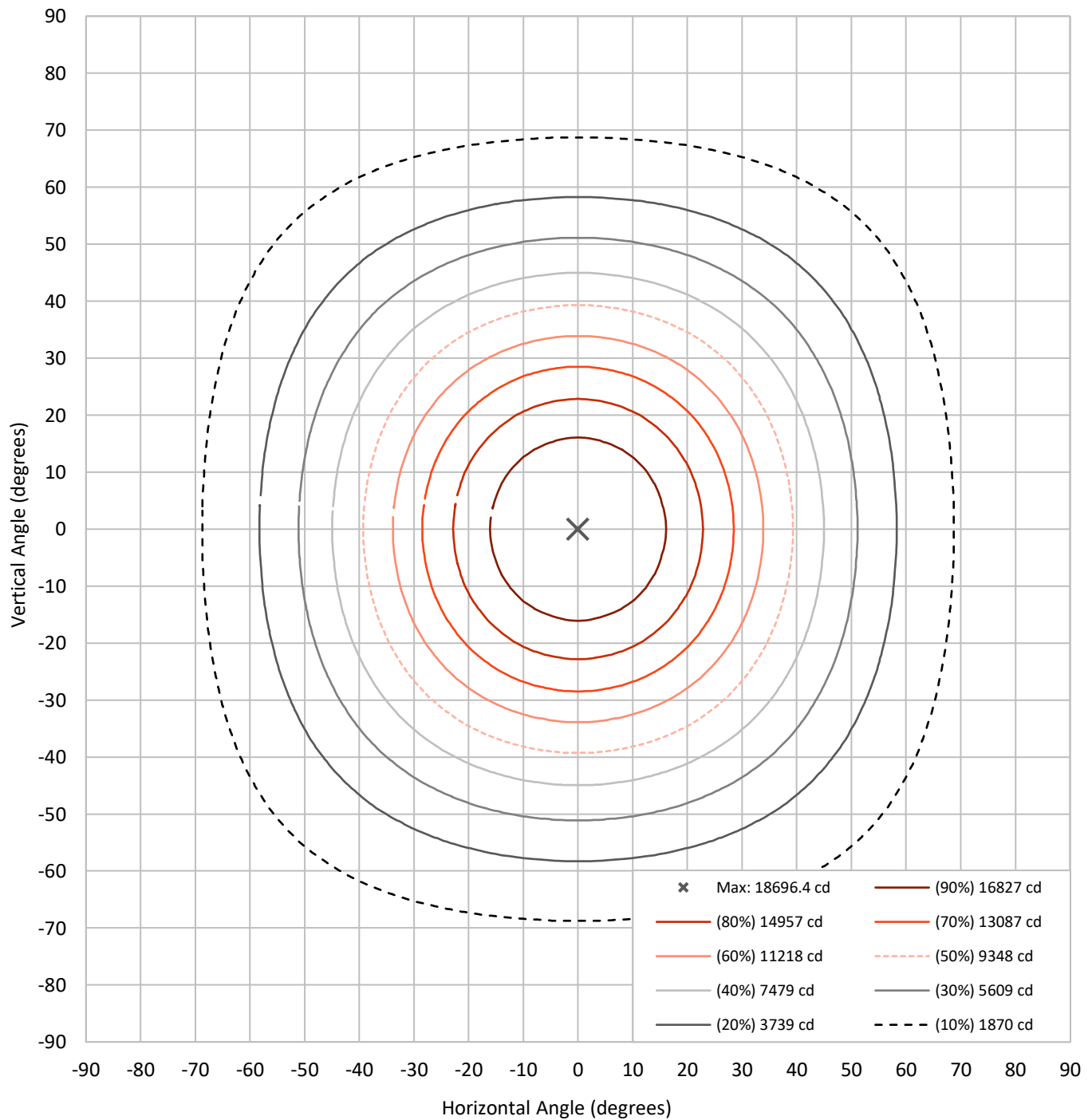
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33663.3 lumens	Max Intensity:	18696.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	80.1 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:	14565.8 lumens	Field Lumens:	23850.9 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		



