

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: P623877

Luminaire Tested: **IFLD-S-SA3D-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623877
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22033.9 lumens	Max Intensity:	12237.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.7 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:	9533.8 lumens	Field Lumens:	15611.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

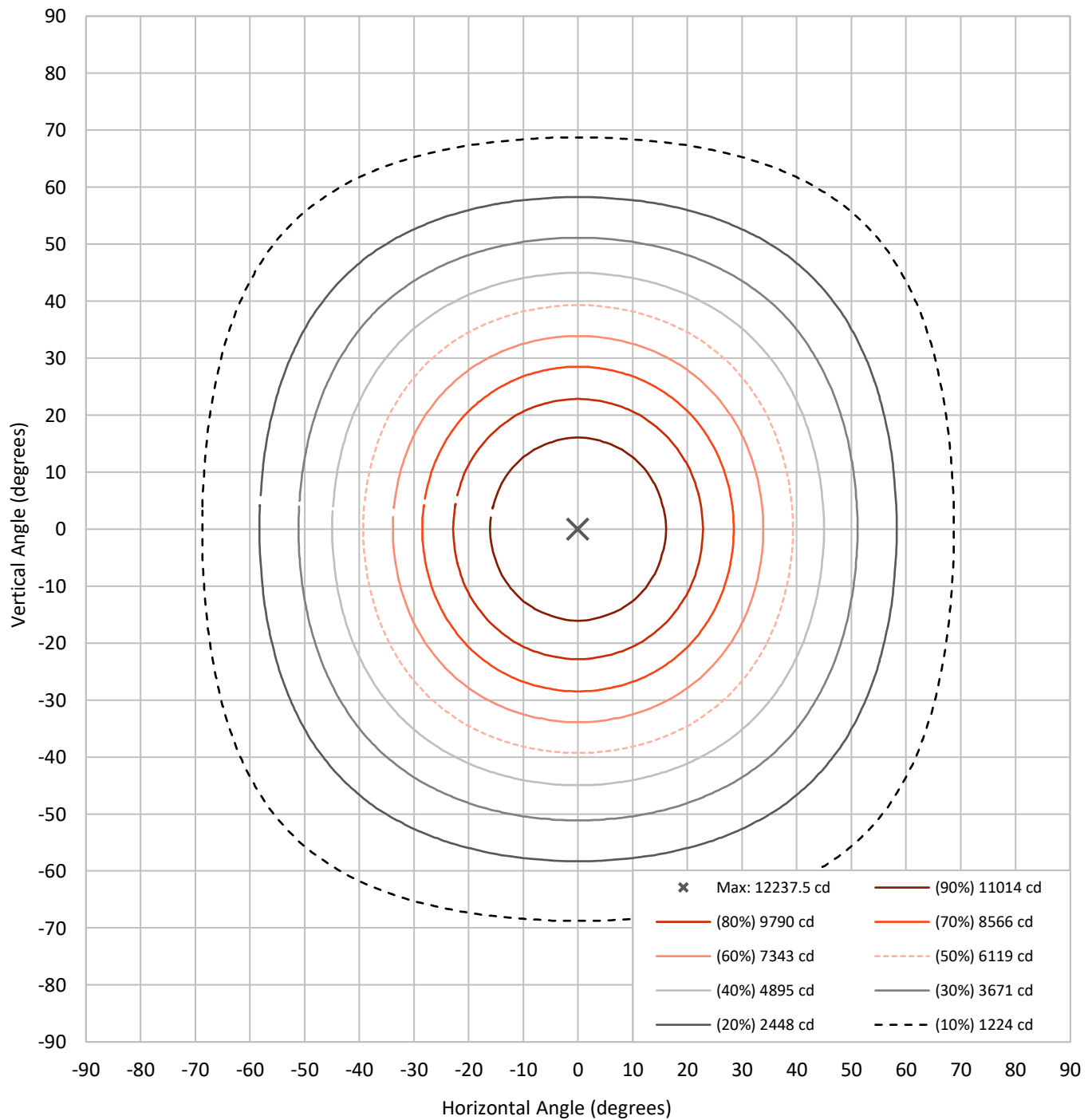
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P623877

