

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: P623881

Luminaire Tested: **IFLD-S-SA6C-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623881
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	39282.1 lumens	Max Intensity:	21817.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	122.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	16997 lumens	Field Lumens:	27831.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

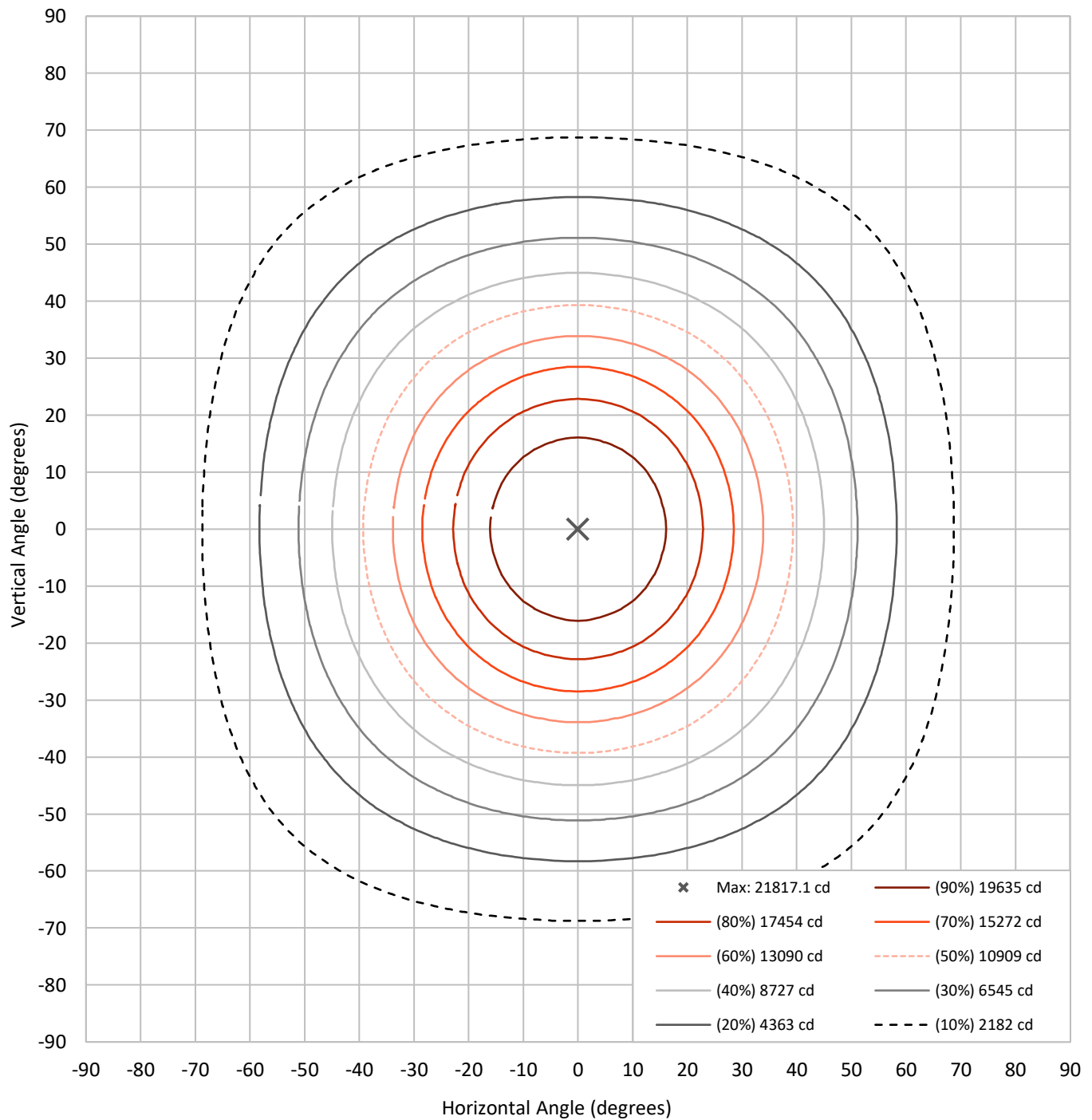
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P623881