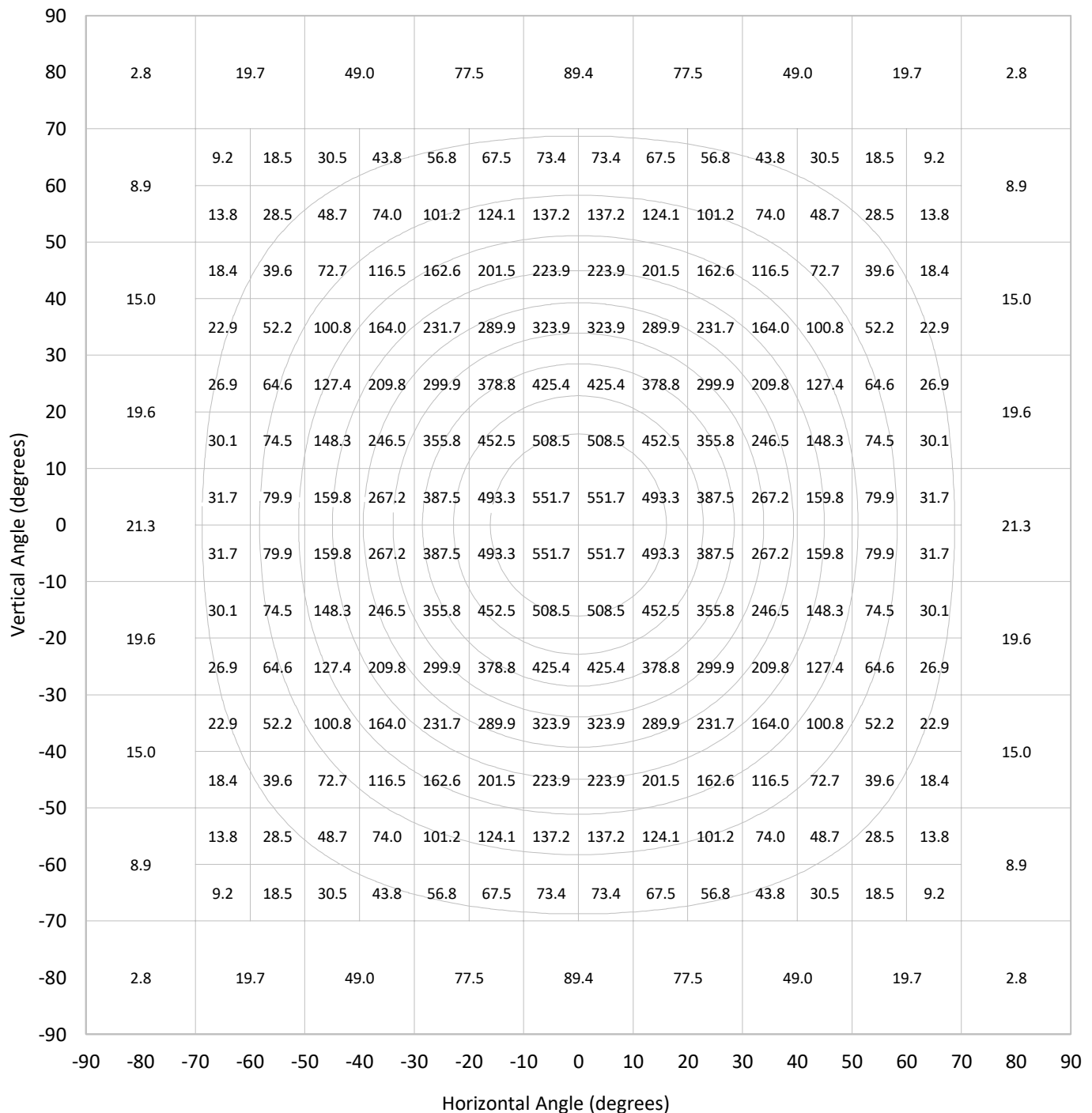
REPORT NUMBER: P624551
CATALOG NUMBER: IFLD-L-SA8C-930-U-77

Iso-Candela Plot



REPORT NUMBER: P624551
CATALOG NUMBER: IFLD-L-SA8C-930-U-77