CATALOG NUMBER: IFLD-S-SA3D-730-U-77

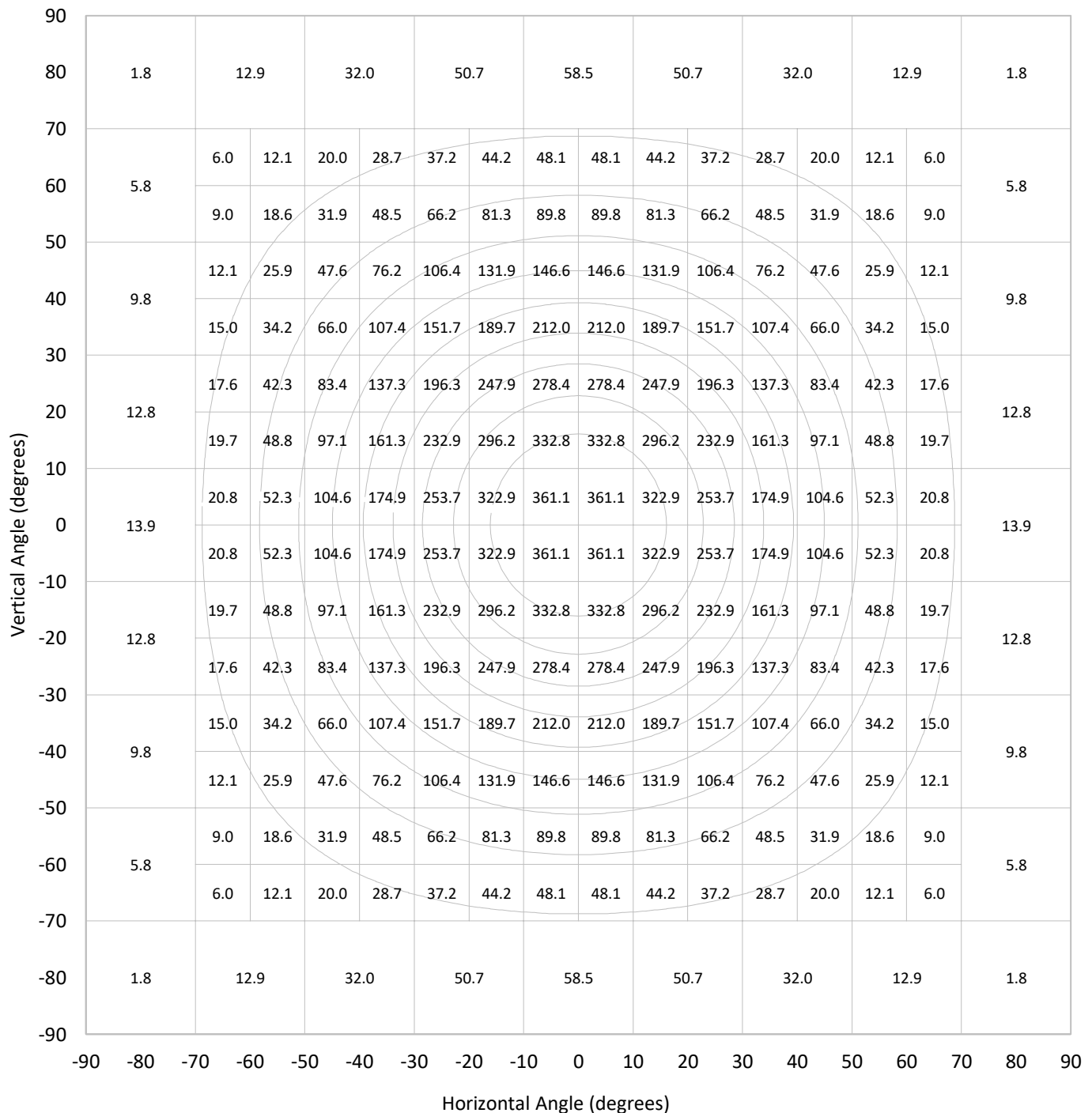
Iso-Candela Plot



REPORT NUMBER: P623877

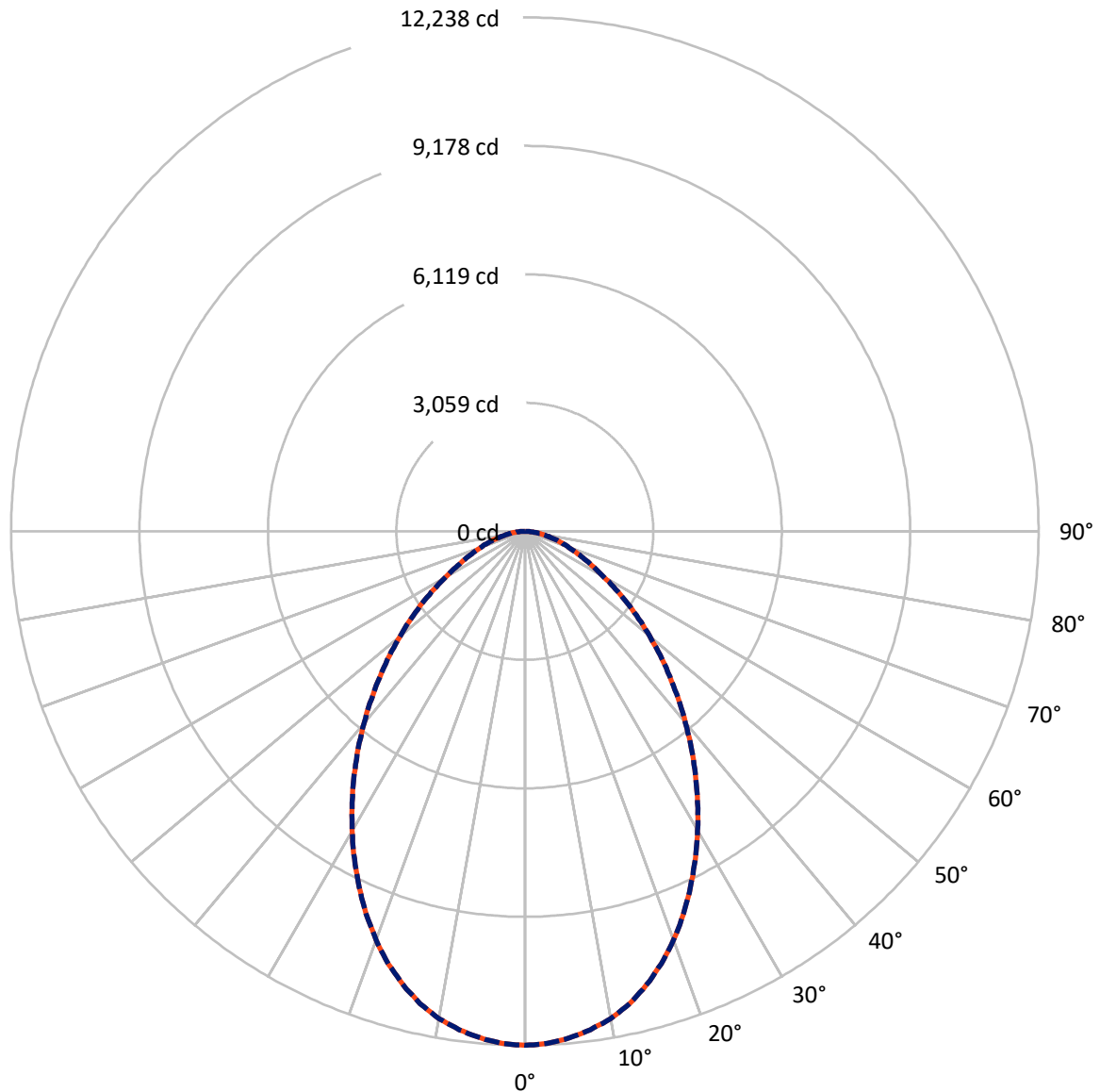
CATALOG NUMBER: IFLD-S-SA3D-730-U-77