CATALOG NUMBER: IFLD-S-SA6C-730-U-77

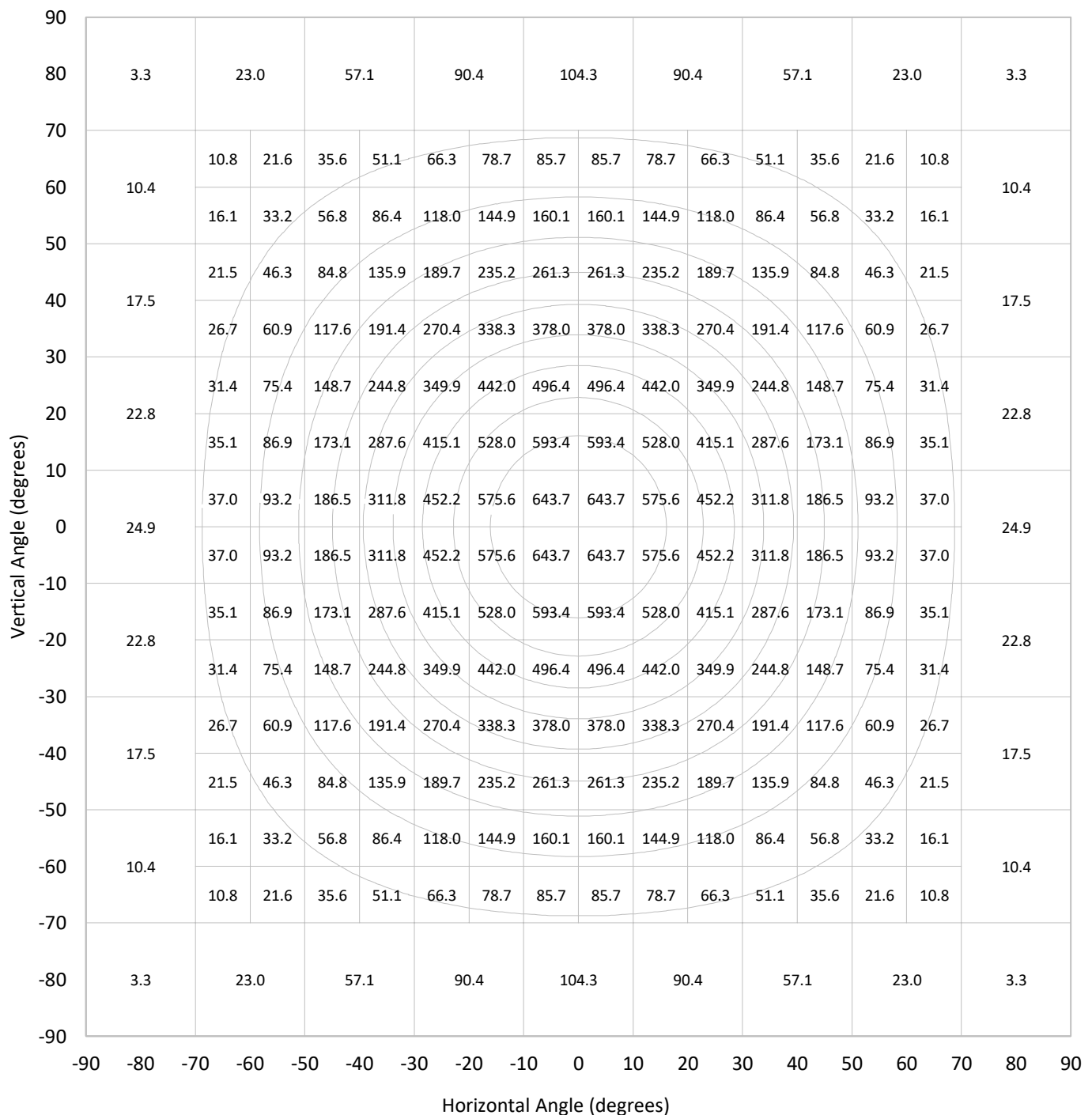
Iso-Candela Plot



REPORT NUMBER: P623881

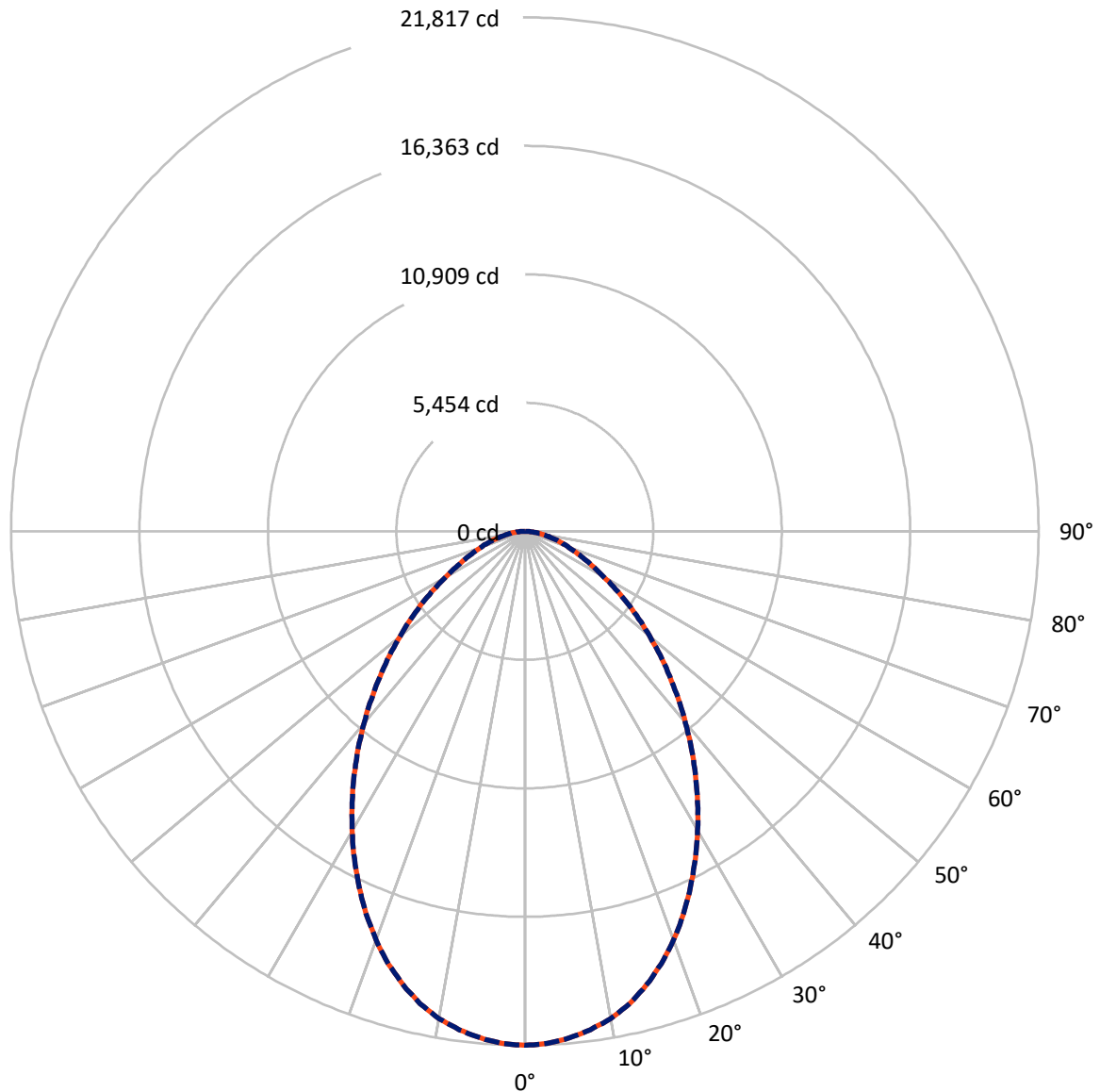
CATALOG NUMBER: IFLD-S-SA6C-730-U-77