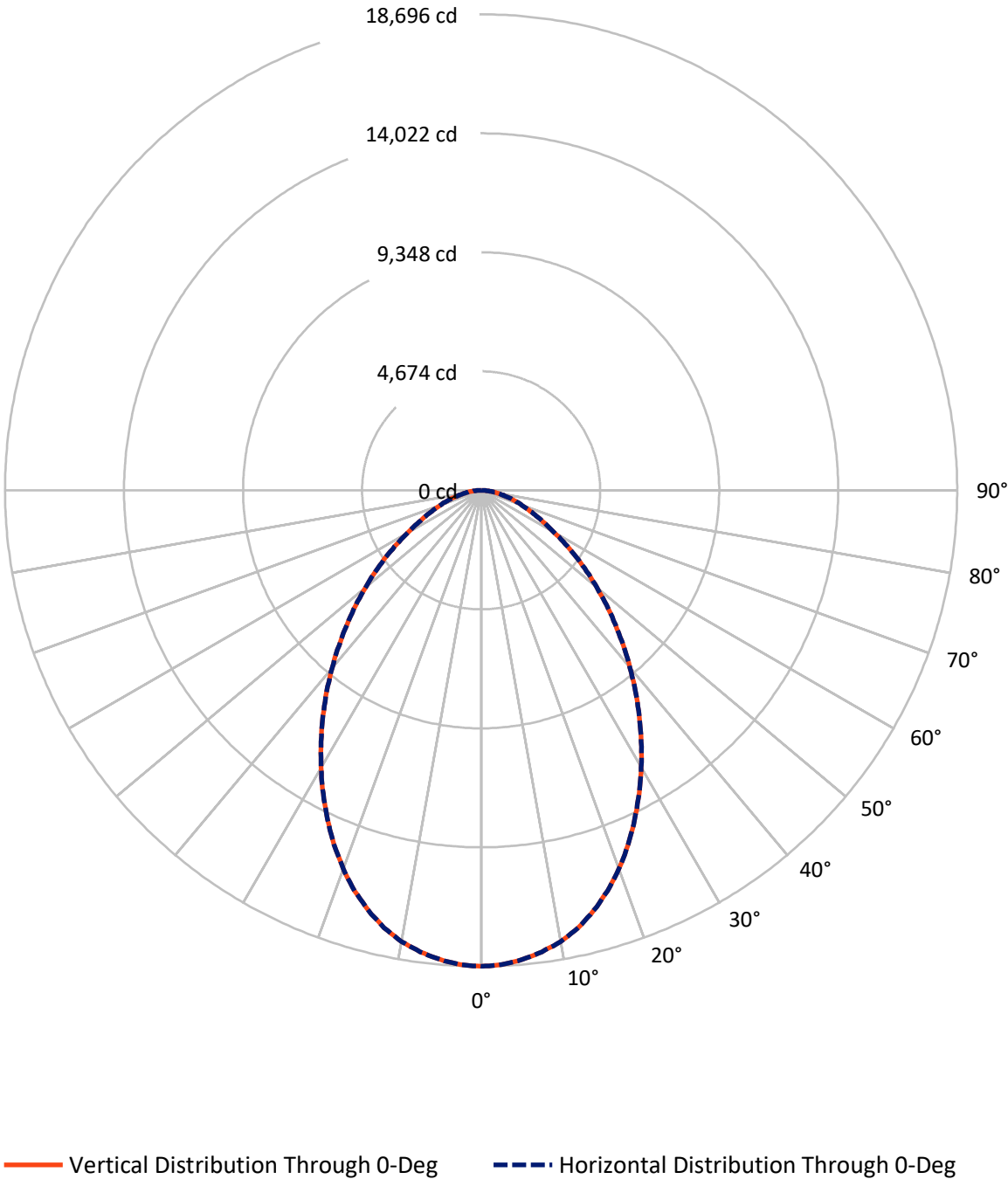
Lumen Table





REPORT NUMBER: P624551
CATALOG NUMBER: IFLD-L-SA8C-930-U-77

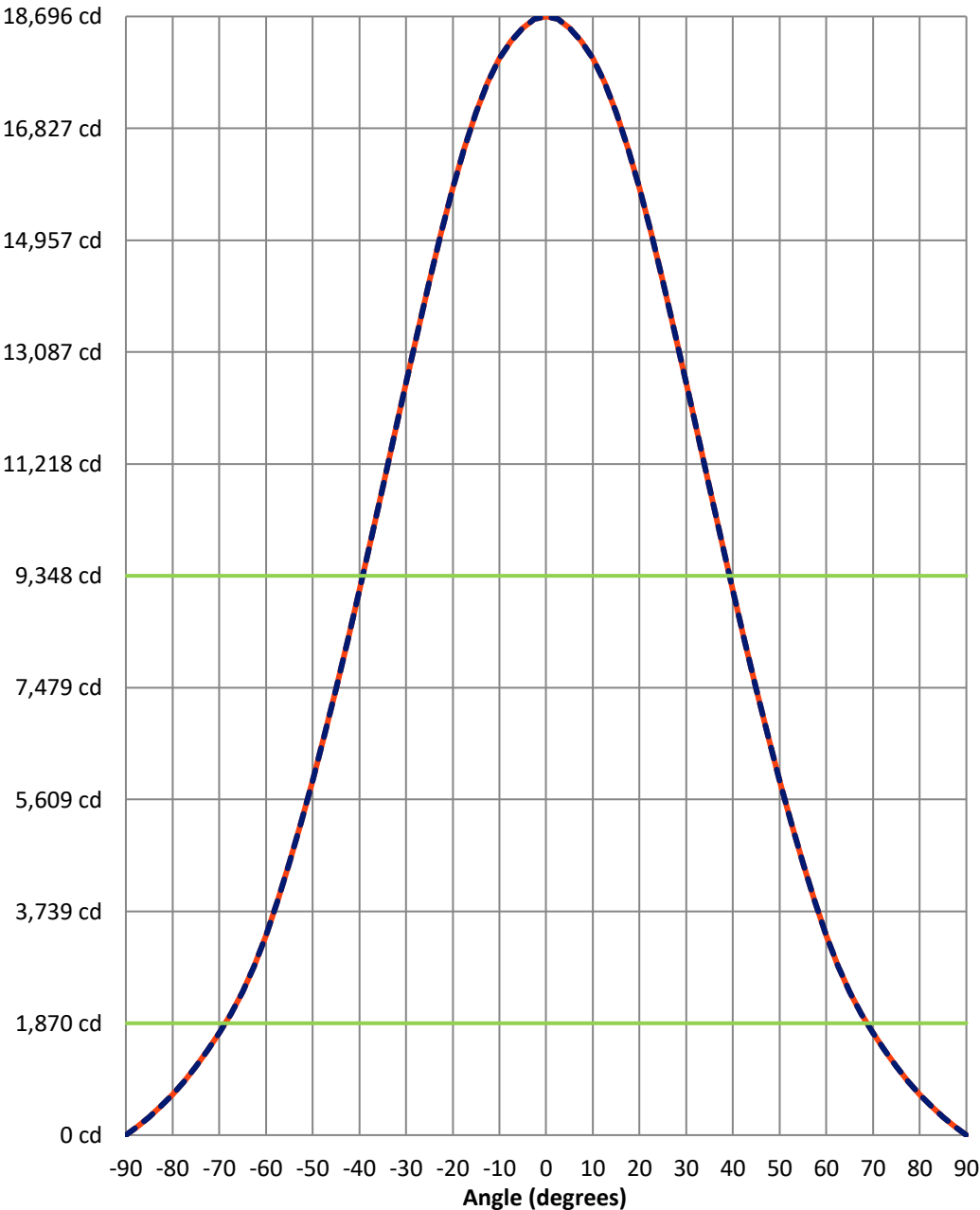
Luminous Intensity Polar Plot





REPORT NUMBER: P624551
CATALOG NUMBER: IFLD-L-SA8C-930-U-77

Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 14565.8
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 23850.9
Efficiency: 70.9%