Lumen Table



REPORT NUMBER: P623877
CATALOG NUMBER: IFLD-S-SA3D-730-U-77

Luminous Intensity Polar Plot

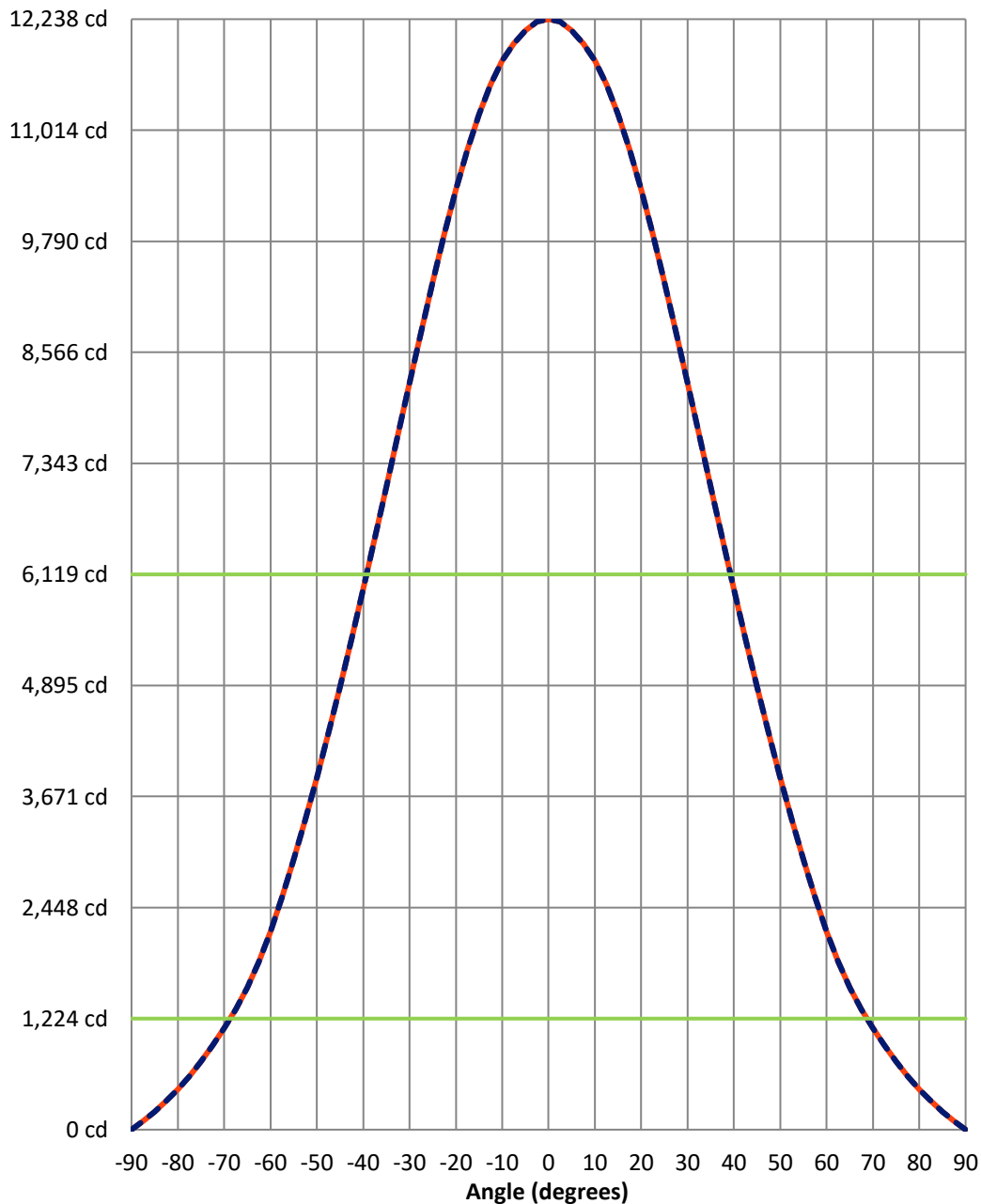


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623877

CATALOG NUMBER: IFLD-S-SA3D-730-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 9533.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 15611.3
Efficiency: 70.9%

Spill:

Lumens: 6422.5
Efficiency: 29.1%

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



REPORT NUMBER: P623877

CATALOG NUMBER: IFLD-S-SA3D-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°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	89.6	89.6	87.3	85.0
85°	197.6	197.6	197.6	197.6	197.6	193.0	190.7	188.4	186.1	181.5	179.2
82.5°	317.0	317.0	317.0	317.0	312.4	307.8	305.5	300.9	296.3	289.5	282.6
80°	443.4	443.4	443.4	443.4	436.5	431.9	425.0	420.4	413.5	404.3	395.1
77.5°	588.1	588.1	588.1	581.2	576.6	569.7	562.8	553.6	544.5	533.0	519.2
75°	751.2	751.2	751.2	742.0	735.1	728.2	716.7	705.3	691.5	675.4	657.0
72.5°	928.1	928.1	928.1	916.6	909.7	898.2	884.4	868.4	852.3	831.6	808.6
70°	1118.8	1118.8	1118.8	1105.0	1093.5	1082.0	1063.6	1045.3	1022.3	999.3	971.7
67.5°	1325.5	1325.5	1325.5	1309.4	1295.7	1279.6	1258.9	1235.9	1208.4	1176.2	1144.0
65°	1566.7	1566.7	1557.5	1543.8	1527.7	1504.7	1479.4	1447.3	1412.8	1371.5	1327.8
62.5°	1851.6	1851.6	1837.8	1821.7	1801.1	1771.2	1736.7	1695.4	1647.1	1594.3	1541.5
60°	2182.4	2182.4	2166.3	2145.6	2115.8	2079.0	2033.1	1980.2	1920.5	1853.9	1789.6
57.5°	2563.7	2563.7	2543.1	2515.5	2478.7	2432.8	2375.4	2308.7	2232.9	2150.2	2069.8
55°	2977.2	2977.2	2952.0	2919.8	2876.2	2821.0	2752.1	2674.0	2582.1	2487.9	2384.6
52.5°	3416.0	3416.0	3386.2	3349.4	3298.9	3234.5	3156.4	3064.5	2958.9	2848.6	2726.8
50°	3877.8	3877.8	3843.3	3802.0	3744.5	3668.7	3579.1	3473.5	3356.3	3227.6	3087.5
47.5°	4371.7	4371.7	4332.6	4284.4	4215.5	4128.2	4022.5	3900.7	3767.5	3622.8	3464.3
45°	4879.4	4879.4	4835.7	4780.6	4704.8	4606.0	4488.8	4371.7	4201.7	4034.0	3850.2
42.5°	5407.7	5407.7	5357.2	5295.2	5207.9	5099.9	4966.7	4815.1	4647.4	4459.0	4259.1
40°	5956.8	5956.8	5899.4	5828.1	5731.7	5607.6	5458.3	5288.3	5099.9	4890.9	4670.3
37.5°	6517.3	6517.3	6453.0	6374.9	6266.9	6129.1	5961.4	5773.0	5561.7	5329.6	5086.1
35°	7082.4	7082.4	7011.2	6926.2	6806.8	6655.2	6473.7	6264.6	6030.3	5777.6	5504.2
32.5°	7659.1	7659.1	7581.0	7484.5	7348.9	7181.2	6981.4	6753.9	6517.3	6223.3	5924.6
30°	8228.8	8228.8	8143.8	8038.1	7893.4	7709.6	7491.4	7241.0	6963.0	6662.0	6340.4
27.5°	8789.3	8766.3	8695.1	8582.6	8424.0	8228.8	7992.2	7721.1	7420.1	7089.3	6744.8
25°	9340.7	9315.4	9237.3	9113.2	8943.2	8729.6	8474.6	8185.1	7861.2	7512.0	7135.3
22.5°	9869.0	9841.5	9758.8	9625.5	9444.0	9212.0	8938.6	8628.5	8283.9	7909.5	7512.0
20°	10358.3	10328.5	10243.5	10103.3	9915.0	9669.2	9379.7	9046.6	8679.0	8283.9	7861.2
17.5°	10799.4	10769.5	10680.0	10535.2	10358.3	10085.0	9786.3	9434.8	9046.6	8628.5	8185.1
15°	11187.6	11155.5	11063.6	10918.9	10716.7	10459.4	10144.7	9786.3	9379.7	8938.6	8474.6
12.5°	11518.5	11486.3	11392.1	11247.4	11038.3	10781.0	10459.4	10085.0	9669.2	9212.0	8729.6
10°	11780.3	11748.2	11658.6	11520.8	11304.8	11038.3	10716.7	10358.3	9915.0	9444.0	8943.2
7.5°	11968.7	11938.9	11856.2	11718.3	11520.8	11247.4	10918.9	10535.2	10103.3	9625.5	9113.2
5°	12111.1	12076.7	11994.0	11856.2	11658.6	11392.1	11063.6	10680.0	10243.5	9758.8	9237.3
2.5°	12209.9	12168.6	12076.7	11938.9	11748.2	11486.3	11155.5	10769.5	10328.5	9841.5	9315.4
0°	12237.5	12209.9	12111.1	11968.7	11780.3	11518.5	11187.6	10799.4	10358.3	9869.0	9340.7