Lumen Table



REPORT NUMBER: P623881
CATALOG NUMBER: IFLD-S-SA6C-730-U-77

Luminous Intensity Polar Plot

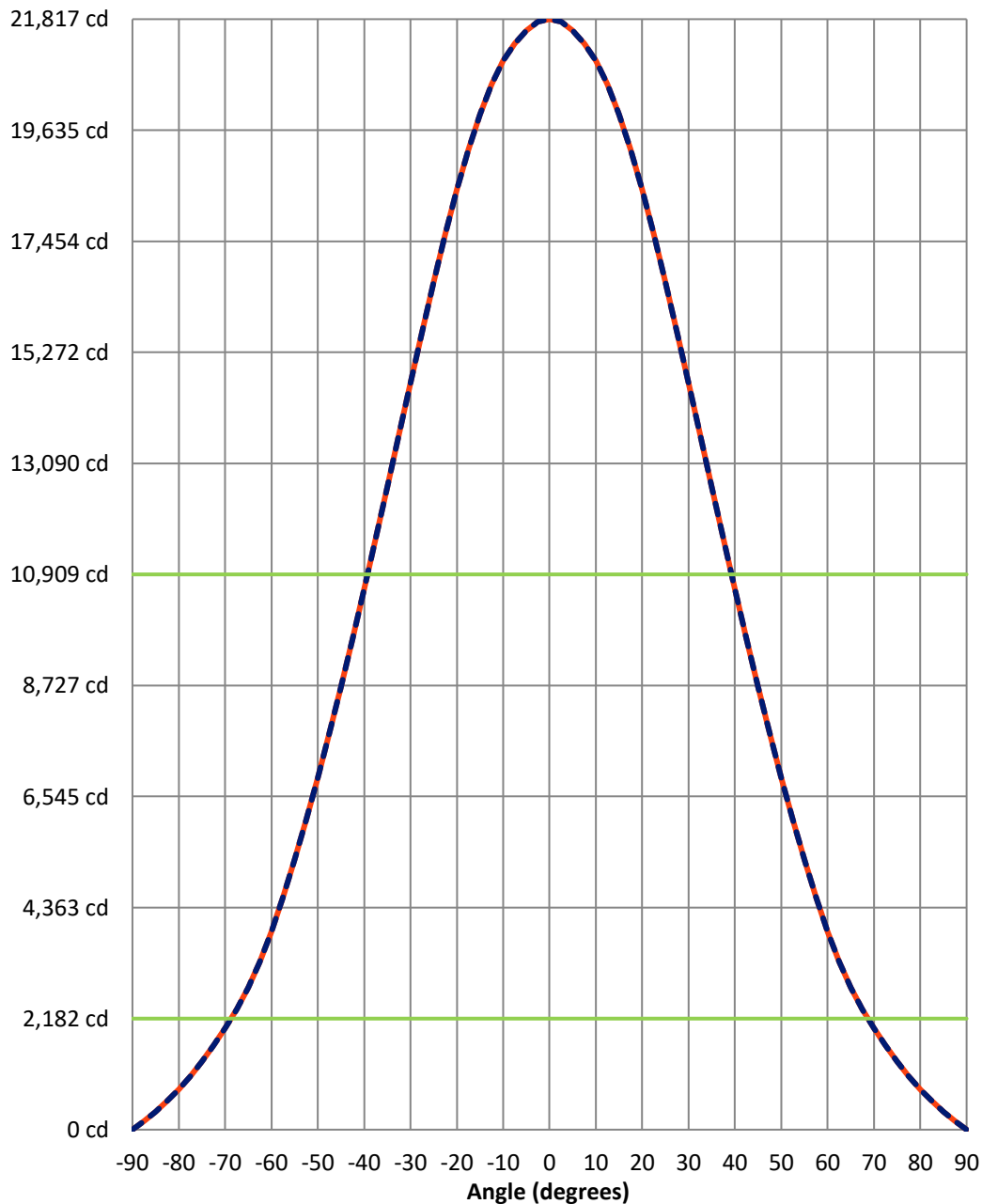


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623881

CATALOG NUMBER: IFLD-S-SA6C-730-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 16997
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 27831.9
Efficiency: 70.9%

Spill:

Lumens: 11450.1
Efficiency: 29.1%

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

REPORT NUMBER: P623881

CATALOG NUMBER: IFLD-S-SA6C-730-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°	167.9	167.9	167.9	167.9	167.9	167.9	167.9	159.7	159.7	155.6	151.5
85°	352.2	352.2	352.2	352.2	352.2	344.0	339.9	335.8	331.7	323.5	319.5
82.5°	565.2	565.2	565.2	565.2	557.0	548.8	544.7	536.5	528.3	516.0	503.8
80°	790.4	790.4	790.4	790.4	778.2	770.0	757.7	749.5	737.2	720.8	704.4
77.5°	1048.5	1048.5	1048.5	1036.2	1028.0	1015.7	1003.4	987.0	970.6	950.2	925.6
75°	1339.2	1339.2	1339.2	1322.9	1310.6	1298.3	1277.8	1257.3	1232.8	1204.1	1171.3
72.5°	1654.6	1654.6	1654.6	1634.1	1621.8	1601.4	1576.8	1548.1	1519.5	1482.6	1441.6
70°	1994.5	1994.5	1994.5	1970.0	1949.5	1929.0	1896.2	1863.5	1822.5	1781.6	1732.4
67.5°	2363.1	2363.1	2363.1	2334.5	2309.9	2281.2	2244.4	2203.4	2154.3	2096.9	2039.6
65°	2793.2	2793.2	2776.8	2752.2	2723.5	2682.6	2637.5	2580.2	2518.8	2445.0	2367.2
62.5°	3301.0	3301.0	3276.4	3247.8	3210.9	3157.7	3096.2	3022.5	2936.5	2842.3	2748.1
60°	3890.8	3890.8	3862.1	3825.3	3772.0	3706.5	3624.6	3530.4	3423.9	3305.1	3190.4
57.5°	4570.6	4570.6	4533.8	4484.6	4419.1	4337.2	4234.8	4116.0	3980.9	3833.4	3690.1
55°	5307.8	5307.8	5262.8	5205.5	5127.6	5029.3	4906.5	4767.2	4603.4	4435.5	4251.2
52.5°	6090.1	6090.1	6036.9	5971.3	5881.2	5766.5	5627.3	5463.5	5275.1	5078.5	4861.4
50°	6913.3	6913.3	6851.9	6778.2	6675.8	6540.6	6380.9	6192.5	5983.6	5754.3	5504.4
47.5°	7793.9	7793.9	7724.2	7638.2	7515.4	7359.7	7171.3	6954.3	6716.7	6458.7	6176.1
45°	8699.0	8699.0	8621.2	8522.9	8387.7	8211.6	8002.7	7793.9	7490.8	7191.8	6864.2
42.5°	9640.9	9640.9	9550.8	9440.3	9284.6	9092.1	8854.6	8584.3	8285.3	7949.5	7593.2
40°	10619.8	10619.8	10517.4	10390.4	10218.4	9997.3	9731.1	9428.0	9092.1	8719.4	8326.3
37.5°	11619.1	11619.1	11504.4	11365.2	11172.7	10927.0	10628.0	10292.1	9915.4	9501.7	9067.6
35°	12626.6	12626.6	12499.7	12348.1	12135.1	11864.8	11541.3	11168.6	10750.8	10300.3	9813.0
32.5°	13654.6	13654.6	13515.3	13343.3	13101.7	12802.7	12446.4	12040.9	11619.1	11094.9	10562.5
30°	14670.3	14670.3	14518.8	14330.4	14072.3	13744.7	13355.6	12909.2	12413.6	11877.1	11303.7
27.5°	15669.6	15628.7	15501.7	15301.0	15018.4	14670.3	14248.5	13765.2	13228.7	12638.9	12024.6
25°	16652.5	16607.5	16468.2	16247.1	15944.0	15563.1	15108.5	14592.5	14015.0	13392.5	12720.8
22.5°	17594.5	17545.4	17397.9	17160.4	16836.8	16423.2	15935.8	15382.9	14768.6	14101.0	13392.5
20°	18466.9	18413.6	18262.1	18012.3	17676.4	17238.2	16722.2	16128.3	15473.0	14768.6	14015.0
17.5°	19253.2	19200.0	19040.3	18782.2	18466.9	17979.5	17447.1	16820.5	16128.3	15382.9	14592.5
15°	19945.4	19888.0	19724.2	19466.2	19105.8	18647.1	18086.0	17447.1	16722.2	15935.8	15108.5
12.5°	20535.1	20477.8	20309.9	20051.9	19679.2	19220.5	18647.1	17979.5	17238.2	16423.2	15563.1
10°	21002.0	20944.7	20785.0	20539.2	20154.3	19679.2	19105.8	18466.9	17676.4	16836.8	15944.0
7.5°	21337.9	21284.6	21137.2	20891.5	20539.2	20051.9	19466.2	18782.2	18012.3	17160.4	16247.1
5°	21591.8	21530.4	21382.9	21137.2	20785.0	20309.9	19724.2	19040.3	18262.1	17397.9	16468.2
2.5°	21767.9	21694.2	21530.4	21284.6	20944.7	20477.8	19888.0	19200.0	18413.6	17545.4	16607.5
0°	21817.1	21767.9	21591.8	21337.9	21002.0	20535.1	19945.4	19253.2	18466.9	17594.5	16652.5