Spill:
Lumens: 9812.3
Efficiency: 29.1%

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



REPORT NUMBER: P624551

CATALOG NUMBER: IFLD-L-SA8C-930-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°	143.9	143.9	143.9	143.9	143.9	143.9	143.9	136.9	136.9	133.4	129.9
85°	301.8	301.8	301.8	301.8	301.8	294.8	291.3	287.8	284.3	277.3	273.8
82.5°	484.3	484.3	484.3	484.3	477.3	470.3	466.8	459.8	452.8	442.2	431.7
80°	677.4	677.4	677.4	677.4	666.9	659.8	649.3	642.3	631.8	617.7	603.7
77.5°	898.5	898.5	898.5	888.0	880.9	870.4	859.9	845.8	831.8	814.3	793.2
75°	1147.7	1147.7	1147.7	1133.6	1123.1	1112.6	1095.0	1077.5	1056.4	1031.9	1003.8
72.5°	1417.9	1417.9	1417.9	1400.4	1389.9	1372.3	1351.2	1326.7	1302.1	1270.5	1235.4
70°	1709.2	1709.2	1709.2	1688.2	1670.6	1653.1	1625.0	1596.9	1561.8	1526.7	1484.6
67.5°	2025.1	2025.1	2025.1	2000.6	1979.5	1954.9	1923.3	1888.2	1846.1	1797.0	1747.9
65°	2393.6	2393.6	2379.6	2358.5	2334.0	2298.9	2260.3	2211.1	2158.5	2095.3	2028.6
62.5°	2828.9	2828.9	2807.8	2783.2	2751.6	2706.0	2653.4	2590.2	2516.5	2435.8	2355.0
60°	3334.3	3334.3	3309.7	3278.1	3232.5	3176.3	3106.1	3025.4	2934.1	2832.4	2734.1
57.5°	3916.9	3916.9	3885.3	3843.2	3787.0	3716.8	3629.1	3527.3	3411.5	3285.1	3162.3
55°	4548.6	4548.6	4510.0	4460.9	4394.2	4310.0	4204.7	4085.3	3944.9	3801.0	3643.1
52.5°	5219.0	5219.0	5173.4	5117.2	5040.0	4941.7	4822.4	4682.0	4520.5	4352.1	4166.1
50°	5924.4	5924.4	5871.8	5808.6	5720.9	5605.1	5468.2	5306.7	5127.7	4931.2	4717.1
47.5°	6679.0	6679.0	6619.4	6545.7	6440.4	6307.0	6145.6	5959.5	5756.0	5534.9	5292.7
45°	7454.7	7454.7	7388.0	7303.8	7187.9	7037.0	6858.0	6679.0	6419.3	6163.1	5882.3
42.5°	8261.9	8261.9	8184.7	8089.9	7956.6	7791.6	7588.1	7356.4	7100.2	6812.4	6507.1
40°	9100.8	9100.8	9013.0	8904.2	8756.8	8567.3	8339.1	8079.4	7791.6	7472.2	7135.3
37.5°	9957.1	9957.1	9858.9	9739.5	9574.6	9364.0	9107.8	8820.0	8497.1	8142.6	7770.6
35°	10820.5	10820.5	10711.7	10581.9	10399.4	10167.7	9890.4	9571.1	9213.1	8827.0	8409.3
32.5°	11701.5	11701.5	11582.1	11434.7	11227.7	10971.4	10666.1	10318.6	9957.1	9507.9	9051.6
30°	12571.9	12571.9	12442.0	12280.6	12059.5	11778.7	11445.3	11062.7	10638.0	10178.2	9686.9
27.5°	13428.3	13393.2	13284.4	13112.4	12870.2	12571.9	12210.4	11796.2	11336.5	10831.1	10304.6
25°	14270.6	14232.0	14112.7	13923.1	13663.4	13337.0	12947.4	12505.2	12010.3	11476.8	10901.3
22.5°	15077.8	15035.7	14909.4	14705.8	14428.5	14074.1	13656.4	13182.6	12656.1	12084.0	11476.8
20°	15825.4	15779.8	15649.9	15435.8	15148.0	14772.5	14330.3	13821.4	13259.8	12656.1	12010.3
17.5°	16499.3	16453.7	16316.8	16095.7	15825.4	15407.8	14951.5	14414.5	13821.4	13182.6	12505.2
15°	17092.4	17043.3	16902.9	16681.8	16372.9	15979.8	15499.0	14951.5	14330.3	13656.4	12947.4
12.5°	17597.8	17548.7	17404.8	17183.7	16864.3	16471.2	15979.8	15407.8	14772.5	14074.1	13337.0
10°	17997.9	17948.8	17811.9	17601.3	17271.4	16864.3	16372.9	15825.4	15148.0	14428.5	13663.4
7.5°	18285.7	18240.1	18113.8	17903.2	17601.3	17183.7	16681.8	16095.7	15435.8	14705.8	13923.1
5°	18503.3	18450.7	18324.4	18113.8	17811.9	17404.8	16902.9	16316.8	15649.9	14909.4	14112.7
2.5°	18654.3	18591.1	18450.7	18240.1	17948.8	17548.7	17043.3	16453.7	15779.8	15035.7	14232.0
0°	18696.4	18654.3	18503.3	18285.7	17997.9	17597.8	17092.4	16499.3	15825.4	15077.8	14270.6