REPORT NUMBER: P623877

CATALOG NUMBER: IFLD-S-SA3D-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°	82.7	82.7	80.4	78.1	75.8	71.2	68.9	66.6	64.3	59.7	57.4
85°	174.6	170.0	165.4	160.8	153.9	149.3	142.4	137.8	130.9	124.1	117.2
82.5°	275.7	268.8	259.6	252.7	243.5	232.0	222.8	211.3	199.9	190.7	179.2
80°	385.9	374.5	363.0	351.5	337.7	323.9	310.1	296.3	280.3	264.2	248.1
77.5°	505.4	489.3	473.2	454.9	438.8	420.4	402.0	383.6	363.0	342.3	321.6
75°	638.6	618.0	595.0	572.0	551.3	526.1	500.8	475.5	448.0	422.7	395.1
72.5°	783.4	758.1	730.5	703.0	673.1	640.9	608.8	574.3	542.2	510.0	475.5
70°	939.6	909.7	875.3	840.8	804.0	765.0	725.9	684.6	643.2	601.9	560.5
67.5°	1107.3	1070.5	1029.2	987.8	941.9	895.9	850.0	801.7	751.2	700.7	652.4
65°	1286.5	1240.5	1192.3	1139.4	1086.6	1033.8	978.6	921.2	863.8	804.0	751.2
62.5°	1486.3	1428.9	1366.9	1302.5	1242.8	1178.5	1118.8	1047.5	978.6	912.0	845.4
60°	1718.3	1642.5	1566.7	1486.3	1410.5	1327.8	1254.3	1176.2	1098.1	1022.3	944.2
57.5°	1977.9	1881.5	1789.6	1693.1	1592.0	1500.1	1405.9	1311.7	1224.4	1134.8	1049.8
55°	2272.0	2154.8	2040.0	1920.5	1803.3	1688.5	1569.0	1463.4	1355.4	1254.3	1155.5
52.5°	2593.6	2460.4	2317.9	2182.4	2033.1	1890.6	1757.4	1624.2	1497.8	1376.1	1263.5
50°	2938.2	2782.0	2618.9	2453.5	2283.5	2115.8	1955.0	1798.8	1651.7	1509.3	1376.1
47.5°	3296.6	3119.7	2933.6	2745.2	2563.7	2359.3	2166.3	1989.4	1812.5	1651.7	1497.8
45°	3664.1	3464.3	3259.8	3046.2	2832.5	2612.0	2398.3	2182.4	1989.4	1798.8	1624.2
42.5°	4043.2	3818.0	3590.6	3354.0	3117.4	2876.2	2635.0	2398.3	2166.3	1955.0	1757.4
40°	4433.7	4185.6	3926.0	3668.7	3416.0	3140.4	2876.2	2612.0	2359.3	2115.8	1890.6
37.5°	4824.2	4553.2	4272.9	3983.4	3694.0	3416.0	3117.4	2832.5	2563.7	2283.5	2033.1
35°	5217.1	4918.4	4615.2	4300.5	3983.4	3668.7	3354.0	3046.2	2745.2	2453.5	2182.4
32.5°	5612.2	5286.0	4950.6	4615.2	4272.9	3926.0	3590.6	3259.8	2933.6	2618.9	2317.9
30°	6000.4	5646.7	5286.0	4918.4	4553.2	4185.6	3818.0	3464.3	3119.7	2782.0	2460.4
27.5°	6379.5	6000.4	5612.2	5217.1	4824.2	4433.7	4043.2	3664.1	3296.6	2938.2	2593.6
25°	6744.8	6340.4	5924.6	5504.2	5086.1	4670.3	4259.1	3850.2	3464.3	3087.5	2726.8
22.5°	7089.3	6662.0	6223.3	5777.6	5329.6	4890.9	4459.0	4034.0	3622.8	3227.6	2848.6
20°	7420.1	6963.0	6517.3	6030.3	5561.7	5099.9	4647.4	4201.7	3767.5	3356.3	2958.9
17.5°	7721.1	7241.0	6753.9	6264.6	5773.0	5288.3	4815.1	4371.7	3900.7	3473.5	3064.5
15°	7992.2	7491.4	6981.4	6473.7	5961.4	5458.3	4966.7	4488.8	4022.5	3579.1	3156.4
12.5°	8228.8	7709.6	7181.2	6655.2	6129.1	5607.6	5099.9	4606.0	4128.2	3668.7	3234.5
10°	8424.0	7893.4	7348.9	6806.8	6266.9	5731.7	5207.9	4704.8	4215.5	3744.5	3298.9
7.5°	8582.6	8038.1	7484.5	6926.2	6374.9	5828.1	5295.2	4780.6	4284.4	3802.0	3349.4
5°	8695.1	8143.8	7581.0	7011.2	6453.0	5899.4	5357.2	4835.7	4332.6	3843.3	3386.2
2.5°	8766.3	8228.8	7659.1	7082.4	6517.3	5956.8	5407.7	4879.4	4371.7	3877.8	3416.0
0°	8789.3	8228.8	7659.1	7082.4	6517.3	5956.8	5407.7	4879.4	4371.7	3877.8	3416.0