REPORT NUMBER: P623881

CATALOG NUMBER: IFLD-S-SA6C-730-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°	147.4	147.4	143.3	139.2	135.2	127.0	122.9	118.8	114.7	106.5	102.4
85°	311.3	303.1	294.9	286.7	274.4	266.2	253.9	245.7	233.4	221.2	208.9
82.5°	491.5	479.2	462.8	450.5	434.1	413.7	397.3	376.8	356.3	339.9	319.5
80°	688.1	667.6	647.1	626.6	602.0	577.5	552.9	528.3	499.7	471.0	442.3
77.5°	901.0	872.4	843.7	810.9	782.3	749.5	716.7	684.0	647.1	610.2	573.4
75°	1138.6	1101.7	1060.8	1019.8	982.9	937.9	892.8	847.8	798.6	753.6	704.4
72.5°	1396.6	1351.5	1302.4	1253.2	1200.0	1142.7	1085.3	1023.9	966.6	909.2	847.8
70°	1675.1	1621.8	1560.4	1499.0	1433.4	1363.8	1294.2	1220.5	1146.8	1073.0	999.3
67.5°	1974.1	1908.5	1834.8	1761.1	1679.2	1597.3	1515.4	1429.4	1339.2	1249.1	1163.1
65°	2293.5	2211.6	2125.6	2031.4	1937.2	1843.0	1744.7	1642.3	1539.9	1433.4	1339.2
62.5°	2649.8	2547.4	2436.9	2322.2	2215.7	2101.0	1994.5	1867.6	1744.7	1625.9	1507.2
60°	3063.5	2928.3	2793.2	2649.8	2514.7	2367.2	2236.2	2096.9	1957.7	1822.5	1683.3
57.5°	3526.3	3354.3	3190.4	3018.4	2838.2	2674.4	2506.5	2338.6	2182.9	2023.2	1871.7
55°	4050.5	3841.6	3636.9	3423.9	3215.0	3010.2	2797.3	2608.9	2416.4	2236.2	2060.1
52.5°	4623.9	4386.3	4132.4	3890.8	3624.6	3370.6	3133.1	2895.6	2670.3	2453.2	2252.6
50°	5238.2	4959.7	4668.9	4374.1	4071.0	3772.0	3485.3	3206.8	2944.7	2690.8	2453.2
47.5°	5877.1	5561.8	5230.0	4894.2	4570.6	4206.1	3862.1	3546.8	3231.4	2944.7	2670.3
45°	6532.4	6176.1	5811.6	5430.7	5049.8	4656.7	4275.8	3890.8	3546.8	3206.8	2895.6
42.5°	7208.2	6806.8	6401.4	5979.5	5557.7	5127.6	4697.6	4275.8	3862.1	3485.3	3133.1
40°	7904.4	7462.1	6999.3	6540.6	6090.1	5598.6	5127.6	4656.7	4206.1	3772.0	3370.6
37.5°	8600.7	8117.4	7617.7	7101.7	6585.7	6090.1	5557.7	5049.8	4570.6	4071.0	3624.6
35°	9301.0	8768.6	8228.0	7666.9	7101.7	6540.6	5979.5	5430.7	4894.2	4374.1	3890.8
32.5°	10005.5	9423.9	8825.9	8228.0	7617.7	6999.3	6401.4	5811.6	5230.0	4668.9	4132.4
30°	10697.6	10066.9	9423.9	8768.6	8117.4	7462.1	6806.8	6176.1	5561.8	4959.7	4386.3
27.5°	11373.4	10697.6	10005.5	9301.0	8600.7	7904.4	7208.2	6532.4	5877.1	5238.2	4623.9
25°	12024.6	11303.7	10562.5	9813.0	9067.6	8326.3	7593.2	6864.2	6176.1	5504.4	4861.4
22.5°	12638.9	11877.1	11094.9	10300.3	9501.7	8719.4	7949.5	7191.8	6458.7	5754.3	5078.5
20°	13228.7	12413.6	11619.1	10750.8	9915.4	9092.1	8285.3	7490.8	6716.7	5983.6	5275.1
17.5°	13765.2	12909.2	12040.9	11168.6	10292.1	9428.0	8584.3	7793.9	6954.3	6192.5	5463.5
15°	14248.5	13355.6	12446.4	11541.3	10628.0	9731.1	8854.6	8002.7	7171.3	6380.9	5627.3
12.5°	14670.3	13744.7	12802.7	11864.8	10927.0	9997.3	9092.1	8211.6	7359.7	6540.6	5766.5
10°	15018.4	14072.3	13101.7	12135.1	11172.7	10218.4	9284.6	8387.7	7515.4	6675.8	5881.2
7.5°	15301.0	14330.4	13343.3	12348.1	11365.2	10390.4	9440.3	8522.9	7638.2	6778.2	5971.3
5°	15501.7	14518.8	13515.3	12499.7	11504.4	10517.4	9550.8	8621.2	7724.2	6851.9	6036.9
2.5°	15628.7	14670.3	13654.6	12626.6	11619.1	10619.8	9640.9	8699.0	7793.9	6913.3	6090.1
0°	15669.6	14670.3	13654.6	12626.6	11619.1	10619.8	9640.9	8699.0	7793.9	6913.3	6090.1