REPORT NUMBER: P624551

CATALOG NUMBER: IFLD-L-SA8C-930-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°	126.4	126.4	122.8	119.3	115.8	108.8	105.3	101.8	98.3	91.3	87.7
85°	266.7	259.7	252.7	245.7	235.2	228.1	217.6	210.6	200.1	189.5	179.0
82.5°	421.2	410.6	396.6	386.1	372.0	354.5	340.4	322.9	305.3	291.3	273.8
80°	589.6	572.1	554.5	537.0	515.9	494.9	473.8	452.8	428.2	403.6	379.1
77.5°	772.1	747.6	723.0	694.9	670.4	642.3	614.2	586.1	554.5	523.0	491.4
75°	975.7	944.1	909.0	873.9	842.3	803.7	765.1	726.5	684.4	645.8	603.7
72.5°	1196.8	1158.2	1116.1	1074.0	1028.4	979.2	930.1	877.4	828.3	779.2	726.5
70°	1435.5	1389.9	1337.2	1284.6	1228.4	1168.7	1109.1	1045.9	982.7	919.6	856.4
67.5°	1691.7	1635.5	1572.4	1509.2	1439.0	1368.8	1298.6	1224.9	1147.7	1070.5	996.8
65°	1965.5	1895.3	1821.6	1740.8	1660.1	1579.4	1495.1	1407.4	1319.7	1228.4	1147.7
62.5°	2270.8	2183.1	2088.3	1990.0	1898.8	1800.5	1709.2	1600.4	1495.1	1393.4	1291.6
60°	2625.3	2509.5	2393.6	2270.8	2155.0	2028.6	1916.3	1797.0	1677.7	1561.8	1442.5
57.5°	3021.9	2874.5	2734.1	2586.7	2432.2	2291.9	2148.0	2004.1	1870.7	1733.8	1604.0
55°	3471.1	3292.1	3116.6	2934.1	2755.1	2579.7	2397.2	2235.7	2070.7	1916.3	1765.4
52.5°	3962.5	3758.9	3541.3	3334.3	3106.1	2888.5	2685.0	2481.4	2288.4	2102.3	1930.4
50°	4489.0	4250.3	4001.1	3748.4	3488.7	3232.5	2986.8	2748.1	2523.5	2305.9	2102.3
47.5°	5036.5	4766.2	4481.9	4194.1	3916.9	3604.5	3309.7	3039.4	2769.2	2523.5	2288.4
45°	5598.0	5292.7	4980.3	4653.9	4327.5	3990.6	3664.2	3334.3	3039.4	2748.1	2481.4
42.5°	6177.1	5833.2	5485.7	5124.2	4762.7	4394.2	4025.7	3664.2	3309.7	2986.8	2685.0
40°	6773.8	6394.7	5998.1	5605.1	5219.0	4797.8	4394.2	3990.6	3604.5	3232.5	2888.5
37.5°	7370.5	6956.3	6528.1	6085.9	5643.7	5219.0	4762.7	4327.5	3916.9	3488.7	3106.1
35°	7970.6	7514.4	7051.1	6570.2	6085.9	5605.1	5124.2	4653.9	4194.1	3748.4	3334.3
32.5°	8574.3	8075.9	7563.5	7051.1	6528.1	5998.1	5485.7	4980.3	4481.9	4001.1	3541.3
30°	9167.4	8626.9	8075.9	7514.4	6956.3	6394.7	5833.2	5292.7	4766.2	4250.3	3758.9
27.5°	9746.5	9167.4	8574.3	7970.6	7370.5	6773.8	6177.1	5598.0	5036.5	4489.0	3962.5
25°	10304.6	9686.9	9051.6	8409.3	7770.6	7135.3	6507.1	5882.3	5292.7	4717.1	4166.1
22.5°	10831.1	10178.2	9507.9	8827.0	8142.6	7472.2	6812.4	6163.1	5534.9	4931.2	4352.1
20°	11336.5	10638.0	9957.1	9213.1	8497.1	7791.6	7100.2	6419.3	5756.0	5127.7	4520.5
17.5°	11796.2	11062.7	10318.6	9571.1	8820.0	8079.4	7356.4	6679.0	5959.5	5306.7	4682.0
15°	12210.4	11445.3	10666.1	9890.4	9107.8	8339.1	7588.1	6858.0	6145.6	5468.2	4822.4
12.5°	12571.9	11778.7	10971.4	10167.7	9364.0	8567.3	7791.6	7037.0	6307.0	5605.1	4941.7
10°	12870.2	12059.5	11227.7	10399.4	9574.6	8756.8	7956.6	7187.9	6440.4	5720.9	5040.0
7.5°	13112.4	12280.6	11434.7	10581.9	9739.5	8904.2	8089.9	7303.8	6545.7	5808.6	5117.2
5°	13284.4	12442.0	11582.1	10711.7	9858.9	9013.0	8184.7	7388.0	6619.4	5871.8	5173.4
2.5°	13393.2	12571.9	11701.5	10820.5	9957.1	9100.8	8261.9	7454.7	6679.0	5924.4	5219.0
0°	13428.3	12571.9	11701.5	10820.5	9957.1	9100.8	8261.9	7454.7	6679.0	5924.4	5219.0