REPORT NUMBER: P623877

CATALOG NUMBER: IFLD-S-SA3D-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°	55.1	50.5	45.9	43.6	39.1	36.8	32.2	27.6	25.3	20.7	16.1
85°	110.3	101.1	94.2	87.3	80.4	71.2	64.3	57.4	48.2	41.4	32.2
82.5°	167.7	156.2	144.7	133.2	121.8	110.3	96.5	85.0	73.5	62.0	48.2
80°	232.0	213.6	197.6	181.5	165.4	149.3	130.9	114.9	96.5	80.4	64.3
77.5°	298.6	278.0	255.0	232.0	209.1	188.4	165.4	144.7	124.1	101.1	80.4
75°	369.9	342.3	317.0	287.2	259.6	229.7	202.2	174.6	149.3	124.1	96.5
72.5°	443.4	408.9	374.5	342.3	307.8	273.4	241.2	206.8	174.6	144.7	114.9
70°	519.2	477.8	436.5	397.4	358.4	317.0	280.3	241.2	202.2	165.4	130.9
67.5°	599.6	551.3	503.1	452.6	408.9	363.0	317.0	273.4	229.7	188.4	149.3
65°	686.9	629.4	569.7	516.9	459.5	408.9	358.4	307.8	259.6	209.1	165.4
62.5°	776.5	709.9	643.2	576.6	516.9	452.6	397.4	342.3	287.2	232.0	181.5
60°	868.4	792.6	716.7	643.2	569.7	503.1	436.5	374.5	317.0	255.0	197.6
57.5°	962.6	877.6	792.6	709.9	629.4	551.3	477.8	408.9	342.3	278.0	213.6
55°	1059.0	962.6	868.4	776.5	686.9	599.6	519.2	443.4	369.9	298.6	232.0
52.5°	1155.5	1049.8	944.2	845.4	751.2	652.4	560.5	475.5	395.1	321.6	248.1
50°	1254.3	1134.8	1022.3	912.0	804.0	700.7	601.9	510.0	422.7	342.3	264.2
47.5°	1355.4	1224.4	1098.1	978.6	863.8	751.2	643.2	542.2	448.0	363.0	280.3
45°	1463.4	1311.7	1176.2	1047.5	921.2	801.7	684.6	574.3	475.5	383.6	296.3
42.5°	1569.0	1405.9	1254.3	1118.8	978.6	850.0	725.9	608.8	500.8	402.0	310.1
40°	1688.5	1500.1	1327.8	1178.5	1033.8	895.9	765.0	640.9	526.1	420.4	323.9
37.5°	1803.3	1592.0	1410.5	1242.8	1086.6	941.9	804.0	673.1	551.3	438.8	337.7
35°	1920.5	1693.1	1486.3	1302.5	1139.4	987.8	840.8	703.0	572.0	454.9	351.5
32.5°	2040.0	1789.6	1566.7	1366.9	1192.3	1029.2	875.3	730.5	595.0	473.2	363.0
30°	2154.8	1881.5	1642.5	1428.9	1240.5	1070.5	909.7	758.1	618.0	489.3	374.5
27.5°	2272.0	1977.9	1718.3	1486.3	1286.5	1107.3	939.6	783.4	638.6	505.4	385.9
25°	2384.6	2069.8	1789.6	1541.5	1327.8	1144.0	971.7	808.6	657.0	519.2	395.1
22.5°	2487.9	2150.2	1853.9	1594.3	1371.5	1176.2	999.3	831.6	675.4	533.0	404.3
20°	2582.1	2232.9	1920.5	1647.1	1412.8	1208.4	1022.3	852.3	691.5	544.5	413.5
17.5°	2674.0	2308.7	1980.2	1695.4	1447.3	1235.9	1045.3	868.4	705.3	553.6	420.4
15°	2752.1	2375.4	2033.1	1736.7	1479.4	1258.9	1063.6	884.4	716.7	562.8	425.0
12.5°	2821.0	2432.8	2079.0	1771.2	1504.7	1279.6	1082.0	898.2	728.2	569.7	431.9
10°	2876.2	2478.7	2115.8	1801.1	1527.7	1295.7	1093.5	909.7	735.1	576.6	436.5
7.5°	2919.8	2515.5	2145.6	1821.7	1543.8	1309.4	1105.0	916.6	742.0	581.2	443.4
5°	2952.0	2543.1	2166.3	1837.8	1557.5	1325.5	1118.8	928.1	751.2	588.1	443.4
2.5°	2977.2	2563.7	2182.4	1851.6	1566.7	1325.5	1118.8	928.1	751.2	588.1	443.4
0°	2977.2	2563.7	2182.4	1851.6	1566.7	1325.5	1118.8	928.1	751.2	588.1	443.4