REPORT NUMBER: P623881

CATALOG NUMBER: IFLD-S-SA6C-730-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°	98.3	90.1	81.9	77.8	69.6	65.5	57.3	49.1	45.1	36.9	28.7
85°	196.6	180.2	167.9	155.6	143.3	127.0	114.7	102.4	86.0	73.7	57.3
82.5°	299.0	278.5	258.0	237.5	217.1	196.6	172.0	151.5	131.1	110.6	86.0
80°	413.7	380.9	352.2	323.5	294.9	266.2	233.4	204.8	172.0	143.3	114.7
77.5°	532.4	495.6	454.6	413.7	372.7	335.8	294.9	258.0	221.2	180.2	143.3
75°	659.4	610.2	565.2	511.9	462.8	409.6	360.4	311.3	266.2	221.2	172.0
72.5°	790.4	729.0	667.6	610.2	548.8	487.4	430.0	368.6	311.3	258.0	204.8
70°	925.6	851.9	778.2	708.5	638.9	565.2	499.7	430.0	360.4	294.9	233.4
67.5°	1068.9	982.9	896.9	806.8	729.0	647.1	565.2	487.4	409.6	335.8	266.2
65°	1224.6	1122.2	1015.7	921.5	819.1	729.0	638.9	548.8	462.8	372.7	294.9
62.5°	1384.3	1265.5	1146.8	1028.0	921.5	806.8	708.5	610.2	511.9	413.7	323.5
60°	1548.1	1413.0	1277.8	1146.8	1015.7	896.9	778.2	667.6	565.2	454.6	352.2
57.5°	1716.0	1564.5	1413.0	1265.5	1122.2	982.9	851.9	729.0	610.2	495.6	380.9
55°	1888.1	1716.0	1548.1	1384.3	1224.6	1068.9	925.6	790.4	659.4	532.4	413.7
52.5°	2060.1	1871.7	1683.3	1507.2	1339.2	1163.1	999.3	847.8	704.4	573.4	442.3
50°	2236.2	2023.2	1822.5	1625.9	1433.4	1249.1	1073.0	909.2	753.6	610.2	471.0
47.5°	2416.4	2182.9	1957.7	1744.7	1539.9	1339.2	1146.8	966.6	798.6	647.1	499.7
45°	2608.9	2338.6	2096.9	1867.6	1642.3	1429.4	1220.5	1023.9	847.8	684.0	528.3
42.5°	2797.3	2506.5	2236.2	1994.5	1744.7	1515.4	1294.2	1085.3	892.8	716.7	552.9
40°	3010.2	2674.4	2367.2	2101.0	1843.0	1597.3	1363.8	1142.7	937.9	749.5	577.5
37.5°	3215.0	2838.2	2514.7	2215.7	1937.2	1679.2	1433.4	1200.0	982.9	782.3	602.0
35°	3423.9	3018.4	2649.8	2322.2	2031.4	1761.1	1499.0	1253.2	1019.8	810.9	626.6
32.5°	3636.9	3190.4	2793.2	2436.9	2125.6	1834.8	1560.4	1302.4	1060.8	843.7	647.1
30°	3841.6	3354.3	2928.3	2547.4	2211.6	1908.5	1621.8	1351.5	1101.7	872.4	667.6
27.5°	4050.5	3526.3	3063.5	2649.8	2293.5	1974.1	1675.1	1396.6	1138.6	901.0	688.1
25°	4251.2	3690.1	3190.4	2748.1	2367.2	2039.6	1732.4	1441.6	1171.3	925.6	704.4
22.5°	4435.5	3833.4	3305.1	2842.3	2445.0	2096.9	1781.6	1482.6	1204.1	950.2	720.8
20°	4603.4	3980.9	3423.9	2936.5	2518.8	2154.3	1822.5	1519.5	1232.8	970.6	737.2
17.5°	4767.2	4116.0	3530.4	3022.5	2580.2	2203.4	1863.5	1548.1	1257.3	987.0	749.5
15°	4906.5	4234.8	3624.6	3096.2	2637.5	2244.4	1896.2	1576.8	1277.8	1003.4	757.7
12.5°	5029.3	4337.2	3706.5	3157.7	2682.6	2281.2	1929.0	1601.4	1298.3	1015.7	770.0
10°	5127.6	4419.1	3772.0	3210.9	2723.5	2309.9	1949.5	1621.8	1310.6	1028.0	778.2
7.5°	5205.5	4484.6	3825.3	3247.8	2752.2	2334.5	1970.0	1634.1	1322.9	1036.2	790.4
5°	5262.8	4533.8	3862.1	3276.4	2776.8	2363.1	1994.5	1654.6	1339.2	1048.5	790.4
2.5°	5307.8	4570.6	3890.8	3301.0	2793.2	2363.1	1994.5	1654.6	1339.2	1048.5	790.4
0°	5307.8	4570.6	3890.8	3301.0	2793.2	2363.1	1994.5	1654.6	1339.2	1048.5	790.4