REPORT NUMBER: P624551

CATALOG NUMBER: IFLD-L-SA8C-930-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°	84.2	77.2	70.2	66.7	59.7	56.2	49.1	42.1	38.6	31.6	24.6
85°	168.5	154.4	143.9	133.4	122.8	108.8	98.3	87.7	73.7	63.2	49.1
82.5°	256.2	238.7	221.1	203.6	186.0	168.5	147.4	129.9	112.3	94.8	73.7
80°	354.5	326.4	301.8	277.3	252.7	228.1	200.1	175.5	147.4	122.8	98.3
77.5°	456.3	424.7	389.6	354.5	319.4	287.8	252.7	221.1	189.5	154.4	122.8
75°	565.1	523.0	484.3	438.7	396.6	351.0	308.9	266.7	228.1	189.5	147.4
72.5°	677.4	624.7	572.1	523.0	470.3	417.7	368.5	315.9	266.7	221.1	175.5
70°	793.2	730.0	666.9	607.2	547.5	484.3	428.2	368.5	308.9	252.7	200.1
67.5°	916.0	842.3	768.6	691.4	624.7	554.5	484.3	417.7	351.0	287.8	228.1
65°	1049.4	961.7	870.4	789.7	701.9	624.7	547.5	470.3	396.6	319.4	252.7
62.5°	1186.3	1084.5	982.7	880.9	789.7	691.4	607.2	523.0	438.7	354.5	277.3
60°	1326.7	1210.9	1095.0	982.7	870.4	768.6	666.9	572.1	484.3	389.6	301.8
57.5°	1470.6	1340.7	1210.9	1084.5	961.7	842.3	730.0	624.7	523.0	424.7	326.4
55°	1618.0	1470.6	1326.7	1186.3	1049.4	916.0	793.2	677.4	565.1	456.3	354.5
52.5°	1765.4	1604.0	1442.5	1291.6	1147.7	996.8	856.4	726.5	603.7	491.4	379.1
50°	1916.3	1733.8	1561.8	1393.4	1228.4	1070.5	919.6	779.2	645.8	523.0	403.6
47.5°	2070.7	1870.7	1677.7	1495.1	1319.7	1147.7	982.7	828.3	684.4	554.5	428.2
45°	2235.7	2004.1	1797.0	1600.4	1407.4	1224.9	1045.9	877.4	726.5	586.1	452.8
42.5°	2397.2	2148.0	1916.3	1709.2	1495.1	1298.6	1109.1	930.1	765.1	614.2	473.8
40°	2579.7	2291.9	2028.6	1800.5	1579.4	1368.8	1168.7	979.2	803.7	642.3	494.9
37.5°	2755.1	2432.2	2155.0	1898.8	1660.1	1439.0	1228.4	1028.4	842.3	670.4	515.9
35°	2934.1	2586.7	2270.8	1990.0	1740.8	1509.2	1284.6	1074.0	873.9	694.9	537.0
32.5°	3116.6	2734.1	2393.6	2088.3	1821.6	1572.4	1337.2	1116.1	909.0	723.0	554.5
30°	3292.1	2874.5	2509.5	2183.1	1895.3	1635.5	1389.9	1158.2	944.1	747.6	572.1
27.5°	3471.1	3021.9	2625.3	2270.8	1965.5	1691.7	1435.5	1196.8	975.7	772.1	589.6
25°	3643.1	3162.3	2734.1	2355.0	2028.6	1747.9	1484.6	1235.4	1003.8	793.2	603.7
22.5°	3801.0	3285.1	2832.4	2435.8	2095.3	1797.0	1526.7	1270.5	1031.9	814.3	617.7
20°	3944.9	3411.5	2934.1	2516.5	2158.5	1846.1	1561.8	1302.1	1056.4	831.8	631.8
17.5°	4085.3	3527.3	3025.4	2590.2	2211.1	1888.2	1596.9	1326.7	1077.5	845.8	642.3
15°	4204.7	3629.1	3106.1	2653.4	2260.3	1923.3	1625.0	1351.2	1095.0	859.9	649.3
12.5°	4310.0	3716.8	3176.3	2706.0	2298.9	1954.9	1653.1	1372.3	1112.6	870.4	659.8
10°	4394.2	3787.0	3232.5	2751.6	2334.0	1979.5	1670.6	1389.9	1123.1	880.9	666.9
7.5°	4460.9	3843.2	3278.1	2783.2	2358.5	2000.6	1688.2	1400.4	1133.6	888.0	677.4
5°	4510.0	3885.3	3309.7	2807.8	2379.6	2025.1	1709.2	1417.9	1147.7	898.5	677.4
2.5°	4548.6	3916.9	3334.3	2828.9	2393.6	2025.1	1709.2	1417.9	1147.7	898.5	677.4
0°	4548.6	3916.9	3334.3	2828.9	2393.6	2025.1	1709.2	1417.9	1147.7	898.5	677.4