REPORT NUMBER: P623877

CATALOG NUMBER: IFLD-S-SA3D-730-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.5	9.2	4.6	0.0
85°	25.3	16.1	9.2	0.0
82.5°	36.8	25.3	11.5	0.0
80°	48.2	32.2	16.1	0.0
77.5°	62.0	41.4	20.7	0.0
75°	73.5	48.2	25.3	0.0
72.5°	85.0	57.4	27.6	0.0
70°	96.5	64.3	32.2	0.0
67.5°	110.3	71.2	36.8	0.0
65°	121.8	80.4	39.1	0.0
62.5°	133.2	87.3	43.6	0.0
60°	144.7	94.2	45.9	0.0
57.5°	156.2	101.1	50.5	0.0
55°	167.7	110.3	55.1	0.0
52.5°	179.2	117.2	57.4	0.0
50°	190.7	124.1	59.7	0.0
47.5°	199.9	130.9	64.3	0.0
45°	211.3	137.8	66.6	0.0
42.5°	222.8	142.4	68.9	0.0
40°	232.0	149.3	71.2	0.0
37.5°	243.5	153.9	75.8	0.0
35°	252.7	160.8	78.1	0.0
32.5°	259.6	165.4	80.4	0.0
30°	268.8	170.0	82.7	0.0
27.5°	275.7	174.6	82.7	0.0
25°	282.6	179.2	85.0	0.0
22.5°	289.5	181.5	87.3	0.0
20°	296.3	186.1	89.6	0.0
17.5°	300.9	188.4	89.6	0.0
15°	305.5	190.7	94.2	0.0
12.5°	307.8	193.0	94.2	0.0
10°	312.4	197.6	94.2	0.0
7.5°	317.0	197.6	94.2	0.0
5°	317.0	197.6	94.2	0.0
2.5°	317.0	197.6	94.2	0.0
0°	317.0	197.6	94.2	0.0

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