REPORT NUMBER: P623881

CATALOG NUMBER: IFLD-S-SA6C-730-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.5	16.4	8.2	0.0
85°	45.1	28.7	16.4	0.0
82.5°	65.5	45.1	20.5	0.0
80°	86.0	57.3	28.7	0.0
77.5°	110.6	73.7	36.9	0.0
75°	131.1	86.0	45.1	0.0
72.5°	151.5	102.4	49.1	0.0
70°	172.0	114.7	57.3	0.0
67.5°	196.6	127.0	65.5	0.0
65°	217.1	143.3	69.6	0.0
62.5°	237.5	155.6	77.8	0.0
60°	258.0	167.9	81.9	0.0
57.5°	278.5	180.2	90.1	0.0
55°	299.0	196.6	98.3	0.0
52.5°	319.5	208.9	102.4	0.0
50°	339.9	221.2	106.5	0.0
47.5°	356.3	233.4	114.7	0.0
45°	376.8	245.7	118.8	0.0
42.5°	397.3	253.9	122.9	0.0
40°	413.7	266.2	127.0	0.0
37.5°	434.1	274.4	135.2	0.0
35°	450.5	286.7	139.2	0.0
32.5°	462.8	294.9	143.3	0.0
30°	479.2	303.1	147.4	0.0
27.5°	491.5	311.3	147.4	0.0
25°	503.8	319.5	151.5	0.0
22.5°	516.0	323.5	155.6	0.0
20°	528.3	331.7	159.7	0.0
17.5°	536.5	335.8	159.7	0.0
15°	544.7	339.9	167.9	0.0
12.5°	548.8	344.0	167.9	0.0
10°	557.0	352.2	167.9	0.0
7.5°	565.2	352.2	167.9	0.0
5°	565.2	352.2	167.9	0.0
2.5°	565.2	352.2	167.9	0.0
0°	565.2	352.2	167.9	0.0

(END OF REPORT)