REPORT NUMBER: P624551

CATALOG NUMBER: IFLD-L-SA8C-930-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.5	14.0	7.0	0.0
85°	38.6	24.6	14.0	0.0
82.5°	56.2	38.6	17.5	0.0
80°	73.7	49.1	24.6	0.0
77.5°	94.8	63.2	31.6	0.0
75°	112.3	73.7	38.6	0.0
72.5°	129.9	87.7	42.1	0.0
70°	147.4	98.3	49.1	0.0
67.5°	168.5	108.8	56.2	0.0
65°	186.0	122.8	59.7	0.0
62.5°	203.6	133.4	66.7	0.0
60°	221.1	143.9	70.2	0.0
57.5°	238.7	154.4	77.2	0.0
55°	256.2	168.5	84.2	0.0
52.5°	273.8	179.0	87.7	0.0
50°	291.3	189.5	91.3	0.0
47.5°	305.3	200.1	98.3	0.0
45°	322.9	210.6	101.8	0.0
42.5°	340.4	217.6	105.3	0.0
40°	354.5	228.1	108.8	0.0
37.5°	372.0	235.2	115.8	0.0
35°	386.1	245.7	119.3	0.0
32.5°	396.6	252.7	122.8	0.0
30°	410.6	259.7	126.4	0.0
27.5°	421.2	266.7	126.4	0.0
25°	431.7	273.8	129.9	0.0
22.5°	442.2	277.3	133.4	0.0
20°	452.8	284.3	136.9	0.0
17.5°	459.8	287.8	136.9	0.0
15°	466.8	291.3	143.9	0.0
12.5°	470.3	294.8	143.9	0.0
10°	477.3	301.8	143.9	0.0
7.5°	484.3	301.8	143.9	0.0
5°	484.3	301.8	143.9	0.0
2.5°	484.3	301.8	143.9	0.0
0°	484.3	301.8	143.9	0.0

(END OF REPORT)